John R. Kasich, Governor
Mary Taylor, Lt. Governor
Scott J. Nally, Director

3/13/2013

Genevieve Damico *Via E-Mail Notification*
United States Environmental Protection Agency
Mail Code: AR-18J
77 West Jackson Blvd.
Chicago, IL 60604-3507

RE: PROPOSED AIR POLLUTION TITLE V PERMIT
Facility Name: Nidec Minster Corporation
Facility ID: 0306000133
Permit Type: Renewal
Permit Number: P0111046

Dear Ms. Damico:

A proposed OAC Chapter 3745-77 Title V permit for the referenced facility has been issued for review by U.S. EPA. This permit can be accessed electronically on the Division of Air Pollution Control (DAPC) Web page, www.epa.ohio.gov/dapc by clicking the "Search for Permits" link under the Permitting topic on the Programs tab. If U.S. EPA does not object to this proposed permit, the permit will be processed for issuance as a final action not less than 45 days from the date of this letter. Please contact me at (614) 644-3631 by the end of the 45 day review period if you wish to object to the proposed permit.

Sincerely,

Michael W. Ahern, Manager
Permit Issuance and Data Management Section, DAPC

Cc: Ohio EPA DAPC, Northwest District Office

PROPOSED

Division of Air Pollution Control
Title V Permit
for
Nidec Minster Corporation

Facility ID:	0306000133
Permit Number:	P0111046
Permit Type:	Renewal
Issued:	3/13/2013
Effective:	To be entered upon final issuance
Expiration:	To be entered upon final issuance

Division of Air Pollution Control
Title V Permit
for
Nidec Minster Corporation

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Authorization

Facility ID:	0306000133
Facility Description:	Gray Iron Foundries
Application Number(s):	A0036660, A0041902, A0045969
Permit Number:	P0111046
Permit Description:	Second renewal of a Title V operating permit for a 'gray iron' foundry
Permit Type:	Renewal
Issue Date:	3/13/2013
Effective Date:	To be entered upon final issuance
Expiration Date:	To be entered upon final issuance
Superseded Permit Number:	P0086784

This document constitutes issuance of an OAC Chapter 3745-77 Title V permit to:

Nidec Minster Corporation
240 West Fifth Street
Minster, OH 45865-1065

Ohio Environmental Protection Agency (EPA)District Office or local air agency responsible for processing and administering your permit:

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

The above named entity is hereby granted a Title V permit pursuant to Chapter 3745-77 of the Ohio Administrative Code. 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. You will be sent a notice approximately 18 months prior to the expiration date regarding the renewal of this permit. If you do not receive a notice, please contact the Ohio EPA DAPC, Northwest District Office. 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, if a timely renewal application is submitted. A renewal application will be considered timely if it is submitted no earlier than 18 months (540 days) and no later than 6 months (180 days) prior to the expiration date.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

Scott J. Nally
Director

A. Standard Terms and Conditions

1. Federally Enforceable Standard Terms and Conditions

a) All Standard Terms and Conditions are federally enforceable, with the exception of those listed below which are enforceable under State law only:

(1) Standard Term and Condition A. 24., Reporting Requirements Related to Monitoring and Record Keeping Requirements of State-Only Enforceable Permit Terms and Conditions

(2) Standard Term and Condition A. 25., Records Retention Requirements for State-Only Enforceable Permit Terms and Conditions

(3) Standard Term and Condition A. 27., Scheduled Maintenance/Malfunction Reporting

(4) Standard Term and Condition A. 29., Additional Reporting Requirements When There Are No Deviations of Federally Enforceable Emission Limitations, Operational Restrictions, or Control Device Operating Parameter Limitations

(Authority for term: ORC 3704.036(A))

2. 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 C. Emissions Unit Terms and Conditions of this Title V permit), the permittee shall maintain records that include the following, where applicable, for any required monitoring under this permit:

(1) The date, place (as defined in the permit), and time of sampling or measurements.

(2) The date(s) analyses were performed.

(3) The company or entity that performed the analyses.

(4) The analytical techniques or methods used.

(5) The results of such analyses.

(6) 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:

(1) 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 Standard Term and Condition A.2.c)(2) 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) 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))

(2) Except as may otherwise be provided in the terms and conditions for a specific emissions unit (i.e., in section C. Emissions Unit Terms and Conditions of this Title V permit or, in some cases, in section B. Facility-Wide Terms and Conditions 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 Standard 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 Standard Term and Condition.

See A.29 below if no deviations occurred during the quarter.

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

(3) 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 Standard Term and Condition A.2)c)(2) 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; Standard Terms and Conditions: A.3, A.4, A.5, A.7.e), A.8, A.13, A.15, A.19, A.20, A.21, and A.23 of this Title V permit, as well as any deviations from the requirements in section C. Emissions Unit Terms and Conditions of this Title V permit, and any monitoring, record keeping, and reporting requirements, which are not reported in accordance with Standard Term and Condition A.2.c)(2) 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 section B. Facility-Wide Terms and Conditions 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 Standard Term and Condition A.2.c)(2) 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))

(4) 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))

(5) Reports of any required monitoring and/or record keeping information shall be submitted to Ohio EPA DAPC, Northwest District Office.

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

3. 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 Standard Term and Condition A.2.c)(1) above.

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

4. 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))

5. 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))

6. 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))

7. 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 Standard Term and Condition A.11 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 when:

(1) 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

(2) 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

(3) a combination of (1) and (2) above.

The permittee shall continue to comply with all applicable OAC Chapter 3745-31 requirements for all regulated air contaminant sources once this permit ceases to be enforceable. 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))

8. 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))

9. 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))

10. 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 standard terms and conditions shall apply to all operating scenarios authorized in this permit.

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

11. 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))

12. 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))

13. 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:

(1) 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.

(2) 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.

(3) Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit.

(4) 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:

(1) Dates for achieving the activities, milestones, or compliance required in any schedule of compliance, and dates when such activities, milestones, or compliance were achieved.

(2) 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:

(1) 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.

(2) 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.

(3) 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))

14. 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))

15. 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))

16. 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))

17. 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))

18. 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.)

19. 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))

20. 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))

21. 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))

22. 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)

23. 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))

24. Reporting Requirements Related to Monitoring and Record Keeping RequirementsUnder State Law Only

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.)

