



State of Ohio Environmental Protection Agency

Street Address:

Lazarus Gov. Center
50 West Town Street, Suite 700
Columbus, OH 43215

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

Mailing Address:

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

02/21/08

CERTIFIED MAIL

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

03-06-00-0133
The Minster Machine Company
Lisa Stroh Ms.
240 West Fifth Street
Minster, OH 45865-1065

Dear Lisa Stroh:

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. The appeal must be filed with the Commission within thirty (30) days after notice of the Director's action. The appeal must be accompanied by a filing fee of \$70.00 which the Commission, in its discretion, may reduce if by affidavit you demonstrate that payment of the full amount of the fee would cause extreme hardship. Notice of the filing of the appeal shall be filed with the Director within three (3) days of filing with the Commission. Ohio EPA requests that a copy of the appeal be served upon the Ohio Attorney General's Office, Environmental Enforcement Section. An appeal may be filed with the Environmental Review Appeals Commission at the following address:

Environmental Review Appeals Commission
309 South Fourth Street, Room 222
Columbus, OH 43215

If you have any questions, please contact Northwest District Office.

Sincerely,

Michael W. Ahern
Permit Issuance and Data Management Section
Division of Air Pollution Control

cc: Northwest District Office
File, DAPC PIER



State of Ohio Environmental Protection Agency

FINAL TITLE V PERMIT

Issue Date: 02/21/08

Effective Date: 03/13/08

Expiration Date: 03/13/13

This document constitutes issuance of a Title V permit for Facility ID: 03-06-00-0133 to:

The Minster Machine Company
240 West Fifth Street
Minster, OH 45865-1065

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

Table with 3 columns: Emissions Unit ID (Company ID), Emissions Unit Activity Description, and Emissions Unit Activity Description. Rows include F001 (Metal Scrap and Charge Handling), F002 (Iron pouring and cooling), F005 (Core/Mold making), K001 (Component Rebuild Paint Spray Booth), K002 (Weld Shop Paint Booth), K003 (MIC Paint Spray Booth), P006 (Weld Shop Shot Blast with Baghouse), weldments, P012 (MIC Shakeout), P013 (Carborundum Shot Blast), P020 (Sand System #2), P021 (Sand System #3), P026 (Carborundum Shot Blast MIC 34 PN), P914 (Ajax Electric Furnace--North Furnace), P928 (Ajax Electric Furnace--South), R001 (Spray Booth, South Paint Room), R002 (Spray Booths--South Paint Room), R003 (Paint Spray Booth--West Assembly Floor), R005 (Paint Spray Booth--Large Assembly, East), and R006 (Core Wash).

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 3745-77-08(E) and in accordance with the terms of this permit beyond the expiration date, provided that a complete renewal application is submitted no earlier than eighteen (18) months and no later than one-hundred eighty (180) days prior to the expiration date.

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

Northwest District Office
347 North Dunbridge Road
Bowling Green, OH 43402
(419) 352-8461

Ohio Environmental Protection Agency

Chris Korleski
Director

PART I - GENERAL TERMS AND CONDITIONS

A. State and Federally Enforceable Section

1. Monitoring and Related Record Keeping and Reporting Requirements

a. Except as may otherwise be provided in the terms and conditions for a specific emissions unit, i.e., in Section A.III of Part III of this Title V permit, 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.
(Authority for term: OAC rule 3745-77-07(A)(3)(b)(i))

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.

(Authority for term: OAC rule 3745-77-07(A)(3)(b)(ii))

c. The permittee shall submit required reports in the following manner:

i. **All reporting required in accordance with OAC rule 3745-77-07(A)(3)(c) for deviations caused by malfunctions shall be submitted in the following manner:**

Any malfunction, as defined in OAC rule 3745-15-06(B)(1), shall be promptly reported to the Ohio EPA in accordance with OAC rule 3745-15-06. In addition, to fulfill the OAC rule 3745-77-07(A)(3)(c) deviation reporting requirements for malfunctions, written reports that identify each malfunction that occurred during each calendar quarter (including each malfunction reported only verbally in accordance with OAC rule 3745-15-06) shall be submitted (i.e., postmarked) by January 31, April 30, July 31, and October 31 of each year in accordance with General Term and Condition A.1.c.ii below; and each report shall cover the previous calendar quarter. (An exceedance of the visible emission limitations specified in OAC rule 3745-17-07(A)(1) that is caused by a malfunction is not a violation and does not need to be reported as a deviation if the owner or operator of the affected air contaminant source or air pollution control equipment complies with the requirements of OAC rule 3745-17-07(A)(3)(c).)

In accordance with OAC rule 3745-15-06, a malfunction reportable under OAC rule 3745-15-06(B) constitutes a violation of an emission limitation (or control requirement) and, therefore, is a deviation of the federally enforceable permit requirements. Even though verbal notifications and written reports are required for malfunctions pursuant to OAC rule 3745-15-06, the written reports required pursuant to this term must be submitted quarterly to satisfy the prompt reporting provision of OAC rule 3745-77-07(A)(3)(c).

In identifying each deviation caused by a malfunction, the permittee shall specify the emission limitation(s) (or control requirement(s)) for which the deviation occurred, describe each deviation, and provide the magnitude and duration of each deviation. For a specific malfunction, if this information has been provided in a written report that was submitted in accordance with

OAC rule 3745-15-06, the permittee may simply reference that written report to identify the deviation. Nevertheless, all malfunctions, including those reported only verbally in accordance with OAC rule 3745-15-06, must be reported in writing on a quarterly basis.

Any scheduled maintenance, as referenced in OAC rule 3745-15-06(A)(1), that results in a deviation from a federally enforceable emission limitation (or control requirement) shall be reported in the same manner as described above for malfunctions.

(Authority for term: OAC rule 3745-77-07(A)(3)(c))

- ii. **Except as may otherwise be provided in the terms and conditions for a specific emissions unit, i.e., in Section A.IV of Part III of this Title V permit or, in some cases, in Part II of this Title V permit, all reporting required in accordance with OAC rule 3745-77-07(A)(3)(c) for deviations of the emission limitations, operational restrictions, and control device operating parameter limitations shall be submitted in the following manner:**

Written reports of (a) any deviations from federally enforceable emission limitations, operational restrictions, and control device operating parameter limitations, (b) the probable cause of such deviations, and (c) any corrective actions or preventive measures taken, shall be promptly made to the appropriate Ohio EPA District Office or local air agency. Except as provided below, the written reports shall be submitted (i.e., postmarked) by January 31, April 30, July 31, and October 31 of each year; and each report shall cover the previous calendar quarter.

In identifying each deviation, the permittee shall specify the emission limitation(s), operational restriction(s), and/or control device operating parameter limitation(s) for which the deviation occurred, describe each deviation, and provide the estimated magnitude and duration of each deviation.

These written deviation reports shall satisfy the requirements of OAC rule 3745-77-07(A)(3)(c) pertaining to the submission of monitoring reports every six months and to the prompt reporting of all deviations. Full compliance with OAC rule 3745-77-07(A)(3)(c) requires reporting of all other deviations of the federally enforceable requirements specified in the permit as required by such rule.

If an emissions unit has a deviation reporting requirement for a specific emission limitation, operational restriction, or control device operating parameter limitation that is not on a quarterly basis (e.g., within 30 days following the end of the calendar month, or within 30 or 45 days after the exceedance occurs), that deviation reporting requirement satisfies the reporting requirements specified in this General Term and Condition for that specific emission limitation, operational restriction, or control device parameter limitation. Following the provisions of that non-quarterly deviation reporting requirement will also satisfy (for the deviations so reported) the requirements of OAC rule 3745-77-07(A)(3)(c) pertaining to the submission of monitoring reports every six months and to the prompt reporting of all deviations, and additional quarterly deviation reports for that specific emission limitation, operational restriction, or control device parameter limitation are not required pursuant to this General Term and Condition.

See B.6 below if no deviations occurred during the quarter.

(Authority for term: OAC rule 3745-77-07(A)(3)(c))

- iii. **All reporting required in accordance with the OAC rule 3745-77-07(A)(3)(c) for other deviations of the federally enforceable permit requirements which are not reported in accordance with General Term and Condition A.1.c.ii above shall be submitted in the following manner:**

Unless otherwise specified by rule, written reports that identify deviations of the following federally enforceable requirements contained in this permit; General Terms and Conditions: A.2, A.3, A.4, A.6.e, A.7, A.12, A.14, A.18, A.19, A.20, and A.22 of Part I of this Title V permit, as well as any deviations from the requirements in Section A.V or A.VI of Part III of this Title V permit, and any monitoring, record keeping, and reporting requirements, which are not

reported in accordance with General Term and Condition A.1.c.ii above shall be submitted (i.e., postmarked) to the appropriate Ohio EPA District Office or local air agency by January 31 and July 31 of each year; and each report shall cover the previous six calendar months. Unless otherwise specified by rule, all other deviations from federally enforceable requirements identified in this permit shall be submitted annually as part of the annual compliance certification, including deviations of federally enforceable requirements not specifically addressed by permit or rule for the insignificant activities or emissions levels (IEU) identified in Part II.A of this Title V permit. Annual reporting of deviations is deemed adequate to meet the deviation reporting requirements for IEUs unless otherwise specified by permit or rule.

In identifying each deviation, the permittee shall specify the federally enforceable requirement for which the deviation occurred, describe each deviation, and provide the magnitude and duration of each deviation.

These semi-annual and annual written reports shall satisfy the reporting requirements of OAC rule 3745-77-07(A)(3)(c) for any deviations from the federally enforceable requirements contained in this permit that are not reported in accordance with General Term and Condition A.1.c.ii above.

If no such deviations occurred during a six-month period, the permittee shall submit a semi-annual report which states that no such deviations occurred during that period.

(Authority for term: OAC rules 3745-77-07(A)(3)(c)(i) and (ii) and OAC rule 3745-77-07(A)(13)(b))

- 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 (including any written malfunction reports required by OAC rule 3745-15-06 that are referenced in the deviation reports) are true, accurate, and complete."
(Authority for term: OAC rule 3745-77-07(A)(3)(c)(iv))
- v. Reports of any required monitoring and/or record keeping information shall be submitted to the appropriate Ohio EPA District Office or local air agency.
(Authority for term: OAC rule 3745-77-07(A)(3)(c))

2. Scheduled Maintenance

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. Except as provided in OAC rule 3745-15-06(A)(3), any scheduled maintenance 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). Any scheduled maintenance, as defined in OAC rule 3745-15-06(A)(1), that results in a deviation from a federally enforceable emission limitation (or control requirement) shall be reported in the same manner as described for malfunctions in General Term and Condition A.1.c.i above.