25. Records Retention RequirementsUnder State Law Only

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.

26. 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.

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

27. 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).

28. 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.

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

29. Additional Reporting Requirements When There Are No Deviations of Federally Enforceable Emission Limitations, Operational Restrictions, or Control Device Operating Parameter Limitations

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 Standard Term and Condition A.2.c)(2); 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.

B. Facility-Wide Terms and Conditions

1. All the following facility-wide terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only:

   a) None.

2. The following rule is applicable to this facility: 40 CFR 63.7680 et seq. (Subpart EEEEE)

   The permittee shall comply with the applicable emission limitation in 40 CFR 63.7690(a)(7):
   For each building or structure housing the iron and steel foundry emissions sources at this facility, the permittee must not discharge any fugitive emissions to the atmosphere from foundry operations that exhibit opacity greater than 20 percent (6-minute average), except for one 6-minute average per hour that does not exceed 27 percent opacity.

3. The permittee shall conduct emission testing for this facility [for the visible emission standard in B.2] in accordance with the following requirements:

   a) The emission testing shall be conducted no less frequently than once every 6 months [in accordance with 40 CFR 63.7731(b)]. Testing timeframe(s) specified may be amended or waived for cause upon prior request of, and written approval of, the U.S. EPA.

   b) The emission testing shall be conducted to demonstrate compliance with the allowable visible emissions standard in B.2.

   c) The following test method(s) shall be employed to meet the testing requirements above: method(s) and procedure(s) from 40 CFR 63.7732(d)

   d) The test(s) shall be conducted at a Maximum Source Operating Rate (MSOR), unless otherwise specified or approved by the Northwest District Office. MSOR is defined as the condition that is most likely to challenge the emission control measures with regards to meeting the applicable emission standard(s). Although it generally consists of operating the emissions unit at its maximum material input/production rates and results in the highest emission rate of the tested pollutant, there may be circumstances where a lower emissions loading is deemed the most challenging control scenario. Failure to test at the MSOR is justification for not accepting the test results as a demonstration of compliance.

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

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

   g) A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Northwest District Office within 30 days following completion of the test(s). The permittee may request additional time for the

submittal of the written report, where warranted, with prior approval from the Northwest District Office.

4. The permittee is subject to the applicable emission limitation(s) and/or control measures, operational restrictions, monitoring and/or record keeping requirements, reporting requirements, testing requirements and the general and/or other requirements specified in 40 CFR Part 63, Subpart DDDDD, in accordance with 40 CFR Parts 63.7480 through 63.7575 (including the Table(s) and Appendix(ices) referenced in Subpart DDDDD).

   The following emissions units in this permit are subject to the aforementioned requirements: P009, P029, P033, P034, P035, and P036.

   (Authority for term: 40 CFR Part 63)

5. The following emissions units contained in this permit are subject to 40 CFR, Part 63,Subpart EEEEE--National Emission Standards for Hazardous Air Pollutants (NESHAP) for Iron and Steel Foundries: F001, P914, P928, and all fugitive emissions from foundry operations. The complete MACT requirements, including the MACT General Provisions may be accessed via the internet from the Electronic Code of Federal Regulations (e-CFR) website http://ecfr.gpoaccess.gov or by contacting the appropriate Ohio EPA District office or local air agency.

   (Authority for term: 40 CFR, Part 63, Subpart EEEEE)

6. The following emissions units contained in this permit are subject to 40 CFR, Part 63,SubpartMMMM--National Emission Standards for Hazardous Air Pollutants (NESHAP) for Surface Coating of Miscellaneous Metal Parts and Products: K001, K002, K003, R001, R002, R003 and R005. The complete MACT requirements, including the MACT General Provisions may be accessed via the internet from the Electronic Code of Federal Regulations (e-CFR) website http://ecfr.gpoaccess.gov or by contacting the appropriate Ohio EPA District office or local air agency.

   (Authority for term: 40 CFR, Part 63, Subpart MMMM)

7. Pursuant to 40 CFR Part 64, the permittee has submitted, and the Ohio EPA has approved a compliance assurance monitoring plan for emissions units P020, P021, and P031, at this facility. The permittee shall comply with the provisions of the plan during any operation of the aforementioned emissions units.
   (Authority for term: 40 CFR Part 64)

8. The following insignificant emissions units 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. The insignificant emissions units listed below are subject to one or more applicable requirements contained in a permit to install or in the SIP-approved versions of OAC Chapters 3745-17, 3745-18, 3745-21, and/or 40 CFR 63 Subparts MMMM, DDDDD, and EEEEE.

   B007 - Air Make-up Unit 7.6 mmBtu/hr (n.g.) - Weld Shop
   B016 - Aerovent 7.5 mmBtu/hr(n.g.) air makeup unit (463)
   B017 - Aerovent 7.5 mmBtu/hr (n.g.) air makeup unit (464)
   F003 - (E) Bench Chip and Grind - Benches for the chipping and grinding of castings
   F004 - (G) Large Cleaning - Grinding of large castings

P009 - Holden Heat Treat Furnace #911 (9 MMBtu/hr)
P019 - Sand System #1 - Sand handling--truck to Silo
P029 - Natural gas heat treat furnace #908 (9 MMBtu/hr)
P032 - Emergency Use Diesel Generator Engine 162 bhp (PBR10263)
P033 - Nine (9) 0.15 MMBtu/hr(each) NG portable oven -cores /molds drying (indirect-fired)
P034 - Flaskless Molding Line - Core Wash Drier Oven (1 MMBtu natural gas) indirect-fired
P035 - Heat Treat Furnace (north end) <1 MMBtu/hr (n.g.) indirect-fired
P036 - recirculating core drier - 1.1 MMBtu/hour (n.g.) indirect-fired

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

C. Emissions Unit Terms and Conditions

1. F001, Metal Scrap and Charge Handling

Operations, Property and/or Equipment Description:

Metal Scrap and Charge Handling

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

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

(1) The specific operation(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures are identified below. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	40 CFR Part 63, Subpart EEEEE (40 CFR 63.7680 et seq.)	See b)(2)a. and b)(2)b.
b.	40 CFR 63.1-15 (40 CFR 63.7760)	Table 1 to Subpart EEEEE of 40 CFR Part 63 – Applicability of General Provisions to Subpart EEEEE shows which parts of the General Provisions in 40 CFR 63.1-15 apply.
c.	OAC rule 3745-17-07(B)	See b)(2)c.
d.	OAC rule 3745-17-08(B)	See b)(2)d.

(2) Additional Terms and Conditions

a. In accordance with 40 CFR 63.7700(b), the permittee must prepare and operate at all times according to a written certification that the foundry purchases and uses only metal ingots, pig iron, slitter, or other materials that do not include post-consumer automotive body scrap, post-consumer engine blocks, post-consumer oil filters, oily turnings, lead components, mercury switches, plastics, or free organic liquids. For the purpose of this paragraph, “free organic liquids” is defined as material that fails the paint filter test by EPA Method 9095A, “Paint Filter Liquids Test” (Revision 1, December 1996), as published in EPA Publication SW-846 “Test Methods for Evaluating Solid Waste, Physical/Chemical Methods” (incorporated by reference—see 40 CFR 63.14). Any post-consumer engine blocks, post-consumer oil filters, or oily turnings that are processed and/or cleaned to the extent practicable such that the materials do not include lead components, mercury switches, chlorinated plastics, or free organic liquids can be included in this certification.

Alternatively, the permittee may choose to comply with the requirements of 40 CFR 63.7700(c) for a scrap inspection program.

[40 CFR 63.7700(b) and (c)]

b. Fugitive emissions from this emissions unit shall not exceed the opacity standard in Section B.2 of this permit.

c. This emissions unit is exempt from the visible emissions limitation specified in OAC rule 3745-17-07(B), pursuant to OAC rule 3745-17-07(B)(11)(e).

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

c) Operational Restrictions

(1) None.

d) Monitoring and/or Recordkeeping Requirements

(1) The permittee shall comply with the applicable monitoring and record-keeping requirements required under 40 CFR 63 Subpart EEEEE, including the following sections:

63.7744(a)	maintain certification records (or selection and inspection plan records, if applicable)
63.7752	records (general)
63.7753	records retention (general)

[OAC rule 3745-77-07(C)(1), and 40 CFR 63 Subpart EEEEE]

e) Reporting Requirements

(1) None.

f) Testing Requirements

(1) None.

g) Miscellaneous Requirements

(1) None.

2. K001, Component Rebuild Paint Spray Booth

Operations, Property and/or Equipment Description:

Component Rebuild Spray Coating Operation (air and airless spray - metal parts)

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

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

(1) The specific operation(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures are identified below. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
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 See b)(2)a.
b.	OAC rule 3745-21-09(U)(2)(e)(iii)	See b)(2)b.
c.	40 CFR, Part 63, Subpart MMMM (40 CFR 63.3880 et seq.) [In accordance with 40 CFR 63.3890(b)(1), this emissions unit is an existing general use coating affected source subject to the emissions limitations and/or control measures specified in this section.]	2.6 lbs organic HAP emissions per gallon of coating solids (12-month rolling compliance period) [See b)(2)c. and b)(2)d.]
d.	40 CFR 63.1-15 (40 CFR 63.3901)	Table 2 to Subpart MMMM of 40 CFR Part 63 – Applicability of General Provisions to Subpart MMMM shows which parts of the General Provisions in 40 CFR 63.1-15 apply.
e.	OAC rule 3745-17-11(C)	See c)(1) and c)(2).

(2) Additional Terms and Conditions

a. The requirements of this rule also include compliance with the requirements of OAC rule 3745-21-09(U)(2)(e)(iii).

b. The permittee shall not employ more than ten gallons of coating material per day for the coating of miscellaneous metal parts in this emissions unit.

c. The permittee shall:

i. Demonstrate that the organic HAP content of each coating used in this emissions unit is less than or equal to the applicable emission limit in b)(1)c, and that each thinner and/or other additive, and cleaning material used contains no organic HAP. The permittee must meet all the requirements of 40 CFR 63.3940, 63.3941, and 63.3942, to demonstrate compliance with the applicable emission limit using this option; or

ii. Demonstrate that, based on the coatings, thinners and/or other additives, and cleaning materials used in emissions units K001, K002, K003, R001, R002, R003, and R005, combined, the organic HAP emission rate is less than or equal to the applicable emission limit in b)(1)c., calculated as a rolling 12-month emission rate and determined on a monthly basis. The permittee must meet all the requirements of 40 CFR 63.3950, 63.3951, and 63.3952 to demonstrate compliance with the emission limit using this option.

[40 CFR 63.3891(a) and (b)]

d. This emissions unit, under the compliant material option or the emission rate without add-on controls option as specified in b)(2)c. above, must be in compliance with the applicable emission limit in b)(1)c. at all times.
[40 CFR 63.3900 (a)(1)]

c) Operational Restrictions

(1) The permittee shall operate the dry filtration system for the control of particulate emissions whenever the spray equipment of this emissions unit is in operation and shall maintain the dry particulate filter in accordance with the manufacturer's recommendations, instructions, and/or operating manual(s), with any modifications deemed necessary by the permittee.
[OAC rule 3745-17-11(C)(1) and (2)(b), and OAC rule 3745-77-07(A)(1)]

(2) The permittee shall expeditiously repair the dry particulate filter or otherwise return it to normal operations, as recommended by the manufacturer with any modifications deemed necessary by the permittee, whenever it is determined that the control device is not operating in accordance with these requirements.
[OAC rule 3745-17-11(C)(2)(e), and OAC rule 3745-77-07(A)(1)]

d) Monitoring and/or Recordkeeping 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 d)(1)b times d)(1)c, for all coatings and cleanup materials employed].