(Authority for term: OAC rule 3745-77-07(A)(3)(c))

3. Risk Management Plans

If applicable, the permittee shall 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"); and, pursuant to 40 C.F.R. 68.215(a), the permittee shall submit either of the following:

- a. a compliance plan for meeting the requirements of 40 C.F.R. Part 68 by the date specified in 40 C.F.R. 68.10(a) and OAC 3745-104-05(A); or
- b. as part of the compliance certification submitted under 40 C.F.R. 70.6(c)(5), a certification statement that the source is in compliance with all requirements of 40 C.F.R. Part 68 and OAC Chapter 3745-104, including the registration and submission of the risk management plan.

(Authority for term: OAC rule 3745-77-07(A)(4))

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.
(Authority for term: OAC rule 3745-77-07(A)(5))

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.
(Authority for term: OAC rule 3745-77-07(A)(6))

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, in accordance with A.10 below. 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.
- f. Except as otherwise indicated below, this Title V permit, or permit modification, is effective for five years from the original effective date specified in the permit. In the event that this facility becomes eligible for non-title V permits, this permit shall cease to be enforceable upon final issuance of all applicable OAC Chapter 3745-35 operating permits and/or registrations for all subject emissions units located at the facility and:
 - i. the permittee submits an approved facility-wide potential to emit analysis supporting a claim that the facility no longer meets the definition of a "major source" as defined in OAC rule 3745-77-01(W) based on the permanent shutdown and removal of one or more emissions units identified in this permit; or
 - ii. the permittee no longer meets the definition of a "major source" as defined in OAC rule 3745-77-01(W) based on obtaining restrictions on the facility-wide potential(s) to emit that are federally enforceable or legally and practically enforceable ; or
 - iii. a combination of i. and ii. above.

The permittee shall comply with any residual requirements, such as quarterly deviation reports, semi-annual deviation reports, and annual compliance certifications covering the period during which this Title V permit was enforceable. All records relating to this permit must be maintained in accordance with law.

(Authority for term: OAC rule 3745-77-01(W), OAC rule 3745-77-07(A)(3)(b)(ii), OAC rule 3745-77(A)(7))

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.
(Authority for term: OAC rule 3745-77-07(A)(8))

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.
(Authority for term: OAC rule 3745-77-07(A)(9))

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.
(Authority for term: OAC rule 3745-77-07(A)(10))

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 (18) 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.

(Authority for term: OAC rules 3745-77-07(A)(12) and 3745-77-08(D))

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.

(Authority for term: OAC rule 3745-77-07(B))

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 Director (the appropriate Ohio EPA District Office or local air agency) and the Administrator of the U.S. EPA 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 (i.e., postmarked) 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.

(Authority for term: OAC rules 3745-77-07(C)(1),(2),(4) and (5) and ORC section 3704.03(L))

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.

(Authority for term: OAC rule 3745-77-07(F))

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).

(Authority for term: OAC rules 3745-77-07(H)(1) and (2))

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.

(Authority for term: OAC rule 3745-77-07(G))

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 of the U.S. EPA, except that no such notice shall be required for changes that qualify as insignificant emissions 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.
- 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.

(Authority for term: OAC rule 3745-77-07(I))

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.

(This term is provided for informational purposes only.)

18. Insignificant Activities or Emissions Levels

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

(Authority for term: OAC rule 3745-77-07(A)(1))

19. 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.

(Authority for term: OAC rule 3745-77-07(A)(1))

20. 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.

(Authority for term: OAC rule 3745-77-07(A)(1))

21. Permanent Shutdown of an Emissions Unit

The permittee may notify Ohio EPA of any emissions unit that is permanently shut down by submitting a certification from the responsible official that identifies the date on which the emissions unit was permanently shut down. Authorization to operate the affected emissions unit shall cease upon the date certified by the responsible official that the emissions unit was permanently shut down.

After the date on which an emissions unit is permanently shut down (i.e., that has been physically removed from service or has been altered in such a way that it can no longer operate without a subsequent "modification" or "installation" as defined in OAC Chapter 3745-31 and therefore ceases to meet the definition of an "emissions unit" as defined in OAC rule 3745-77-01(O)), rendering existing permit terms and conditions irrelevant, the permittee shall not be required, after the date of the certification and submission to Ohio EPA, to meet any Title V permit requirements applicable to that emissions unit, except for any residual requirements, such as the quarterly deviation reports, semi-annual deviation reports and annual compliance certification covering the period during which the emissions unit last operated. All records relating to the shutdown emissions unit, generated while the emissions unit was in operation, must be maintained in accordance with law.

No emissions unit certified by the responsible official as being permanently shut down may resume operation without first applying for and obtaining a permit to install pursuant to OAC Chapter 3745-31.

(Authority for term: OAC rule 3745-77-01)

22. Title VI Provisions

If applicable, the permittee shall comply with the standards for recycling and reducing emissions of ozone depleting substances pursuant to 40 CFR Part 82, Subpart F, except as provided for motor vehicle air conditioners in Subpart B of 40 CFR Part 82:

- a. Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices specified in 40 CFR 82.156.
- b. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment specified in 40 CFR 82.158.
- c. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161.

(Authority for term: OAC rule 3745-77-01(H)(11))

B. State Only Enforceable Section

1. Reporting Requirements Related to Monitoring and Record Keeping Requirements

The permittee shall submit required reports in the following manner:

- a. Reports of any required monitoring and/or record keeping 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 (i) any deviations (excursions) from emission limitations, operational restrictions, and control device operating parameter limitations that have been detected by the testing, monitoring, and record keeping requirements specified in this permit, (ii) the probable cause of such deviations, and (iii) 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. In identifying each deviation, the permittee shall specify the applicable requirement for which the deviation occurred, describe each deviation, and provide the magnitude and duration of each deviation. 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 (i.e., postmarked) quarterly, 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.)

2. 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.

3. 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.

4. 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).

5. 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.

6. 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 emission limitation (or control requirement), operational restriction and/or control device parameter limitation 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 (i.e., postmarked) by January 31, April 30, July 31, and October 31 of each year; and each report shall cover the previous calendar quarter.

The permittee is not required to submit a quarterly report which states that no deviations occurred during that quarter for the following situations:

- a. where an emissions unit has deviation reporting requirements for a specific emission limitation, operational restriction, or control device parameter limitation that override the deviation reporting requirements specified in General Term and Condition A.1.c.ii; or
- b. where an uncontrolled emissions unit has no monitoring, record keeping, or reporting requirements and the emissions unit's applicable emission limitations are established at the potentials to emit; or
- c. where the company's responsible official has certified that an emissions unit has been permanently shut down.

Part II - Specific Facility Terms and Conditions

A. State and Federally Enforceable Section

1. This facility is subject to the requirements of 40 CFR 63.3880 et seq. - MACT Subpart M MMM (See attachment A)

(Authority for term: OAC rule 3745-77-07(A)(13))

2. This facility is subject to the requirements of 40 CFR 63.7680 et seq. - MACT Subpart EEEEE (See attachment B)

(Authority for term: OAC rule 3745-77-07(A)(13))

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

B007 - weld shop air makeup unit
B016 - Aerovent 7.5 mmBtu air makeup (463) n.g.
B017 - Aerovent 7.5 mmBtu air makeup (464) n.g.
F003 - (E) Bench Chip and Grind (castings)
F004 - (G) Large Castings Cleaning, Grinding
P001 - tool grinder w/ dry cyclone
P009 - Holden heat treat furnace n.g.
P019 - Sand Handling System 1 - Truck Receiving
P023 - planer type miller machine, no. 1705
P025 - planer type miller machine, no. 1703
P029 - natural gas heat treat furnace #908 (PTI 03-6227)
Z005 - new machining bay
Z006 - east machining bay
Z007 - low machining bay
Z008 - center machining bay
Z009 - west machining bay
Z010 - assembly support
Z019 - Annex Machining Sources
Z073 - Weld Shop Machine Sources
Z074 - Lower Level Assembly Machine Sources
Z075 - Slide Department, Assembly, Machine Sources
Z077 - Tool Crib Machine Sources
Z090 - Solvent Cold CI Parts Washer #5, small assembly
Z092 - Solvent Cold Cleaner Parts Washer #10, Reman.
Z095 - Solvent Cold Cleaner Parts Washer #11, Reman
Z098 - Cleanup activities throughout facility

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

(Authority for term: OAC rule 3745-77-07(A)(13))

B. State Only Enforceable Section

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

B001 - south boiler room
B002 - office furnace
B009 - (2) oil fired makeup heaters; east end
B010 - (3) unit heaters; assembly
B013 - Johnson heater; press demo building
(B013 is 'de minimis' - PTI 03-1040 established no emissions requirements)
B014 - Johnson heater; annex
(B014 is 'de minimis' - PTI 03-800 established no emissions requirements)
B015 - Johnson heater; panel shop
(B015 is 'de minimis' - PTI 03-782 established no emissions requirements)
Z013 - Flaskless Molding Line Core Wash Dryer
Z014 - Gruenberg small core mold wash dryer
Z015 - Castec medium and large core wash dryer
Z016 - DESA Core Wash Dryer #1 (BNG-105T)
Z017 - DESA Core Wash Dryer #2 (BNG-105T)
Z018 - DESA Core Wash Dryer #3 (BNG-105T)
Z020 - Pattern Shop Woodworking
Z021 - Arc Welder, Assembly Weld Booth Millermatic 250
Z022 - Arc Welder, Assembly Weld Thermal Arc, PAK 5XR
Z023 - Arc Welder, Assembly Weld Booth Hobart M-250
Z024 - Arc Welder, Machine Shop Weld Booth
Z025 - Arc Welder, Frame Cell
Z026 - Arc Welder, Reman Weld Hobart, Mega-Arc 600
Z027 - Arc Welder, Reman Weld Booth Millermatic 200
Z028 - Arc Welder, Panel Shop, Storage Linde, V-650
Z029 - Arc Welder, Panel Shop, Storage Equip. No. 882
Z030 - Arc Welder, MIC Weld Booth Equip. No. 956
Z031 - Arc Welder, MIC 4 in 1
Z032 - Arc Welder, MIC Maint. Portable DC Inverter 400S
Z033 - Arc Welder, MIC Maint. Portable Equip No. 978
Z034 - Arc Welder, Weld Shop, W41 Equip. No. 890
Z035 - Arc Welder, Weld Shop, W41 Equip. No. 881
Z036 - Arc Welder, Weld Shop W24
Z037 - Arc Welder, Weld Shop, Feed Roll
Z038 - Arc Welder, Weld Shop, Portable

B. State Only Enforceable Section (continued)

- Z039 - Arc Welder, Weld Shop, W81
- Z040 - Arc Welder, Weld Shop Portable Hobart, RC-250
- Z041 - Arc Welder, Ultraflex 350; Equip. No. 892
- Z042 - Arc Welder, Weld Shop, W51
- Z043 - Arc Welder, Weld Shop POS 969 Equip. No. 956
- Z044 - Arc Welder, Weld Shop POS 969 Equip. No. 877
- Z045 - Arc Welder, Weld Shop POS 969 Equip. No. 933
- Z046 - Arc Welder, Weld Shop, M.S. Equip. No .976
- Z047 - Arc Welder, Weld Shop, M.S. Equip. No. 875
- Z048 - Arc Welder, Weld Shop, Portable Equip. No. 918
- Z049 - Arc Welder, Weld Shop, Pos. 850
- Z050 - Arc Welder, Weld Shop, Pos. 968 Equip. No. 937
- Z051 - Arc Welder, Weld Shop, Pos. 968 Equip. No. 971
- Z052 - Arc Welder, Weld Shop, Pos. 926 Equip. No. 957
- Z053 - Arc Welder, Weld Shop, Pos. 926 Equip. No. 878
- Z054 - Arc Welder, Weld Shop, Pos. 935
- Z055 - Arc Welder, Weld Shop, Pos. 940
- Z056 - Arc Welder, Weld Shop, Large Assy Equip. No. 977
- Z057 - Arc Welder, Weld Shop, Large Assy Equip. No. 917
- Z058 - Foam Packaging
- Z059 - Two 1650 gal above-ground storage tanks for catalyst
- Z060 - Two 3500 gal aboveground storage tanks for binder
- Z061 - 3.9 MMBtu/hr Air Makeup Unit n.g.
- Z062 - 3.9 MMBtu/hr Air Makeup Unit. n.g.
- Z063 - 150 mBtu/hr portable drying oven - core, mold n.g.
- Z064 - 150 mBtu/hr portable drying oven - core, mold n.g.
- Z065 - 150 mBtu/hr portable drying oven - core, mold n.g.
- Z066 - 150 mBtu/hr portable drying oven - core, mold n.g.
- Z067 - 150 mBtu/hr portable drying oven - core, mold n.g.
- Z068 - 150 mBtu/hr portable drying oven - core, mold n.g.
- Z069 - 150 mBtu/hr portable drying oven - core, mold n.g.
- Z070 - 150 mBtu/hr portable drying oven - core, mold n.g.
- Z071 - 150 mBtu/hr portable drying oven - core, mold n.g.
- Z072 - Miller Dimension Series Welder, Model Dim 652, S

- Z076 - Heat Treat Furnace, North End
- Z078 - Pattern Shop: Coating and Cleanup
- Z079 - Lubricant Use throughout facility
- Z080 - Adhesive Use throughout facility
- Z081 - VNG6-3000 Pressure Washer
- Z082 - Parts Washer Booth, Component Rebuild
- Z083 - Solvent Cold Cleaner Parts Washer #1, Maintenance
- Z084 - Solvent Cold Cleaner Parts Washer #4, Crown Cell
- Z086 - Solvent Cold CI Parts Washer #7, Aasy Pipe Thread
- Z087 - Solvent Cold Cleaner Parts Washer #3, Slide
- Z088 - Solvent Cold Cleaner Parts Washer #2, Slide
- Z089 - Solvent Cold Cleaner Parts Washer #6, small assy
- Z094 - Solvent Cold Cleaner Parts Washer #13, Reman.
- Z096 - Solvent Cold Cleaner Parts Washer #12, Reman.
- Z097 - Solvent Cold Cleaner Parts Washer #15, Reman.
- Z099 - Core drier.

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Metal Scrap and Charge Handling (F001)
Activity Description: Metal scrap and charge handling

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>
Metal Scrap and Charge Handling	OAC rule 3745-17-08(B)	none (See A.I.2.a)
	OAC rule 3745-17-07(B)	none (See A.I.2.b)

2. **Additional Terms and Conditions**

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

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

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>
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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: Iron pouring and cooling (F002)
Activity Description: Gray iron pouring and cooling

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>
Iron Pouring and Cooling	OAC rule 3745-17-08(B)	none (See A.I.2.a)
	OAC rule 3745-17-07(B)	none (See A.I.2.b)
	OAC rule 3745-21-07	none (See A.I.2.c)

2. Additional Terms and Conditions

- 2.a The emissions unit is not located within an "Appendix A" area as identified in OAC rule 3745-17-08. Therefore, pursuant to OAC rule 3745-17-08(A), this emissions unit is exempt from the requirements of OAC rule 3745-17-08(B).
- 2.b This emissions unit is exempt from the visible emissions limitation specified in OAC rule 3745-17-07(B), pursuant to OAC rule 3745-17-07(B)(11)(e).
- 2.c This emissions unit does emit organic compounds, but is not subject to the requirements specified in OAC rule 3745-21-07(G) because no liquid organic material, as defined in OAC rule 3745-21-01(C)(3), enters the pouring and cooling operation as a separate raw material.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

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>
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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: Core/Mold making (F005)

Activity Description: Core and mold making for castings; formerly source P030

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>
Sand / Binder Mixing for Core / Mold Forming	OAC rule 3745-17-08(B)	none (See A.I.2.a)
	OAC rule 3745-17-07(B)	none (See A.I.2.b)
	OAC rule 3745-21-07	none (See A.I.2.c)

2. Additional Terms and Conditions

- 2.a The emissions unit is not located within an "Appendix A" area as identified in OAC rule 3745-17-08. Therefore, pursuant to OAC rule 3745-17-08(A), this emissions unit is exempt from the requirements of OAC rule 3745-17-08(B).
- 2.b This emissions unit is exempt from the visible emissions limitation specified in OAC rule 3745-17-07(B), pursuant to OAC rule 3745-17-07(B)(11)(e).
- 2.c This emissions unit is not subject to OAC rule 3745-21-07(G)(2) as determined by the Ohio Supreme Court in Ashland Chem. Co. v. Jones (2001), 92 Ohio St.3.d 234, i.e. this emissions unit does not employ, apply, evaporate or dry liquid organic materials.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

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>
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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: Component Rebuild Paint Spray Booth (K001)
Activity Description: Paint spray booth to coat miscellaneous metal parts

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>
Component Rebuild Spray Coating Operation (air and airless spray - metal parts)	OAC rule 3745-21-09(U)(2)(e)(iii)	See A.I.2.a
	OAC rule 3745-31-05(A)(3) (PTI 03-7704 issued January 20, 1994)	50.4 lbs volatile organic compounds (VOC) /day (including cleanup), and 9.20 tons VOC /year
	40 CFR 63.3880 et seq.	See Part II - Specific Facility Terms and Conditions
	OAC rule 3745-17-11(B)(2)	none (See A.I.2.b)
	OAC rule 3745-17-07(A)	none (See A.I.2.c)

2. Additional Terms and Conditions

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

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following information each day for this emissions unit:
 - a. The name and identification number of each coating and cleanup material employed.
 - b. The VOC content of each coating and cleanup material employed, in pounds per gallon, as applied.
 - c. The number of gallons of each coating and cleanup material employed.
 - d. The total number of gallons of all the coatings employed.
 - e. The total VOC emissions from all the coatings and cleanup materials employed, in pounds [i.e., the sum of (b) times (c) for all coatings and cleanup materials employed].
[OAC rules 3745-31-05(A)(3) and 3745-77-07(C)(1)]

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.
[OAC rules 3745-31-05(A)(3) and 3745-77-07(C)(1)]
2. The permittee shall submit quarterly deviation (excursion) reports that identify all exceedances of the daily VOC emission limitation of 50.4 pounds. These reports shall be submitted in accordance with paragraph A.1.c of this permit's General Terms and Conditions.
[OAC rules 3745-31-05(A)(3) and 3745-77-07(C)(1)]

V. Testing Requirements

1. Compliance with the emission limitation(s) in section A.I. of the terms and conditions of this permit shall be determined in accordance with the following method(s):
 - 1.a Emissions Limitation:
10 gallons per day total coating usage

Applicable Compliance Method:
Compliance shall be based upon the record keeping specified in Section A.III.1.d.
[OAC rules 3745-31-05(A)(3) and 3745-77-07(C)(1)]
 - 1.b Emissions Limitation:
50.4 lbs per day of VOC emissions from coatings and cleanup materials

Applicable Compliance Method:
Compliance shall be based upon the record keeping specified in Section A.III.1.
[OAC rules 3745-31-05(A)(3) and 3745-77-07(C)(1)]
 - 1.c Emissions Limitation:
9.20 tons VOC / year (including cleanup)

Applicable Compliance Method:
The annual allowable VOC limitation was developed by multiplying the daily limitation by 365, and then dividing by 2000. Therefore, as long as compliance with the daily limitation is shown, compliance with the annual limitation shall be assumed.
[OAC rules 3745-31-05(A)(3) and 3745-77-07(C)(1)]
2. Formulation data or USEPA Method 24 shall be used to determine the VOC contents of all the coatings and cleanup materials.
[OAC rules 3745-31-05(A)(3) and 3745-77-07(C)(1)]

Facility Name: **The Minster Machine Company**
Facility ID: **03-06-00-0133**
Emissions Unit: **Component Rebuild Paint Spray Booth (K001)**

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>
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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: Weld Shop Paint Booth (K002)

Activity Description: Paint spray booth to coat miscellaneous metal parts

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>
Weld Shop Spray Coating Operation (air and airless spray - metal parts)	OAC rule 3745-21-09(U)(1)(d)	3.5 pounds of VOC per gallon of coating, excluding water and exempt solvents, for any coating that is dried at temperatures not exceeding two hundred degrees Fahrenheit
	OAC rule 3745-31-05(A)(3) (PTI 03-8198 issued December 7, 1994)	90.0 lbs volatile organic compounds (VOC) /day (including cleanup), and 16.4 tons VOC /year
	40 CFR 63.3880 et seq.	See Part II - Specific Facility Terms and Conditions
	OAC rule 3745-17-11(B)(2)	none (See A.1.2.a)
	OAC rule 3745-17-07(A)	none (See A.1.2.b)

2. Additional Terms and Conditions

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

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following information each day for this emissions unit:
 - a. The name and identification number of each coating and cleanup material employed.
 - b. The VOC content of each coating and cleanup material, as applied, in pounds per gallon.
 - c. The VOC content of each coating (excluding water and exempt solvents), in pounds per gallon, as applied [the VOC content shall be calculated in accordance with the equation specified in paragraph (B)(8) of OAC rule 3745-21-10 for CVOC,2].
 - d. The number of gallons of each coating and cleanup material employed.
 - e. The VOC emission rate for each coating (b. x d.), in pounds.