[OAC rule 3745-77-07(C)(1) and PTI 03-7704]

(2) The permittee shall maintain documentation of the manufacturer's recommendations, instructions, or operating manuals for the dry particulate filter, along with documentation of any modifications deemed necessary by the permittee. These documents shall be maintained at the facility and shall be made available to the appropriate Ohio EPA District Office or local air agency upon request.
[OAC rule 3745-17-11(C)(2)(a), and OAC rule 3745-77-07(C)(1)]

(3) The permittee shall conduct periodic inspections of the dry particulate filter to determine whether it is operating in accordance with the manufacturer's recommendations, instructions, or operating manuals with any modifications deemed necessary by the permittee or operator. These inspections shall be performed at a frequency that shall be based upon the recommendation of the manufacturer and the permittee shall maintain a copy of the manufacturer's recommended inspection frequency and it shall be made available to the Ohio EPA upon request.
[OAC rule 3745-17-11(C)(2)(c), and OAC rule 3745-77-07(C)(1)]

(4) In addition to the recommended periodic inspections, not less than once each calendar year the permittee shall conduct a comprehensive inspection of the dry particulate filter while the emissions unit is shut down and perform any needed maintenance and repair to ensure that it is operated in accordance with the manufacturer's recommendations.
[OAC rule 3745-17-11(C)(2)(c), and OAC rule 3745-77-07(C)(1)]

(5) The permittee shall document each inspection (periodic and annual) of the dry particulate filter system and shall maintain the following information:

a. the date of the inspection;
b. a description of each/any problem identified and the date it was corrected;
c. a description of any maintenance and repairs performed; and
d. the name of person who performed the inspection.

These records shall be maintained at the facility for not less than five years from the date the inspection and any necessary maintenance or repairs were completed and shall be made available to the appropriate Ohio EPA District Office or local air agency upon request.
[OAC rule 3745-17-11(C)(2)(d) and (f), and OAC rule 3745-77-07(C)(1)]

(6) The permittee shall maintain records that document any time periods when the dry particulate filter was not in service when the emissions unit(s) was/were in operation, as

well as, a record of all operations during which the dry particulate filter was not operated according to the manufacturer's recommendations with any documented modifications made by the permittee. These records shall be maintained for a period of not less than five years and shall be made available to the Ohio EPA upon request.
[OAC rule 3745-17-11(C)(2)(f) and (g), and OAC rule 3745-77-07(C)(1)]

(7) The permittee shall comply with the applicable monitoring and record-keeping requirements required under 40 CFR 63 Subpart MMMM, including the following sections:

63.3930(a)	records (copies) of compliance notification reports
63.3930(b)	current records of coating manufacturer /supplier HAP information
63.3930(c)(1), (2), and (3)	records of calculation(s) for compliance
63.3930(d), (e), (f), and (g)	records of coating material types and volumes used, and HAP and solids content, and density (as applicable)
63.3930(j)	deviation records retention
63.3931	records retention (general)

[OAC rule 3745-77-07(C)(1), and 40 CFR 63 Subpart MMMM]

e) 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 rule 3745-21-09(B)(3)(e) and OAC rule 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 the Standard Terms and Conditions of this permit.
[OAC rule 3745-77-07(C)(1) and PTI 03-7704]

(3) The permittee shall comply with the applicable reporting requirements required under 40 CFR 63 Subpart MMMM, including the following sections:

63.3920(a)(2)	semi-annual reports (in accordance with Section A - General Terms and Conditions)
63.3920(a)(3)	reporting requirements (general)

63.3920(a)(4), (5), and (6)	deviation reporting requirements (general)

[OAC rule 3745-77-07(C)(1), and 40 CFR 63 Subpart MMMM]

(4) All reports shall be submitted electronically through Ohio EPA Air Services, unless an alternative schedule has been established and approved by the Director (the appropriate District Office or local air agency).
[OAC 3745-15-03(A)]

f) Testing Requirements

(1) Compliance with the Emissions Limitations and/or Control Requirements specified in section b) of these terms and conditions shall be determined in accordance with the following methods:

a. Emissions Limitation(s):
50.4 lbs per day of VOC emissions from coatings and cleanup materials

Applicable Compliance Method:
Compliance shall be based upon the record keeping requirements as specified in d)(1).
[OAC rule 3745-77-07(C)(1) and PTI 03-7704]

b. Emissions Limitation(s):
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, provided compliance is shown with the daily limitation, compliance with the annual limitation shall also be demonstrated.
[OAC rule 3745-77-07(C)(1) and PTI 03-7704]

c. Emissions Limitation(s):
Coating usage shall not exceed 10 gallons per day.

Applicable Compliance Method:
Compliance shall be based upon the record keeping requirements as specified in d)(1)d.

[OAC rule 3745-77-07(C)(1) and PTI 03-7704]

(2) Formulation data or US EPA Method 24 shall be used to determine the VOC contents of all the coatings and cleanup materials.
[OAC rule 3745-77-07(C)(1) and PTI 03-7704]

(3) The permittee shall comply with the applicable compliance requirements as required under 40 CFR 63 Subpart MMMM, including the following sections:

63.3940, 63.3941, and 63.3942	compliance requirements for the compliant material option
63.3950, 63.3951, and 63.3952	compliance requirements for the emission rate without add-on controls option

g) Miscellaneous Requirements

(1) None.

3. P006, Weld Shop Shot Blast with Baghouse

Operations, Property and/or Equipment Description:

Abrasive Blaster - Weld Shop (with baghouse)

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

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

(1) The specific operation(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures are identified below. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-17-11(B)(2)	56.2 lbs particulate emissions (PE) /hr
b.	OAC rule 3745-17-07(A)	Visible PE shall not exceed 20% opacity, as a six-minute average, except as provided by rule.

(2) Additional Terms and Conditions

a. None.

c) Operational Restrictions

(1) None.

d) Monitoring and/or Recordkeeping 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 d)(1)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)]

e) 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)]

(2) All reports shall be submitted electronically through Ohio EPA Air Services, unless an alternative schedule has been established and approved by the Director (the appropriate District Office or local air agency).
[OAC 3745-15-03(A)]

f) Testing Requirements

(1) Compliance with the Emissions Limitations and/or Control Requirements specified in section b) of these terms and conditions shall be determined in accordance with the following methods:

a. <u>Emissions Limitation(s):</u>
56.2 lbs PE/hr

<u>Applicable Compliance Method:</u>
The permittee may demonstrate compliance with the hourly PE limitation based on the following formula:

E= summation of (F_ix C_i* x 60 min/hr x 1 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, (11,000 dscfm);

and

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

If required, the permittee shall demonstrate compliance with the hourly allowable PE limitation by testing in accordance with OAC rule 3745-17-03(B)(10).
[OAC rule 3745-77-07(C)(1)]

b. Emission Limitation(s):
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)]

g) Miscellaneous Requirements

(1) None.