Note: The information required above must be recorded for the materials as applied, including any thinning solvents added at the emissions unit.
[OAC rules 3745-31-05(A)(3) and 3745-77-07(C)(1)]

IV. Reporting Requirements

1. The permittee shall notify the Director of any monthly record showing the use of noncomplying coatings. A copy of such record shall be sent to the Director within 30 days following the end of the calendar month.
[OAC rules 3745-31-05(A)(3) and 3745-77-07(C)(1)]
2. The permittee shall submit quarterly deviation (excursion) reports that identify all exceedances of the daily VOC emission limitation of 90.0 pounds. These reports shall be submitted in accordance with paragraph A.1.c of this permit's General Terms and Conditions.
[OAC rules 3745-31-05(A)(3) and 3745-77-07(C)(1)]

V. Testing Requirements

1. Compliance with the emission limitation(s) in section A.I. of the terms and conditions of this permit shall be determined in accordance with the following method(s):
 - 1.a Emission Limitations:
3.5 pounds VOC per gallon of coating, excluding water and exempt solvents

Applicable Compliance Method:
Compliance shall be based upon the record keeping requirements in section A.III.1.c.
[OAC rules 3745-31-05(A)(3) and 3745-77-07(C)(1)]
 - 1.b Emissions Limitation:
90.0 lbs per day of VOC emissions from coatings and cleanup materials

Applicable Compliance Method:
Compliance shall be based upon the record keeping specified in Section A.III.1.
[OAC rules 3745-31-05(A)(3) and 3745-77-07(C)(1)]
 - 1.c Emissions Limitation:
16.4 tons VOC / year (including cleanup)

Applicable Compliance Method:
The annual allowable VOC limitation was developed by multiplying the daily limitation by 365, and then dividing by 2000. Therefore, as long as compliance with the daily limitation is shown, compliance with the annual limitation shall be assumed.
[OAC rules 3745-31-05(A)(3) and 3745-77-07(C)(1)]
2. Formulation data or USEPA Method 24 shall be used to determine the VOC contents of all the coatings and cleanup materials.
[OAC rules 3745-31-05(A)(3) and 3745-77-07(C)(1)]

Facility Name: **The Minster Machine Company**

Facility ID: **03-06-00-0133**

Emissions Unit: **Weld Shop Paint Booth (K002)**

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>
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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: MIC Paint Spray Booth (K003)

Activity Description: Paint spray booth to coat miscellaneous metal parts

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>
MIC Spray Coating Operation (air and airless spray - metal castings and parts)	OAC rule 3745-21-09(U)(1)(d)	3.5 pounds of VOC per gallon of coating, excluding water and exempt solvents, for any coating that is dried at temperatures not exceeding two hundred degrees Fahrenheit
	OAC rule 3745-31-05(A)(3) (PTI 03-8198 issued December 7, 1994)	90.0 lbs volatile organic compounds (VOC) /day (including cleanup), and 16.4 tons VOC /year
	40 CFR 63.3880 et seq.	See Part II - Specific Facility Terms and Conditions
	OAC rule 3745-17-11(B)(2)	none (See A.1.2.a)
	OAC rule 3745-17-07(A)	none (See A.1.2.b)

2. Additional Terms and Conditions

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

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following information each day for this emissions unit:
 - a. The name and identification number of each coating and cleanup material employed.
 - b. The VOC content of each coating and cleanup material, as applied, in pounds per gallon.
 - c. The VOC content of each coating (excluding water and exempt solvents), in pounds per gallon, as applied [the VOC content shall be calculated in accordance with the equation specified in paragraph (B)(8) of OAC rule 3745-21-10 for CVOC,2].
 - d. The number of gallons of each coating and cleanup material employed.
 - e. The VOC emission rate for each coating (b. x d.), in pounds.

Note: The information required above must be recorded for the materials as applied, including any thinning solvents added at the emissions unit.

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

IV. Reporting Requirements

1. The permittee shall notify the Director of any monthly record showing the use of noncomplying coatings. A copy of such record shall be sent to the Director within 30 days following the end of the calendar month.
[OAC rules 3745-31-05(A)(3) and 3745-77-07(C)(1)]
2. The permittee shall submit quarterly deviation (excursion) reports that identify all exceedances of the daily VOC emission limitation of 90.0 pounds. These reports shall be submitted in accordance with paragraph A.1.c of this permit's General Terms and Conditions.
[OAC rules 3745-31-05(A)(3) and 3745-77-07(C)(1)]

V. Testing Requirements

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

- 1.a Emission Limitations:
3.5 pounds VOC per gallon of coating, excluding water and exempt solvents

Applicable Compliance Method:

Compliance shall be based upon the record keeping requirements in section A.III.1.c.

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

- 1.b Emissions Limitation:
90.0 lbs per day of VOC emissions from coatings and cleanup materials

Applicable Compliance Method:

Compliance shall be based upon the record keeping specified in Section A.III.1.

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

- 1.c Emissions Limitation:
16.4 tons VOC / year (including cleanup)

Applicable Compliance Method:

The annual allowable VOC limitation was developed by multiplying the daily limitation by 365, and then dividing by 2000. Therefore, as long as compliance with the daily limitation is shown, compliance with the annual limitation shall be assumed.

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

2. Formulation data or USEPA Method 24 shall be used to determine the VOC contents of all the coatings and cleanup materials.
[OAC rules 3745-31-05(A)(3) and 3745-77-07(C)(1)]

Facility Name: **The Minster Machine Company**
Facility ID: **03-06-00-0133**
Emissions Unit: **MIC Paint Spray Booth (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>
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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: Weld Shop Shot Blast with Baghouse (P006)
Activity Description: Shot blasting of iron castings and steel weldments

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>
Abrasive Blaster - Weld Shop (with baghouse)	OAC rule 3745-17-11(B)(2)	56.2 lbs particulate emissions (PE)/hr
	OAC rule 3745-17-07(A)	Visible PE shall not exceed 20% opacity, as a six-minute average, except as provided by rule.

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any visible emission incident; and
 - e. any corrective actions taken to minimize or eliminate the visible emissions.

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

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

IV. Reporting Requirements

1. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to minimize or eliminate the visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.
[OAC rule 3745-77-07(C)(1)]

V. Testing Requirements

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

- 1.a Emission Limitation:
56.2 lb PE/hr

Applicable Compliance Method:

Compliance with the emissions limitation may be determined by multiplying 0.03 gr PE/dscf (manufacturer specification) by the maximum volumetric air flow (11,000 acfm), and the appropriate conversion factors of lb/7000 grains, 1 dscf/1 acfm, 60 minutes/hr.

If required, compliance with the emissions limit shall be determined in accordance with OAC rule 3745-17-03(B)(10).

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

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

Applicable Compliance Method:

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

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

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>
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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: MIC Shakeout (P012)

Activity Description: Shakeout of castings with baghouse control

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>
casting sand 'shake-out' machine (with baghouse)	OAC rule 3745-17-11(B)(2)	8.07 lbs particulate emissions (PE)/hr
	OAC rule 3745-17-07(A)	Visible PE shall not exceed 20% opacity, as a six-minute average, except as provided by rule.

2. Additional Terms and Conditions

None

II. Operational Restrictions

- The outlet concentration of PE from the following dust collectors shall be limited to 0.030 grain per dry standard cubic foot (gr/dscf) of exhaust gases:

467-3, 468, and 471

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

- Nothing in this permit shall preclude the permittee from routing emissions from this emissions unit to other dust collector(s), or to route emissions from other emissions units to the dust collector(s) associated with this emissions unit, provided the dust collector(s) are able to maintain an emissions level of 0.030 gr/dscf. As of the effective date of this permit, the following dust collector(s) are associated with this emissions unit:

467-3

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

III. Monitoring and/or Record Keeping Requirements

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

- the color of the emissions;
- the total duration of any visible emission incident; and
- any corrective actions taken to eliminate the visible emissions.

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

IV. Reporting Requirements

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

V. Testing Requirements

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

- 1.a Emission Limitation:
8.07 lbs PE/hr and 0.030 gr/dscf

Applicable Compliance Method:

The permittee may demonstrate compliance with the hourly PE limitation based on the following formula:

$E = \text{summation of } (F_i \times C_i^* \times 60 \text{ min/hr} \times 1 \text{ lb}/7000 \text{ gr from each dust collector})$

Where:

E= the PE rate in lbs/hr from the emissions unit;

F_i= the flow rate from this emissions unit for each dust collector that this emissions unit is vented to, in dscfm;
and

C_i= the outlet concentration of PE from each dust collector that this emissions unit is vented to, in gr/dscf.

*Previous emissions testing at the plant has shown that the stacks that had no visible emissions during the test, had outlet concentrations of less than 0.030 gr/dscf.

Based on the monitoring and record keeping requirements specified in Section A.III.1, it will be assumed that this emissions unit is in compliance with the applicable particulate emission limitations if there are no visible emissions from the stack(s) associated with this emissions unit.

If required, the permittee shall demonstrate compliance with the hourly allowable PE limitation and/or the outlet concentration limitation by testing in accordance with USEPA Methods 1-5 of 40 CFR, Part 60, Appendix A.

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

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

Applicable Compliance Method:

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

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

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>
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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: Carborundum Shot Blast (P013)
Activity Description: Shot blast unit with sand cooler/storage

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>
abrasive blast unit, with sand classification, storage (with baghouse)	OAC rule 3745-17-11(B)(2)	71.8 lbs particulate emissions (PE)/hr
	OAC rule 3745-17-07(A)	Visible PE shall not exceed 20% opacity, as a six-minute average, except as provided by rule.

2. Additional Terms and Conditions

None

II. Operational Restrictions

- The outlet concentration of PE from the following dust collectors shall be limited to 0.030 grain per dry standard cubic foot (gr/dscf) of exhaust gases:

467-3, 468, and 471

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

- Nothing in this permit shall preclude the permittee from routing emissions from this emissions unit to other dust collector(s), or to route emissions from other emissions units to the dust collector(s) associated with this emissions unit, provided the dust collector(s) are able to maintain an emissions level of 0.030 gr/dscf. As of the effective date of this permit, the following dust collector(s) are associated with this emissions unit:

471

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

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. the total duration of any visible emission incident; and
 - c. any corrective actions taken to eliminate the visible emissions.[OAC rule 3745-77-07(C)(1)]

IV. Reporting Requirements

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

V. Testing Requirements

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

- 1.a Emission Limitation:
71.8 lbs PE/hr and 0.030 gr/dscf

Applicable Compliance Method:

The permittee may demonstrate compliance with the hourly PE limitation based on the following formula:

$$E = \text{summation of } (F_i \times C_i \times 60 \text{ min/hr} \times 1 \text{ lb/7000 gr from each dust collector})$$

Where:

E= the PE rate in lbs/hr from the emissions unit;

F_i= the flow rate from this emissions unit for each dust collector that this emissions unit is vented to, in dscfm; and

C_i= the outlet concentration of PE from each dust collector that this emissions unit is vented to, in gr/dscf.

*Previous emissions testing at the plant has shown that the stacks that had no visible emissions during the test, had outlet concentrations of less than 0.030 gr/dscf.

Based on the monitoring and record keeping requirements specified in Section A.III.1, it will be assumed that this emissions unit is in compliance with the applicable particulate emission limitations if there are no visible emissions from the stack(s) associated with this emissions unit.