4. P012, MIC Shakeout

Operations, Property and/or Equipment Description:

Casting sand 'shake-out' machine (with baghouse)

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

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

(1) The specific operation(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures are identified below. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-17-11(B)(2)	8.07 lbs particulate emissions (PE) /hr
b.	OAC rule 3745-17-07(A)	Visible PE shall not exceed 20% opacity, as a six-minute average, except as provided by rule.

(2) Additional Terms and Conditions

a. 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:

i. 467-3, 468, and 471

b. 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:

i. 467-3

c) Operational Restrictions

(1) None.

d) Monitoring and/or Recordkeeping 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)]

e) 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)]

(2) All reports shall be submitted electronically through Ohio EPA Air Services, unless an alternative schedule has been established and approved by the Director (the appropriate District Office or local air agency).
[OAC 3745-15-03(A)]

f) Testing Requirements

(1) Compliance with the Emissions Limitations and/or Control Requirements specified in section b) of these terms and conditions shall be determined in accordance with the following methods:

a. <u>Emission Limitation(s):</u>
8.07 lbs PE /hr and 0.030 gr /dscf

<u>Applicable Compliance Method:</u>
The permittee may demonstrate compliance with the hourly PE limitation based on the following formula:

E= summation of (F_ix C_i* x 60 min/hr x 1 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 d)(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)]

b. Emission Limitation(s):
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)]

g) Miscellaneous Requirements

(1) None.

5. P013, Carborundum Shot Blast

Operations, Property and/or Equipment Description:

Abrasive blast unit, with sand classification, storage (with baghouse)

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

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

(1) The specific operation(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures are identified below. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-17-11(B)(2)	71.8 lbs particulate emissions (PE) /hr
b.	OAC rule 3745-17-07(A)	Visible PE shall not exceed 20% opacity, as a six-minute average, except as provided by rule.

(2) Additional Terms and Conditions

a. 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:

i. 467-3, 468, and 471

b. 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:

i. 471

c) Operational Restrictions

(1) None.

d) Monitoring and/or Recordkeeping 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)]

e) 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)]

(2) All reports shall be submitted electronically through Ohio EPA Air Services, unless an alternative schedule has been established and approved by the Director (the appropriate District Office or local air agency).
[OAC 3745-15-03(A)]

f) Testing Requirements

(1) Compliance with the Emissions Limitations and/or Control Requirements specified in section b) of these terms and conditions shall be determined in accordance with the following methods:

a. <u>Emission Limitation(s):</u>
71.8 lbs PE /hr and 0.030 gr /dscf

<u>Applicable Compliance Method:</u>
The permittee may demonstrate compliance with the hourly PE limitation based on the following formula:

E= summation of (F_ix C_i* x 60 min/hr x 1 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 d)(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)]

b. Emission Limitation(s):
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)]

g) Miscellaneous Requirements

(1) None

6. P031, 12' Dia Table Blast Unit (P031)

Operations, Property and/or Equipment Description:

Shot Blast Unit with Shot Collector Unit

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

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

(1) The specific operation(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures are identified below. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(F) (PTI P0106076 issued March 15, 2010)	0.01 grains (gr) particulate matter 10 microns or less (PM_{10}) per dry standard cubic foot (dscf) [See b)(2)a and b)(2)b.] 3.59 tons PM_{10} per year Visible particulate emissions (PE) from any stack serving this emissions unit shall not exceed five percent opacity, as a six minute average. See b)(2)a. and b)(2)b.
b.	OAC rule 3745-31-05(A)(3), as effective 11/30/01	See b)(2)c. and b)(2)d.
c.	OAC rule 3745-31-05(A)(3)(a)(ii), as effective 12/01/06	See b)(2)e.
d.	OAC rule 3745-17-11(B)	See b)(2)f.
e.	OAC rule 3745-17-07(A)	See b)(2)f.
f.	40 CFR, Part 64 - Compliance Assurance Monitoring (CAM)	See d) and e).

(2) Additional Terms and Conditions

a. Permit to Install and Operate (PTIO) P0106076 for this air contaminant source takes into account the following voluntary restrictions, as proposed by the permittee for the purpose establishing requirements to avoid the Best Available Technology (BAT) requirements under OAC rule-3745-31-05(A)(3)(a), as

effective 11/30/01,and for the purpose of establishing legally and practically enforceable limitations representing the potential to emit for PM_{10}:

i. use of a fabric filtration control system achieving a maximum outlet concentration of 0.01 gr PM_{10} /dscf. The fabric filtration control system shall consist of a baghouse (468 Baghouse) to control particulate matter emissions from abrasive blasting operations and a cartridge filter (Torit 2DF8) to control particulate matter emissions from abrasive material recovery operations.

ii. a mass emission rate limitation of 3.59 tons PM_{10} per year. The mass emission rate represents the total emissions from both abrasive blasting and abrasive material recovery operations;

iii. a restriction that visible PE from any stack serving this emissions unit shall not exceed five percent opacity, as a six minute average.

b. Emissions of PM_{10} are generated by and emitted from two specific operations associated with this emissions unit as identified below:

i. a single stack serving the baghouse (438 Baghouse) controlling the abrasive blasting operations;

ii. a single stack serving the cartridge filter (Torit 2DF8) controlling the abrasive material recovery operations;

All emissions of particulate matter from baghouse and cartridge filter are PM_{10}.

c. BAT requirements for this emissions unit have been determined to be compliance with the voluntary restrictions established in accordance with OAC rule 3745-31-05(F) [see b)(2)a.]. The voluntary restrictions were intentionally established to be consistent with the BAT requirements under OAC rule 3745-31-05(A)(3), as effective 11/30/01 for two specific purposes as indicated below:

i. BAT requirements under OAC rule 3745-31-05(A)(3), as effective 11/30/01 would be fulfilled by compliance with the voluntary restrictions;

ii. The emissions unit will avoid any BAT requirements under OAC rule 3745-31-05(A)(3), as effective 12/01/06 [see b)(2)e.].

d. The permittee has satisfied the Best Available Technology (BAT) requirements pursuant to OAC paragraph 3745-31-05(A)(3), as effective November 30, 2001, in this permit. On December 1, 2006, paragraph (A)(3) of OAC rule 3745-31-05 was revised to conform to ORC changes effective August 3, 2006 (S.B. 265 changes), such that BAT is no longer required by State regulations for NAAQS pollutants less than ten tons per year. However, that rule revision has not yet been approved by U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the U.S. EPA approves the revisions to OAC rule 3745-31-05, the requirement to satisfy BAT still exists as part of the federally-approved SIP for Ohio. Once U.S. EPA approves the

December 1, 2006 version of 3745-31-05, then these emission limits/control measures no longer apply.

e. This rule paragraph applies once U.S. EPA approves the December 1, 2006 version of OAC rule 3745-31-05 as part of the State Implementation Plan.