If required, the permittee shall demonstrate compliance with the hourly allowable PE limitation and/or the outlet concentration limitation by testing in accordance with USEPA Methods 1-5 of 40 CFR, Part 60, Appendix A.

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

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

Applicable Compliance Method:

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

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

Facility Name: **The Minster Machine Company**
Facility ID: **03-06-00-0133**
Emissions Unit: **Carborundum Shot Blast (P013)**

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>
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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 System #2 (P020)

Activity Description: Sand handling--Distribution

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 System 2 - Distribution (with baghouse)	OAC rule 3745-17-11(B)(2)	26.0 lbs particulate emissions (PE)/hr (for emissions units P019, P020, and P021 combined)
	OAC rule 3745-17-07(A)	Visible PE shall not exceed 20% opacity, as a six-minute average, except as provided by rule.

2. Additional Terms and Conditions

None

II. Operational Restrictions

- The outlet concentration of PE from the following dust collectors shall be limited to 0.030 grain per dry standard cubic foot (gr/dscf) of exhaust gases:

467-3, 468, and 471

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

- Nothing in this permit shall preclude the permittee from routing emissions from this emissions unit to other dust collector(s), or to route emissions from other emissions units to the dust collector(s) associated with this emissions unit, provided the dust collector(s) are able to maintain an emissions level of 0.030 gr/dscf. As of the effective date of this permit, the following dust collector(s) are associated with emissions unit P019, P020, and P021:

467-3, 468, and 471

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

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. the total duration of any visible emission incident; and
 - c. any corrective actions taken to eliminate the visible emissions.[OAC rule 3745-77-07(C)(1)]

IV. Reporting Requirements

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

V. Testing Requirements

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

- 1.a Emission Limitation:
26.0 lbs PE/hr (for P019, P020, and P021 combined) and 0.030 gr/dscf

Applicable Compliance Method:

The permittee may demonstrate compliance with the hourly PE limitation based on the following formula:

$E = [\text{summation of } (F_i \times C_i^* \times 60 \text{ min/hr} \times 1 \text{ lb}/7000 \text{ gr from each dust collector})]$ for P019, P020, and P021 combined

Where:

E= the PE rate in lbs/hr from the emissions unit;

F_i= the flow rate from this emissions unit for each dust collector that this emissions unit is vented to, in dscfm; and

C_i= the outlet concentration of PE from each dust collector that this emissions unit is vented to, in gr/dscf.

*Previous emissions testing at the plant has shown that the stacks that had no visible emissions during the test, had outlet concentrations of less than 0.030 gr/dscf.

Based on the monitoring and record keeping requirements specified in Section A.III.1, it will be assumed that this emissions unit is in compliance with the applicable particulate emission limitations if there are no visible emissions from the stack(s) associated with this emissions unit.

If required, the permittee shall demonstrate compliance with the hourly allowable PE limitation and/or the outlet concentration limitation by testing in accordance with USEPA Methods 1-5 of 40 CFR, Part 60, Appendix A.

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

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

Applicable Compliance Method:

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

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

Facility Name: **The Minster Machine Company**
Facility ID: **03-06-00-0133**
Emissions Unit: **Sand System #2 (P020)**

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>
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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 System #3 (P021)

Activity Description: Sand handling--Reclaim

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 System 3 - Distribution, Reclamation (with baghouse)	OAC rule 3745-17-11(B)(2)	26.0 lbs particulate emissions (PE)/hr (for emissions units P019, P020, and P021 combined)
	OAC rule 3745-17-07(A)	Visible PE shall not exceed 20% opacity, as a six-minute average, except as provided by rule.

2. Additional Terms and Conditions

None

II. Operational Restrictions

- The outlet concentration of PE from the following dust collectors shall be limited to 0.030 grain per dry standard cubic foot (gr/dscf) of exhaust gases:

467-3, 468, and 471

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

- Nothing in this permit shall preclude the permittee from routing emissions from this emissions unit to other dust collector(s), or to route emissions from other emissions units to the dust collector(s) associated with this emissions unit, provided the dust collector(s) are able to maintain an emissions level of 0.030 gr/dscf. As of the effective date of this permit, the following dust collector(s) are associated with emissions unit P019, P020, and P021:

467-3, 468, and 471

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

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. the total duration of any visible emission incident; and
 - c. any corrective actions taken to eliminate the visible emissions.[OAC rule 3745-77-07(C)(1)]

IV. Reporting Requirements

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

V. Testing Requirements

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

- 1.a Emission Limitation:
26.0 lbs PE/hr (for P019, P020, and P021 combined) and 0.030 gr/dscf

Applicable Compliance Method:

The permittee may demonstrate compliance with the hourly PE limitation based on the following formula:

$E = [\text{summation of } (F_i \times C_i^* \times 60 \text{ min/hr} \times 1 \text{ lb}/7000 \text{ gr from each dust collector})]$ for P019, P020, and P021 combined

Where:

E= the PE rate in lbs/hr from the emissions unit;

F_i= the flow rate from this emissions unit for each dust collector that this emissions unit is vented to, in dscfm; and

C_i= the outlet concentration of PE from each dust collector that this emissions unit is vented to, in gr/dscf.

*Previous emissions testing at the plant has shown that the stacks that had no visible emissions during the test, had outlet concentrations of less than 0.030 gr/dscf.

Based on the monitoring and record keeping requirements specified in Section A.III.1, it will be assumed that this emissions unit is in compliance with the applicable particulate emission limitations if there are no visible emissions from the stack(s) associated with this emissions unit.

If required, the permittee shall demonstrate compliance with the hourly allowable PE limitation and/or the outlet concentration limitation by testing in accordance with USEPA Methods 1-5 of 40 CFR, Part 60, Appendix A.

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

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

Applicable Compliance Method:

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

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

Facility Name: **The Minster Machine Company**
Facility ID: **03-06-00-0133**
Emissions Unit: **Sand System #3 (P021)**

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>
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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: Carborundum Shot Blast MIC 34 PN (P026)
Activity Description: Shot blasting of iron castings

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>
Abrasive Blast Carborundum MIC 34 PN (with baghouse)	OAC rule 3745-17-11(B)(2)	18.4 lbs particulate emissions (PE)/hr
	OAC rule 3745-17-07(A)	Visible PE shall not exceed 20% opacity, as a six-minute average, except as provided by rule.

2. Additional Terms and Conditions

None

II. Operational Restrictions

- The outlet concentration of PE from the following dust collectors shall be limited to 0.030 grain per dry standard cubic foot (gr/dscf) of exhaust gases:

467-3, 468, and 471

[OAC rule 3745-77-07(A)(1)]
- Nothing in this permit shall preclude the permittee from routing emissions from this emissions unit to other dust collector(s), or to route emissions from other emissions units to the dust collector(s) associated with this emissions unit, provided the dust collector(s) are able to maintain an emissions level of 0.030 gr/dscf. As of the effective date of this permit, the following dust collector(s) are associated with this emissions unit:

468

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

III. Monitoring and/or Record Keeping Requirements

- The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - the color of the emissions;
 - the total duration of any visible emission incident; and
 - any corrective actions taken to eliminate the visible emissions.
 [OAC rule 3745-77-07(C)(1)]

IV. Reporting Requirements

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

V. Testing Requirements

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

- 1.a Emission Limitation:
18.4 lbs PE/hr and 0.030 gr/dscf

Applicable Compliance Method:

The permittee may demonstrate compliance with the hourly PE limitation based on the following formula:

$E = \text{summation of } (F_i \times C_i^* \times 60 \text{ min/hr} \times 1 \text{ lb}/7000 \text{ gr from each dust collector})$

Where:

E= the PE rate in lbs/hr from the emissions unit;

F_i= the flow rate from this emissions unit for each dust collector that this emissions unit is vented to, in dscfm;
and

C_i= the outlet concentration of PE from each dust collector that this emissions unit is vented to, in gr/dscf.

*Previous emissions testing at the plant has shown that the stacks that had no visible emissions during the test, had outlet concentrations of less than 0.030 gr/dscf.

Based on the monitoring and record keeping requirements specified in Section A.III.1, it will be assumed that this emissions unit is in compliance with the applicable particulate emission limitations if there are no visible emissions from the stack(s) associated with this emissions unit.

If required, the permittee shall demonstrate compliance with the hourly allowable PE limitation and/or the outlet concentration limitation by testing in accordance with USEPA Methods 1-5 of 40 CFR, Part 60, Appendix A.

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

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

Applicable Compliance Method:

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

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

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>
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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: Ajax Electric Furnace--North Furnace (P914)

Activity Description: Electric induction furnaces for melting gray and ductile iron and inoculation/treatment

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>
Electric Induction Furnace - North (3 ton/hr melting capacity) - with baghouse	OAC rule 3745-31-05(A)(3) (PTI 03-13950 as modified on September 18, 2007)	control requirements (See A.I.2.a)
		GRAY IRON:
		charging - 0.13 lb stack (controlled) PE /hr, 0.29 ton stack particulate emissions (PE) /yr; 1.90 tons fugitive (uncaptured) PE /yr
		melting - 1.8 tons fugitive PE /year
		tapping - 5.3 tons fugitive PE /yr
		inoculation - 6.0 tons fugitive PE /yr
		DUCTILE IRON:
		inoculation - 0.95 lb stack PE /hr, 0.06 ton stack PE /yr; 0.09 tons fugitive PE /yr
		refining - 1.19 lb stack PE /hr, 0.07 ton stack PE /yr; 0.11 ton fugitive PE /yr
		magnesium treatment - 0.43 lb stack PE /hr, 0.03 ton stack PE /yr; 0.04 ton fugitive PE /yr
		Visible stack PE shall not exceed 5 percent opacity, as a six-minute average.
		Visible fugitive PE shall not exceed 20 percent opacity, as a three-minute average.
	40 CFR 63.7680 et seq.	See Part II - Specific Facility Terms and Conditions

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
	OAC rule 3745-17-11(B)(2)	See A.I.2.b
	OAC rule 3745-17-07(A)	See A.I.2.b
	OAC rule 3745-17-08(B)	none (See A.I.2.c)
	OAC rule 3745-17-07(B)	none (See A.I.2.d)

2. Additional Terms and Conditions

- 2.a** The permittee shall employ best available technology (BAT) control requirements on this emissions unit. BAT for charging has been determined to be the use of a cyclone followed in series by a baghouse with a capture efficiency of 82 percent and a control efficiency of 99 percent. For ductile iron processing operations, a fume hood with a capture efficiency of 95 percent is also used to increase the capture efficiency of the cyclone/baghouse combination.
- 2.b** The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
- 2.c** The emissions unit is not located within an "Appendix A" area as identified in OAC rule 3745-17-08. Therefore, pursuant to OAC rule 3745-17-08(A), this emissions unit is exempt from the requirements of OAC rule 3745-17-08(B).
- 2.d** This emissions unit is exempt from the visible emissions limitation specified in OAC rule 3745-17-07(B), pursuant to OAC rule 3745-17-07(B)(11)(e).

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

- 1. In consideration of the applicability of 40 CFR 63.7680 et seq. (MACT Subpart EEEEE), this section of the permit establishes no additional monitoring requirements, for point or fugitive sources, for particulate control parametric indicators and/or opacity periodic checks.
- 2. The permittee shall collect and record the following information each month (differentiated between gray iron and ductile iron):
 - a. The total tons per month of throughput for: non-innoculated gray iron; inoculated gray iron; and ductile iron.
 - b. The annual, year-to-date tons of iron throughputs (summation of 'a', for each category for each calendar month to date from January to December).
[OAC rules 3745-31-05(A)(3) and 3745-77-07(C)(1)]

IV. Reporting Requirements

- 1. In consideration of the applicability of 40 CFR 63.7680 et seq. (MACT Subpart EEEEE), this section of the permit establishes no additional reporting requirements, for point or fugitive sources, for particulate control parametric indicators and/or opacity periodic checks.

V. Testing Requirements

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

V. Testing Requirements (continued)

- 1.a** Emission Limitations:
gray iron: charging - 0.13 lb stack PE /hr, 0.29 ton stack PE /yr

Applicable Compliance Method:

Compliance may be determined by multiplying the maximum hourly process weight rate (3 tons) by the appropriate emission factor from AP-42 Table 12.10-3, revised 1/95 [5.4 pounds PE/ton-- according to the permittee, 10 percent of the total emissions from the electric induction furnace are from "melting" which has an AP-42 emission factor of 0.9 pound PE/ton. 60 percent of the total emissions are from "charging" and 30 percent are from "tapping". To determine the emission factor from charging, the emissions factor for melting was extrapolated to determine the total emission factor from the electric induction furnace (9 pounds PE/ton). This value is multiplied by 0.60 to determine the emission factor for charging of 5.4 pounds PE/ton]. This value is then multiplied by a capture efficiency of 82* percent and control efficiency of 99** percent (1 - 0.99), respectively.

* estimated from Table 2.7-8 of Ohio EPA Reasonably Available Control Measures (RACM) for Fugitive Dust Sources, August 1983

** manufacturer estimate

If required, compliance with the hourly emissions limit shall be determined in accordance with 40 CFR 60, Appendix A, Methods 1-5.

To determine the annual emissions, compliance may be determined by multiplying the maximum annual process weight rate (13,000 tons) by the appropriate emission factor from AP-42 Table 12.10-3, revised 1/95 [5.4 pounds PE/ton-- as described above]. This value is then multiplied by a capture efficiency of 82 percent and control efficiency of 99 percent (1 - 0.99), respectively. Finally, this value is divided by 2000 pounds/ton. [OAC rules 3745-31-05(A)(3) and 3745-77-07(C)(1)]

- 1.b** Emission Limitation:
gray iron: charging - 1.90 tons fugitive PE /yr

Applicable Compliance Method:

Compliance may be determined by multiplying the maximum annual process weight rate (13,000 tons) by the appropriate emission factor from AP-42 Table 12.10-3, revised 1/95 [5.4 pounds PE/ton-- as described in A.V.1.a]. This value is then multiplied by the amount that is not captured by the control system (0.18) then by a control factor attributed to the building enclosure* $[(100-70)/100]$. Then this value is divided by 2000 pounds/ton.

* estimated from Table 2.7-8 of Ohio EPA Reasonably Available Control Measures (RACM) for Fugitive Dust Sources, August 1983

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

- 1.c** Emission Limitation:
gray iron: melting - 1.8 tons fugitive PE /year

Applicable Compliance Method:

Compliance may be determined by multiplying the maximum annual process weight rate (13,000 tons) by the appropriate emission factor from AP-42 Table 12.10-3, revised 01/95 (0.9 pound PE /ton). This value is then multiplied by a control factor attributed to the building enclosure* $[(100-70)/100]$ then divided by 2000 pounds/ton.

* estimated from Table 2.7-8 of Ohio EPA Reasonably Available Control Measures (RACM) for Fugitive Dust Sources, August 1983

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

V. Testing Requirements (continued)

- 1.d** Emission Limitation:
gray iron: tapping - 5.3 tons fugitive PE /yr

Applicable Compliance Method:

Compliance may be determined by multiplying the maximum annual process weight rate (13,000 tons) by the appropriate emission factor from AP-42 Table 12.10-3, revised 1/95 [2.7 pounds PE/ton-- according to the permittee, 10 percent of the total emissions from the electric induction furnace are from "melting" which has an AP-42 emission factor of 0.9 pound PE/ton. 60 percent of the total emissions are from "charging" and 30 percent are from "tapping". To determine the emission factor from tapping, the emissions factor for melting was extrapolated to determine the total emission factor from the electric induction furnace (9 pounds PE/ton). This value is multiplied by 0.30 to determine the emission factor for charging of 2.7 pounds PE/ton]. This value is then multiplied by a control factor attributed to the building enclosure* [(100-70)/100] then divided by 2000 pounds/ton.

* estimated from Table 2.7-8 of Ohio EPA Reasonably Available Control Measures (RACM) for Fugitive Dust Sources, August 1983
[OAC rules 3745-31-05(A)(3) and 3745-77-07(C)(1)]

- 1.e** Emission Limitation:
gray iron: inoculation - 6.0 tons fugitive PE /yr

Applicable Compliance Method:

Compliance may be determined by multiplying the maximum annual process weight rate (10,000 tons) by the appropriate emission factor from US EPA's FIRE 6.25 database (SCC 3-04-003-10) of 4.0 pounds PE /ton. This value is then multiplied by a control factor attributed to the building enclosure* [(100-70)/100] then divided by 2000 pounds/ton.

* estimated from Table 2.7-8 of Ohio EPA Reasonably Available Control Measures (RACM) for Fugitive Dust Sources, August 1983
[OAC rules 3745-31-05(A)(3) and 3745-77-07(C)(1)]

- 1.f** Emission Limitations:
ductile iron: inoculation - 0.95 lb stack PE /hr, 0.06 ton stack PE /yr

Applicable Compliance Method:

Compliance may be determined by multiplying the maximum hourly process weight rate (25 tons, pouring) by the appropriate emission factor from FIRE (SCC 3-04-003-10) of 4.0 pounds PE /ton. This value is then multiplied by a capture efficiency of 95* percent and control efficiency of 99** percent (1 - 0.99), respectively.

* estimated from Table 2.7-8 of Ohio EPA Reasonably Available Control Measures (RACM) for Fugitive Dust Sources, August 1983

** manufacturer estimate

If required, compliance with the hourly emissions limit shall be determined in accordance with 40 CFR 60, Appendix A, Methods 1-5.

To determine the annual emissions, compliance may be determined by multiplying the maximum annual process weight rate (3000 tons) by the appropriate emission factor from FIRE (4.0 pounds PE/ton). This value is then multiplied by a capture efficiency of 95 percent and control efficiency of 99 percent (1 - 0.99), respectively. Finally, this value is divided by 2000 pounds/ton.
[OAC rules 3745-31-05(A)(3) and 3745-77-07(C)(1)]

V. Testing Requirements (continued)

- 1.g** Emission Limitations:
ductile iron: inoculation - 0.09 tons fugitive PE /yr

Applicable Compliance Method:

Compliance may be determined by multiplying the maximum annual process weight rate (3000 tons) by the appropriate emission factor from FIRE (4.0 pounds PE/ton). This value is then multiplied by the amount that is not captured by the control system (0.05) then by the control factor attributed to the building enclosure* [(100-70)/100] then divided by 2000 pounds/ton.

* estimated from Table 2.7-8 of Ohio EPA Reasonably Available Control Measures (RACM) for Fugitive Dust Sources, August 1983
[OAC rules 3745-31-05(A)(3) and 3745-77-07(C)(1)]

- 1.h** Emission Limitations:
ductile iron: refining - 1.19 lb stack PE /hr, 0.07 ton stack PE /yr

Applicable Compliance Method:

Compliance may be determined by multiplying the maximum hourly process weight rate (25 tons, pouring) by the appropriate emission factor from FIRE (SCC 3-04-003-22) of 5.0 pounds PE /ton. This value is then multiplied by a capture efficiency of 95* percent and control efficiency of 99** percent (1 - 0.99), respectively.

* estimated from Table 2.7-8 of Ohio EPA Reasonably Available Control Measures (RACM) for Fugitive Dust Sources, August 1983

** manufacturer estimate

If required, compliance with the hourly emissions limit shall be determined in accordance with 40 CFR 60, Appendix A, Methods 1-5.

To determine the annual emissions, compliance may be determined by multiplying the maximum annual process weight rate (3000 tons) by the appropriate emission factor from FIRE (5.0 pounds PE/ton). This value is then multiplied by a capture efficiency of 95 percent and control efficiency of 99 percent (1 - 0.99), respectively. Finally, this value is divided by 2000 pounds/ton.
[OAC rules 3745-31-05(A)(3) and 3745-77-07(C)(1)]

- 1.i** Emission Limitations:
ductile iron: refining - 0.11 ton fugitive PE /yr

Applicable Compliance Method:

Compliance may be determined by multiplying the maximum annual process weight rate (3000 tons) by the appropriate emission factor from FIRE (5.0 pounds PE/ton). This value is then multiplied by the amount that is not captured by the control system (0.05) then by the control factor attributed to the building enclosure* [(100-70)/100] then divided by 2000 pounds/ton.

* estimated from Table 2.7-8 of Ohio EPA Reasonably Available Control Measures (RACM) for Fugitive Dust Sources, August 1983
[OAC rules 3745-31-05(A)(3) and 3745-77-07(C)(1)]

V. Testing Requirements (continued)

- 1.j** Emission Limitations:
ductile iron: magnesium treatment - 0.43 lb stack PE /hr, 0.03 ton stack PE /yr

Applicable Compliance Method:

Compliance may be determined by multiplying the maximum hourly process weight rate (25 tons, pouring) by the appropriate emission factor from FIRE (SCC 3-04-003-21) of 1.8 pounds PE /ton. This value is then multiplied by a capture efficiency of 95* percent and control efficiency of 99** percent (1 - 0.99), respectively.

* estimated from Table 2.7-8 of Ohio EPA Reasonably Available Control Measures (RACM) for Fugitive Dust Sources, August 1983

** manufacturer estimate

If required, compliance with the hourly emissions limit shall be determined in accordance with 40 CFR 60, Appendix A, Methods 1-5.

To determine the annual emissions, compliance may be determined by multiplying the maximum annual process weight rate (3000 tons) by the appropriate emission factor from FIRE (1.8 pounds PE/ton). This value is then multiplied by a capture efficiency of 95 percent and control efficiency of 99 percent (1 - 0.99), respectively. Finally, this value is divided by 2000 pounds/ton.