Best Available Technology (BAT) requirements under OAC rule 3745-31-05(A)(3)(a) do not apply to the PM10 emissions from this air contaminant source since the controlled potential to emit (PTE) is less than 10 tons per year taking into consideration practically and legally enforceable voluntary restrictions established in this permit.

f. The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to the voluntary restrictions and BAT requirements established in this permit [see b)(2)c.].

c) Operational Restrictions

(1) None.

d) Monitoring and/or Recordkeeping 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(s) serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:

a. the location and color of the emissions;

b. whether the emissions are representative of normal operations;

c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;

d. the total duration of any visible emission incident; and

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

[OAC rule 3745-77-07(C)(1), and 40 CFR, Part 64]

(2) The CAM plan for this emissions unit has been developed for particulate emissions. The CAM performance indicator for the baghouse controlling this emissions unit is daily visible emission checks. When the daily visible emission checks show operation outside its normal or usual manner of operation, the permittee shall take corrective actions to restore operation of the emissions unit and/or its control equipment to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions, and shall comply with the reporting requirements specified in Section e) below. The emissions unit and control equipment shall be operated in accordance with the approved CAM Plan, or any approved revision of the Plan.

[OAC rule 3745-77-07(C)(1), and 40 CFR, Part 64]

(3) If the permittee identifies a failure to achieve compliance with an emission limitation or standard for which the approved monitoring did not provide an indication of an excursion or exceedance, the permittee shall promptly notify the appropriate Ohio EPA District Office or local air agency, and if necessary, submit a proposed modification to the Title V permit to address the necessary monitoring changes. Such a modification may include, but is not limited to, re-establishing indicator ranges or designated conditions, modifying the frequency of conducting monitoring and collecting data, or the monitoring of additional parameters.
[OAC rule 3745-77-07(C)(1), and 40 CFR, Part 64]

(4) The permittee shall maintain a supply of replacement parts necessary to ensure ongoing proper operation of the baghouse system in accordance with any manufacturer recommendations.
[OAC rule 3745-77-07(C)(1), and 40 CFR, Part 64]

e) 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), and 40 CFR, Part 64]

(2) All reports shall be submitted electronically through Ohio EPA Air Services, unless an alternative schedule has been established and approved by the Director (the appropriate District Office or local air agency).
[OAC 3745-15-03(A)]

f) Testing Requirements

(1) Compliance with the Emissions Limitations and/or Control Requirements specified in section b) of these terms and conditions shall be determined in accordance with the following methods:

a. <u>Emission Limitation(s):</u>
0.01 gr PM_{10} /dscf

<u>Applicable Compliance Method:</u>
The emission limitation was established in accordance with emission testing data on the baghouse (438 Baghouse) and the manufacturer's guaranteed outlet grain loading for the cartridge filter (Torit 2DF8) controlling this emissions unit. If required, the permittee shall demonstrate compliance with the grain loading in accordance with Method 201/201A and 202 of 40 CFR 51, Appendix M.
[OAC rule 3745-77-07(C)(1) and PTI P0106076]

b. Emission Limitation(s):
3.59 tons of PM_{10} /year

Applicable Compliance Method:
The annual limitation was developed by multiplying a maximum hourly emission rate of 0.82 lb PM_{10}/hour by a maximum operating schedule of 8760 hr/yr and dividing by 2000 lbs/ton. The maximum hourly emission rate was determined by multiplying a maximum outlet concentration of 0.01 grain/dscf by a maximum volumetric air flow rate of 9500 acfm*, 60 min/hr, and 1 lb/7000 grains. Therefore, provided compliance is shown with the maximum outlet concentration, compliance with the annual limitation shall be demonstrated.

*The maximum volumetric air flow rate consists of 6500 acfm from the baghouse (438 Baghouse) controlling the abrasive blasting operations and 3000 acfm from the cartridge filter (Torit 2DF8) controlling the abrasive material recovery operations. If required, a demonstration of the maximum volumetric air flow rate shall be determined in accordance with 40 CFR Part 60, Appendix A, Methods 1-4.
[OAC rule 3745-77-07(C)(1) and PTI P0106076]

c. Emission Limitation(s):
Visible PE from any stack serving this emissions unit shall not exceed five 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 rule 3745-77-07(C)(1) and PTI P0106076]

g) Miscellaneous Requirements

(1) None.

7. R006, Core and Mold Wash

Operations, Property and/or Equipment Description:

Core and Mold Wash (hand /brush application)

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

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

(1) The specific operation(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures are identified below. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-21-07(M)(2)	See b)(2)a.

(2) Additional Terms and Conditions

a. The requirements of OAC rule 3745-21-07(M) are not applicable because there is no control device for this emissions unit.

c) Operational Restrictions

(1) None.

d) Monitoring and/or Recordkeeping Requirements

(1) None.

e) Reporting Requirements

(1) None.

f) Testing Requirements

(1) None.

g) Miscellaneous Requirements

(1) None.