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

- 1.k** Emission Limitations:
ductile iron: magnesium treatment - 0.04 ton fugitive PE /yr

Applicable Compliance Method:

Compliance may be determined by multiplying the maximum annual process weight rate (3000 tons) by the appropriate emission factor from FIRE (1.8 pounds PE/ton). This value is then multiplied by the amount that is not captured by the control system (0.05) then by the control factor attributed to the building enclosure* [(100-70)/100] then divided by 2000 pounds/ton.

* estimated from Table 2.7-8 of Ohio EPA Reasonably Available Control Measures (RACM) for Fugitive Dust Sources, August 1983

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

- 1.l** Emission Limitations:
Visible stack PE shall not exceed 5 percent opacity, as a six-minute average.

Applicable Compliance Method:

If required, compliance shall be determined through visible emission observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9.

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

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

Applicable Compliance Method:

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

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>
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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: Ajax Electric Furnace--South (P928)

Activity Description: Electric induction furnaces for melting gray and ductile iron and inoculation/treatment

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>
Electric Induction Furnace - South (3 ton/hr melting capacity) - with baghouse	OAC rule 3745-31-05(A)(3) (PTI 03-13950 as modified on September 18, 2007)	control requirements (See A.I.2.a)
		GRAY IRON:
		charging - 0.13 lb stack (controlled) PE /hr, 0.29 ton stack particulate emissions (PE) /yr; 1.90 tons fugitive (uncaptured) PE /yr
		melting - 1.8 tons fugitive PE /year
		tapping - 5.3 tons fugitive PE /yr
		inoculation - 6.0 tons fugitive PE /yr
		DUCTILE IRON:
		inoculation - 0.95 lb stack PE /hr, 0.06 ton stack PE /yr; 0.09 tons fugitive PE /yr
		refining - 1.19 lb stack PE /hr, 0.07 ton stack PE /yr; 0.11 ton fugitive PE /yr
		magnesium treatment - 0.43 lb stack PE /hr, 0.03 ton stack PE /yr; 0.04 ton fugitive PE /yr
		Visible stack PE shall not exceed 5 percent opacity, as a six-minute average.
		Visible fugitive PE shall not exceed 20 percent opacity, as a three-minute average.
	40 CFR 63.7680 et seq.	See Part II - Specific Facility Terms and Conditions

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
	OAC rule 3745-17-11(B)(2)	See A.I.2.b
	OAC rule 3745-17-07(A)	See A.I.2.b
	OAC rule 3745-17-08(B)	none (See A.I.2.c)
	OAC rule 3745-17-07(B)	none (See A.I.2.d)

2. Additional Terms and Conditions

- 2.a** The permittee shall employ best available technology (BAT) control requirements on this emissions unit. BAT for charging has been determined to be the use of a cyclone followed in series by a baghouse with a capture efficiency of 82 percent and a control efficiency of 99 percent. For ductile iron processing operations, a fume hood with a capture efficiency of 95 percent is also used to increase the capture efficiency of the cyclone/baghouse combination.
- 2.b** The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
- 2.c** The emissions unit is not located within an "Appendix A" area as identified in OAC rule 3745-17-08. Therefore, pursuant to OAC rule 3745-17-08(A), this emissions unit is exempt from the requirements of OAC rule 3745-17-08(B).
- 2.d** This emissions unit is exempt from the visible emissions limitation specified in OAC rule 3745-17-07(B), pursuant to OAC rule 3745-17-07(B)(11)(e).

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

- 1. In consideration of the applicability of 40 CFR 63.7680 et seq. (MACT Subpart EEEEE), this section of the permit establishes no additional monitoring requirements, for point or fugitive sources, for particulate control parametric indicators and/or opacity periodic checks.
- 2. The permittee shall collect and record the following information each month (differentiated between gray iron and ductile iron):
 - a. The total tons per month of throughput for: non-innoculated gray iron; inoculated gray iron; and ductile iron.
 - b. The annual, year-to-date tons of iron throughputs (summation of 'a', for each category for each calendar month to date from January to December).
 [OAC rules 3745-31-05(A)(3) and 3745-77-07(C)(1)]

IV. Reporting Requirements

- 1. In consideration of the applicability of 40 CFR 63.7680 et seq. (MACT Subpart EEEEE), this section of the permit establishes no additional reporting requirements, for point or fugitive sources, for particulate control parametric indicators and/or opacity periodic checks.

V. Testing Requirements

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

V. Testing Requirements (continued)

- 1.a** Emission Limitations:
gray iron: charging - 0.13 lb stack PE /hr, 0.29 ton stack PE /yr

Applicable Compliance Method:

Compliance may be determined by multiplying the maximum hourly process weight rate (3 tons) by the appropriate emission factor from AP-42 Table 12.10-3, revised 1/95 [5.4 pounds PE/ton-- according to the permittee, 10 percent of the total emissions from the electric induction furnace are from "melting" which has an AP-42 emission factor of 0.9 pound PE/ton. 60 percent of the total emissions are from "charging" and 30 percent are from "tapping". To determine the emission factor from charging, the emissions factor for melting was extrapolated to determine the total emission factor from the electric induction furnace (9 pounds PE/ton). This value is multiplied by 0.60 to determine the emission factor for charging of 5.4 pounds PE/ton]. This value is then multiplied by a capture efficiency of 82* percent and control efficiency of 99** percent (1 - 0.99), respectively.

* estimated from Table 2.7-8 of Ohio EPA Reasonably Available Control Measures (RACM) for Fugitive Dust Sources, August 1983

** manufacturer estimate

If required, compliance with the hourly emissions limit shall be determined in accordance with 40 CFR 60, Appendix A, Methods 1-5.

To determine the annual emissions, compliance may be determined by multiplying the maximum annual process weight rate (13,000 tons) by the appropriate emission factor from AP-42 Table 12.10-3, revised 1/95 [5.4 pounds PE/ton-- as described above]. This value is then multiplied by a capture efficiency of 82 percent and control efficiency of 99 percent (1 - 0.99), respectively. Finally, this value is divided by 2000 pounds/ton. [OAC rules 3745-31-05(A)(3) and 3745-77-07(C)(1)]

- 1.b** Emission Limitation:
gray iron: charging - 1.90 tons fugitive PE /yr

Applicable Compliance Method:

Compliance may be determined by multiplying the maximum annual process weight rate (13,000 tons) by the appropriate emission factor from AP-42 Table 12.10-3, revised 1/95 [5.4 pounds PE/ton-- as described in A.V.1.a]. This value is then multiplied by the amount that is not captured by the control system (0.18) then by a control factor attributed to the building enclosure* [(100-70)/100]. Then this value is divided by 2000 pounds/ton.

* estimated from Table 2.7-8 of Ohio EPA Reasonably Available Control Measures (RACM) for Fugitive Dust Sources, August 1983

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

- 1.c** Emission Limitation:
gray iron: melting - 1.8 tons fugitive PE /year

Applicable Compliance Method:

Compliance may be determined by multiplying the maximum annual process weight rate (13,000 tons) by the appropriate emission factor from AP-42 Table 12.10-3, revised 01/95 (0.9 pound PE /ton). This value is then multiplied by a control factor attributed to the building enclosure* [(100-70)/100] then divided by 2000 pounds/ton.

* estimated from Table 2.7-8 of Ohio EPA Reasonably Available Control Measures (RACM) for Fugitive Dust Sources, August 1983

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

V. Testing Requirements (continued)

- 1.d** Emission Limitation:
gray iron: tapping - 5.3 tons fugitive PE /yr

Applicable Compliance Method:

Compliance may be determined by multiplying the maximum annual process weight rate (13,000 tons) by the appropriate emission factor from AP-42 Table 12.10-3, revised 1/95 [2.7 pounds PE/ton-- according to the permittee, 10 percent of the total emissions from the electric induction furnace are from "melting" which has an AP-42 emission factor of 0.9 pound PE/ton. 60 percent of the total emissions are from "charging" and 30 percent are from "tapping". To determine the emission factor from tapping, the emissions factor for melting was extrapolated to determine the total emission factor from the electric induction furnace (9 pounds PE/ton). This value is multiplied by 0.30 to determine the emission factor for charging of 2.7 pounds PE/ton]. This value is then multiplied by a control factor attributed to the building enclosure* [(100-70)/100] then divided by 2000 pounds/ton.

* estimated from Table 2.7-8 of Ohio EPA Reasonably Available Control Measures (RACM) for Fugitive Dust Sources, August 1983
[OAC rules 3745-31-05(A)(3) and 3745-77-07(C)(1)]

- 1.e** Emission Limitation:
gray iron: inoculation - 6.0 tons fugitive PE /yr

Applicable Compliance Method:

Compliance may be determined by multiplying the maximum annual process weight rate (10,000 tons) by the appropriate emission factor from US EPA's FIRE 6.25 database (SCC 3-04-003-10) of 4.0 pounds PE /ton. This value is then multiplied by a control factor attributed to the building enclosure* [(100-70)/100] then divided by 2000 pounds/ton.

* estimated from Table 2.7-8 of Ohio EPA Reasonably Available Control Measures (RACM) for Fugitive Dust Sources, August 1983
[OAC rules 3745-31-05(A)(3) and 3745-77-07(C)(1)]

- 1.f** Emission Limitations:
ductile iron: inoculation - 0.95 lb stack PE /hr, 0.06 ton stack PE /yr

Applicable Compliance Method:

Compliance may be determined by multiplying the maximum hourly process weight rate (25 tons, pouring) by the appropriate emission factor from FIRE (SCC 3-04-003-10) of 4.0 pounds PE /ton. This value is then multiplied by a capture efficiency of 95* percent and control efficiency of 99** percent (1 - 0.99), respectively.

* estimated from Table 2.7-8 of Ohio EPA Reasonably Available Control Measures (RACM) for Fugitive Dust Sources, August 1983

** manufacturer estimate

If required, compliance with the hourly emissions limit shall be determined in accordance with 40 CFR 60, Appendix A, Methods 1-5.

To determine the annual emissions, compliance may be determined by multiplying the maximum annual process weight rate (3000 tons) by the appropriate emission factor from FIRE (4.0 pounds PE/ton). This value is then multiplied by a capture efficiency of 95 percent and control efficiency of 99 percent (1 - 0.99), respectively. Finally, this value is divided by 2000 pounds/ton.
[OAC rules 3745-31-05(A)(3) and 3745-77-07(C)(1)]

V. Testing Requirements (continued)

- 1.g** Emission Limitations:
ductile iron: inoculation - 0.09 tons fugitive PE /yr

Applicable Compliance Method:

Compliance may be determined by multiplying the maximum annual process weight rate (3000 tons) by the appropriate emission factor from FIRE (4.0 pounds PE/ton). This value is then multiplied by the amount that is not captured by the control system (0.05) then by the control factor attributed to the building enclosure* [(100-70)/100] then divided by 2000 pounds/ton.