8. Emissions Unit Group -Group A- foundry fugitive PE: F002 and F005

EU ID	Operations, Property and/or Equipment Description
F002	Iron Pouring and Cooling
F005	Sand / Binder Mixing for Core / Mold Forming

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

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

(1) The specific operation(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures are identified below. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	40 CFR Part 63, Subpart EEEEE (40 CFR 63.7680 et seq.)	See b)(2)a.
b.	40 CFR 63.1-15 (40 CFR 63.7760)	Table 1 to Subpart EEEEE of 40 CFR Part 63 – Applicability of General Provisions to Subpart EEEEE shows which parts of the General Provisions in 40 CFR 63.1-15 apply.
c.	OAC rule 3745-17-07(B)	See b)(2)b.
d.	OAC rule 3745-17-08(B)	See b)(2)c.

(2) Additional Terms and Conditions

a. Fugitive emissions from this emissions unit shall not exceed the opacity standard in Section B.2 of this permit.

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).

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).

c) Operational Restrictions

(1) None.

d) Monitoring and/or Recordkeeping Requirements

(1) None.

e) Reporting Requirements

(1) None.

f) Testing Requirements

(1) None.

g) Miscellaneous Requirements

(1) None.

9. Emissions Unit Group -Group B- Weld Shop, MIC -paint: K002 and K003

EU ID	Operations, Property and/or Equipment Description
K002	Weld Shop Spray Coating Operation (air and airless spray - metal parts)
K003	MIC Spray Coating Operation (air and airless spray - metal castings and parts)

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

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

(1) The specific operation(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures are identified below. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3) (PTI 03-7704 issued January 20, 1994)	90 lbs volatile organic compounds (VOC) /day (including cleanup), and 16.4 tons VOC /year See b)(2)a.
b.	OAC rule 3745-21-09(U)(1)(d)	3.5 lbs 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
c.	40 CFR, Part 63, Subpart MMMM (40 CFR 63.3880 et seq.) [In accordance with 40 CFR 63.3890(b)(1), these emissions units are existing general use coating affected sources subject to the emissions limitations and/or control measures specified in this section.]	2.6 lb organic HAP emissions per gallon of coating solids (12-month rolling compliance period) [See b)(2)b. and b)(2)c.]
d.	40 CFR 63.1-15 (40 CFR 63.3901)	Table 2 to Subpart MMMM of 40 CFR Part 63 – Applicability of General Provisions to Subpart MMMM shows which parts of the General Provisions in 40 CFR 63.1-15 apply.
e.	OAC rule 3745-17-11(C)	See c)(1) and c)(2).

(2) Additional Terms and Conditions

a. The requirements of this rule also include compliance with the requirements of OAC rule 3745-21-09(U)(1)(d).

b. The permittee shall:

i. Demonstrate that the organic HAP content of each coating used in this emissions unit is less than or equal to the applicable emission limit in b)(1)c, and that each thinner and/or other additive, and cleaning material used contains no organic HAP. The permittee must meet all the requirements of 40 CFR 63.3940, 63.3941, and 63.3942, to demonstrate compliance with the applicable emission limit using this option; or

ii. Demonstrate that, based on the coatings, thinners and/or other additives, and cleaning materials used in emissions units K001, K002, K003, R001, R002, R003, and R005, combined, the organic HAP emission rate is less than or equal to the applicable emission limit in b)(1)c, calculated as a rolling 12-month emission rate and determined on a monthly basis. The permittee must meet all the requirements of 40 CFR 63.3950, 63.3951, and 63.3952 to demonstrate compliance with the emission limit using this option.

[40 CFR 63.3891(a) and (b)]

c. This emissions unit, under the compliant material option or the emission rate without add-on controls option as specified in b)(2)a above, must be in compliance with the applicable emission limit in b)(1)c at all times.
[40 CFR 63.3900 (a)(1)]

c) Operational Restrictions

(1) The permittee shall operate the dry filtration system for the control of particulate emissions whenever the spray equipment of this emissions unit is in operation and shall maintain the dry particulate filter in accordance with the manufacturer's recommendations, instructions, and/or operating manual(s), with any modifications deemed necessary by the permittee.
[OAC rule 3745-17-11(C)(1) and (2)(b), and OAC rule 3745-77-07(C)(1)]

(2) The permittee shall expeditiously repair the dry particulate filter or otherwise return it to normal operations, as recommended by the manufacturer with any modifications deemed necessary by the permittee, whenever it is determined that the control device is not operating in accordance with these requirements.
[OAC rule 3745-17-11(C)(2)(e), and OAC rule 3745-77-07(C)(1)]

d) Monitoring and/or Recordkeeping 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 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 total VOC emissions from all the coatings and cleanup materials employed, in pounds [i.e. the sum of d)(1)b times d)(1)d, for all coatings and cleanup materials employed].

[OAC rule 3745-77-07(C)(1) and PTI 03-7704]

(2) The permittee shall maintain documentation of the manufacturer's recommendations, instructions, or operating manuals for the dry particulate filter, along with documentation of any modifications deemed necessary by the permittee. These documents shall be maintained at the facility and shall be made available to the appropriate Ohio EPA District Office or local air agency upon request.
[OAC rule 3745-17-11(C)(2)(a), and OAC rule 3745-77-07(C)(1)]

(3) The permittee shall conduct periodic inspections of the dry particulate filter to determine whether it is operating in accordance with the manufacturer's recommendations, instructions, or operating manuals with any modifications deemed necessary by the permittee or operator. These inspections shall be performed at a frequency that shall be based upon the recommendation of the manufacturer and the permittee shall maintain a copy of the manufacturer's recommended inspection frequency and it shall be made available to the Ohio EPA upon request.
[OAC rule 3745-17-11(C)(2)(c), and OAC rule 3745-77-07(C)(1)]

(4) In addition to the recommended periodic inspections, not less than once each calendar year the permittee shall conduct a comprehensive inspection of the dry particulate filter while the emissions unit is shut down and perform any needed maintenance and repair to ensure that it is operated in accordance with the manufacturer's recommendations.
[OAC rule 3745-17-11(C)(2)(c), and OAC rule 3745-77-07(C)(1)]

(5) The permittee shall document each inspection (periodic and annual) of the dry particulate filter system and shall maintain the following information:

a. the date of the inspection;
b. a description of each/any problem identified and the date it was corrected;
c. a description of any maintenance and repairs performed; and
d. the name of person who performed the inspection.