* estimated from Table 2.7-8 of Ohio EPA Reasonably Available Control Measures (RACM) for Fugitive Dust Sources, August 1983
[OAC rules 3745-31-05(A)(3) and 3745-77-07(C)(1)]

- 1.h** Emission Limitations:
ductile iron: refining - 1.19 lb stack PE /hr, 0.07 ton stack PE /yr

Applicable Compliance Method:

Compliance may be determined by multiplying the maximum hourly process weight rate (25 tons, pouring) by the appropriate emission factor from FIRE (SCC 3-04-003-22) of 5.0 pounds PE /ton. This value is then multiplied by a capture efficiency of 95* percent and control efficiency of 99** percent (1 - 0.99), respectively.

* estimated from Table 2.7-8 of Ohio EPA Reasonably Available Control Measures (RACM) for Fugitive Dust Sources, August 1983

** manufacturer estimate

If required, compliance with the hourly emissions limit shall be determined in accordance with 40 CFR 60, Appendix A, Methods 1-5.

To determine the annual emissions, compliance may be determined by multiplying the maximum annual process weight rate (3000 tons) by the appropriate emission factor from FIRE (5.0 pounds PE/ton). This value is then multiplied by a capture efficiency of 95 percent and control efficiency of 99 percent (1 - 0.99), respectively. Finally, this value is divided by 2000 pounds/ton.
[OAC rules 3745-31-05(A)(3) and 3745-77-07(C)(1)]

- 1.i** Emission Limitations:
ductile iron: refining - 0.11 ton fugitive PE /yr

Applicable Compliance Method:

Compliance may be determined by multiplying the maximum annual process weight rate (3000 tons) by the appropriate emission factor from FIRE (5.0 pounds PE/ton). This value is then multiplied by the amount that is not captured by the control system (0.05) then by the control factor attributed to the building enclosure* [(100-70)/100] then divided by 2000 pounds/ton.

* estimated from Table 2.7-8 of Ohio EPA Reasonably Available Control Measures (RACM) for Fugitive Dust Sources, August 1983
[OAC rules 3745-31-05(A)(3) and 3745-77-07(C)(1)]

V. Testing Requirements (continued)

- 1.j** Emission Limitations:
ductile iron: magnesium treatment - 0.43 lb stack PE /hr, 0.03 ton stack PE /yr

Applicable Compliance Method:

Compliance may be determined by multiplying the maximum hourly process weight rate (25 tons, pouring) by the appropriate emission factor from FIRE (SCC 3-04-003-21) of 1.8 pounds PE /ton. This value is then multiplied by a capture efficiency of 95* percent and control efficiency of 99** percent (1 - 0.99), respectively.

* estimated from Table 2.7-8 of Ohio EPA Reasonably Available Control Measures (RACM) for Fugitive Dust Sources, August 1983

** manufacturer estimate

If required, compliance with the hourly emissions limit shall be determined in accordance with 40 CFR 60, Appendix A, Methods 1-5.

To determine the annual emissions, compliance may be determined by multiplying the maximum annual process weight rate (3000 tons) by the appropriate emission factor from FIRE (1.8 pounds PE/ton). This value is then multiplied by a capture efficiency of 95 percent and control efficiency of 99 percent (1 - 0.99), respectively. Finally, this value is divided by 2000 pounds/ton.

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

- 1.k** Emission Limitations:
ductile iron: magnesium treatment - 0.04 ton fugitive PE /yr

Applicable Compliance Method:

Compliance may be determined by multiplying the maximum annual process weight rate (3000 tons) by the appropriate emission factor from FIRE (1.8 pounds PE/ton). This value is then multiplied by the amount that is not captured by the control system (0.05) then by the control factor attributed to the building enclosure* [(100-70)/100] then divided by 2000 pounds/ton.

* estimated from Table 2.7-8 of Ohio EPA Reasonably Available Control Measures (RACM) for Fugitive Dust Sources, August 1983

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

- 1.l** Emission Limitations:
Visible stack PE shall not exceed 5 percent opacity, as a six-minute average.

Applicable Compliance Method:

If required, compliance shall be determined through visible emission observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9.

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

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

Applicable Compliance Method:

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

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>
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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: Spray Booth, South Paint Room (small parts) (R001)
Activity Description: Paint spray booth to coat miscellaneous small parts

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 Spray Operation (Small Parts, South Room)	OAC rule 3745-21-09 (U)(2)(e)(iii)	VOC emission exemption, based on maximum daily coating usage not exceeding 10 gallons of coating in any one day
	40 CFR 63.3880 et seq.	See Part II - Specific Facility Terms and Conditions
	OAC rule 3745-17-11(A)	See A.I.2.a
	OAC rule 3745-17-07(A)	See A.I.2.b

2. Additional Terms and Conditions

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

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 at the facility:
 - a. The name and identification number of each coating employed.
 - b. The VOC content of each coating, as applied, in pounds per gallon.
 - c. The volume, in gallons, of each coating employed.
 - d. The total volume, in gallons, of all of the coatings employed.
[OAC rule 3745-77-07(C)(1)]

IV. Reporting Requirements

1. The permittee shall notify the Director of any daily record showing that the coating line employs more than the applicable maximum daily coating usage limit. A copy of such record shall be sent to the Director within 45 days after the exceedance occurs.
[OAC rule 3745-77-07(C)(1)]

V. Testing Requirements

1. Compliance with the emission limitations in Section A.I of the terms and conditions of this permit shall be determined in accordance with the following methods:

Emission Limitation:
not more than 10 gallons of coating usage per day

Applicable Compliance Method:
Compliance shall be based upon the record keeping requirements as specified in A.III.1.c.
[OAC rule 3745-77-07(C)(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>
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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: Spray Booths--South Paint Room (R002)
Activity Description: Paint spray booth to coat miscellaneous metal parts

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 Spray Operation (South Room)	OAC rule 3745-21-09 (U)(2)(e)(iii)	VOC emission exemption, based on maximum daily coating usage not exceeding 10 gallons of coating in any one day
	40 CFR 63.3880 et seq.	See Part II - Specific Facility Terms and Conditions
	OAC rule 3745-17-11(A)	See A.I.2.a
	OAC rule 3745-17-07(A)	See A.I.2.b

2. Additional Terms and Conditions

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

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 at the facility:
 - a. The name and identification number of each coating employed.
 - b. The VOC content of each coating, as applied, in pounds per gallon.
 - c. The volume, in gallons, of each coating employed.
 - d. The total volume, in gallons, of all of the coatings employed.
[OAC rule 3745-77-07(C)(1)]

IV. Reporting Requirements

1. The permittee shall notify the Director of any daily record showing that the coating line employs more than the applicable maximum daily coating usage limit. A copy of such record shall be sent to the Director within 45 days after the exceedance occurs.
[OAC rule 3745-77-07(C)(1)]

V. Testing Requirements

1. Compliance with the emission limitations in Section A.I of the terms and conditions of this permit shall be determined in accordance with the following methods:

Emission Limitation:
not more than 10 gallons of coating usage per day

Applicable Compliance Method:
Compliance shall be based upon the record keeping requirements as specified in A.III.1.c.
[OAC rule 3745-77-07(C)(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>
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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 Spray Booth--West Assembly Floor (R003)
Activity Description: Paint spray booth to coat miscellaneous metal parts

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 Spray Operation (West Assembly Floor)	OAC rule 3745-21-09 (U)(2)(e)(iii)	VOC emission exemption, based on maximum daily coating usage not exceeding 10 gallons of coating in any one day
	40 CFR 63.3880 et seq.	See Part II - Specific Facility Terms and Conditions
	OAC rule 3745-17-11(A)	See A.I.2.a
	OAC rule 3745-17-07(A)	See A.I.2.b

2. Additional Terms and Conditions

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

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 at the facility:
 - a. The name and identification number of each coating employed.
 - b. The VOC content of each coating, as applied, in pounds per gallon.
 - c. The volume, in gallons, of each coating employed.
 - d. The total volume, in gallons, of all of the coatings employed.
[OAC rule 3745-77-07(C)(1)]

IV. Reporting Requirements

1. The permittee shall notify the Director of any daily record showing that the coating line employs more than the applicable maximum daily coating usage limit. A copy of such record shall be sent to the Director within 45 days after the exceedance occurs.
[OAC rule 3745-77-07(C)(1)]

V. Testing Requirements

1. Compliance with the emission limitations in Section A.I of the terms and conditions of this permit shall be determined in accordance with the following methods:

Emission Limitation:
not more than 10 gallons of coating usage per day

Applicable Compliance Method:
Compliance shall be based upon the record keeping requirements as specified in A.III.1.c.
[OAC rule 3745-77-07(C)(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>
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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 Spray Booth--Large Assembly, East (R005)
Activity Description: Paint spray booth to coat miscellaneous metal parts

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 Spray Operation (Large Assembly, East)	OAC rule 3745-21-09 (U)(2)(e)(iii)	VOC emission exemption, based on maximum daily coating usage not exceeding 10 gallons of coating in any one day
	40 CFR 63.3880 et seq.	See Part II - Specific Facility Terms and Conditions
	OAC rule 3745-17-11(A)	See A.I.2.a
	OAC rule 3745-17-07(A)	See A.I.2.b

2. Additional Terms and Conditions

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

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 at the facility:
 - a. The name and identification number of each coating employed.
 - b. The VOC content of each coating, as applied, in pounds per gallon.
 - c. The volume, in gallons, of each coating employed.
 - d. The total volume, in gallons, of all of the coatings employed.
[OAC rule 3745-77-07(C)(1)]

IV. Reporting Requirements

1. The permittee shall notify the Director of any daily record showing that the coating line employs more than the applicable maximum daily coating usage limit. A copy of such record shall be sent to the Director within 45 days after the exceedance occurs.
[OAC rule 3745-77-07(C)(1)]

V. Testing Requirements

1. Compliance with the emission limitations in Section A.I of the terms and conditions of this permit shall be determined in accordance with the following methods:

Emission Limitation:
not more than 10 gallons of coating usage per day

Applicable Compliance Method:
Compliance shall be based upon the record keeping requirements as specified in A.III.1.c.
[OAC rule 3745-77-07(C)(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>
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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: Core Wash (R006)

Activity Description: Core wash operations.

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>
Core and Mold Wash	OAC rule 3745-21-07(G)	See A.II.2.

2. Additional Terms and Conditions

None

II. Operational Restrictions

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

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

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain monthly records of the following information for this emissions unit:

a. the company name and identification of each coating applied.

b. documentation on whether or not each coating employed is a photochemically reactive material.

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

IV. Reporting Requirements

1. The permittee shall notify the Director (the Ohio EPA, Northwest District Office) in writing of any monthly record showing the use of any photochemically reactive material. The notification shall include a copy of such record and shall be sent to the Director (the Ohio EPA, Northwest District Office) within 30 days following the end of the calendar month.

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

V. Testing Requirements

None

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>
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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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