These records shall be maintained at the facility for not less than five years from the date the inspection and any necessary maintenance or repairs were completed and shall be

made available to the appropriate Ohio EPA District Office or local air agency upon request.
[OAC rule 3745-17-11(C)(2)(d) and (f), and OAC rule 3745-77-07(C)(1)]

(6) The permittee shall maintain records that document any time periods when the dry particulate filter was not in service when the emissions unit(s) was/were in operation, as well as, a record of all operations during which the dry particulate filter was not operated according to the manufacturer's recommendations with any documented modifications made by the permittee. These records shall be maintained for a period of not less than five years and shall be made available to the Ohio EPA upon request.
[OAC rule 3745-17-11(C)(2)(f) and (g), and OAC rule 3745-77-07(C)(1)]

(7) The permittee shall comply with the applicable monitoring and record-keeping requirements required under 40 CFR 63 Subpart MMMM, including the following sections:

63.3930(a)	records (copies) of compliance notification reports
63.3930(b)	current records of coating manufacturer /supplier HAP information
63.3930(c)(1), (2), and (3)	records of calculation(s) for compliance
63.3930(d), (e), (f), and (g)	records of coating material types and volumes used, and HAP and solids content, and density (as applicable)
63.3930(j)	deviation records retention
63.3931	records retention (general)

[OAC rule 3745-77-07(C)(1), and 40 CFR 63 Subpart MMMM]

e) Reporting Requirements

(1) The permittee shall notify the Director (the appropriate Ohio EPA District Office or local air agency) of any monthly record showing the use of noncomplying coatings. A copy of such record shall be sent to the Director (the appropriate Ohio EPA District Office or local air agency) within thirty days following the end of the calendar month.
[OAC rule 3745-21-09(B)(3)(g) and OAC rule 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 pounds. These reports shall be submitted in accordance with the Standard Terms and Conditions of this permit.
[OAC rule 3745-77-07(C)(1) and PTI 03-7704]

(3) The permittee shall comply with the applicable reporting requirements required under 40 CFR 63 Subpart MMMM, including the following sections:

63.3920(a)(2)	semi-annual reports (in accordance with Section A - General Terms and Conditions)
63.3920(a)(3)	reporting requirements (general)
63.3920(a)(4), (5), and (6)	deviation reporting requirements (general)

[OAC rule 3745-77-07(C)(1), and 40 CFR 63 Subpart MMMM]

(4) All reports shall be submitted electronically through Ohio EPA Air Services, unless an alternative schedule has been established and approved by the Director (the appropriate District Office or local air agency).
[OAC 3745-15-03(A)]

f) Testing Requirements

(1) Compliance with the Emissions Limitations and/or Control Requirements specified in section b) of these terms and conditions shall be determined in accordance with the following methods:

a. Emissions Limitation(s):
3.5 lbs VOC per gallon of coating, excluding water and exempt solvents

Applicable Compliance Method:
Compliance shall be based upon the record keeping requirements as specified in d)(1)c.
[OAC rule 3745-77-07(C)(1) and PTI 03-7704]

b. Emissions Limitation(s):
90 lbs per day of VOC emissions from coatings and cleanup materials

Applicable Compliance Method:
Compliance shall be based upon the record keeping requirements as specified in d)(1)e.
[OAC rule 3745-77-07(C)(1) and PTI 03-7704]

c. Emissions Limitation(s):
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, provided compliance is shown with the daily limitation, compliance with the annual limitation shall also be demonstrated.
[OAC rule 3745-77-07(C)(1) and PTI 03-7704]

(2) Formulation data or US EPA Method 24 shall be used to determine the VOC contents of all the coatings and cleanup materials.
[OAC rule 3745-77-07(C)(1) and PTI 03-7704]

(3) The permittee shall comply with the applicable compliance requirements as required under 40 CFR 63 Subpart MMMM, including the following sections:

63.3940, 63.3941, and 63.3942	compliance requirements for the compliant material option
63.3950, 63.3951, and 63.3952	compliance requirements for the emission rate without add-on controls option

[OAC rule 3745-77-07(C)(1), and 40 CFR 63 Subpart MMMM]

g) Miscellaneous Requirements

(1) None.

10. Emissions Unit Group -Group C- Sand Handling: P020 and P021

EU ID	Operations, Property and/or Equipment Description
P020	Sand System 2 - Distribution (with baghouse)
P021	Sand System 3 - Distribution, Reclamation (with baghouse)

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

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

(1) The specific operation(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures are identified below. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-17-11(B)(2)	26.0 lbs particulate emissions (PE) /hr (for emissions units P019, P020, and P021, combined)
b.	OAC rule 3745-17-07(A)	Visible PE shall not exceed 20% opacity, as a six-minute average, except as provided by rule.
c.	40 CFR, Part 64 - Compliance Assurance Monitoring (CAM)	See d) and e).

(2) Additional Terms and Conditions

a. 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:

i. 467-3, 468, and 471

b. 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:

i. 467-3, 468, and 471

c) Operational Restrictions

(1) None.

d) Monitoring and/or Recordkeeping 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), and 40 CFR, Part 64]

(2) The CAM plan for this emissions unit has been developed for particulate emissions. The CAM performance indicator for the baghouse controlling this emissions unit is daily visible emission checks. When the daily visible emission checks show operation outside its normal or usual manner of operation, the permittee shall take corrective actions to restore operation of the emissions unit and/or its control equipment to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions, and shall comply with the reporting requirements specified in Section e) below. The emissions unit and control equipment shall be operated in accordance with the approved CAM Plan, or any approved revision of the Plan.
[OAC rule 3745-77-07(C)(1), and 40 CFR, Part 64]

(3) If the permittee identifies a failure to achieve compliance with an emission limitation or standard for which the approved monitoring did not provide an indication of an excursion or exceedance, the permittee shall promptly notify the appropriate Ohio EPA District Office or local air agency, and if necessary, submit a proposed modification to the Title V permit to address the necessary monitoring changes. Such a modification may include, but is not limited to, re-establishing indicator ranges or designated conditions, modifying the frequency of conducting monitoring and collecting data, or the monitoring of additional parameters.
[OAC rule 3745-77-07(C)(1), and 40 CFR, Part 64]

(4) The permittee shall maintain a supply of replacement parts necessary to ensure ongoing proper operation of the baghouse system in accordance with any manufacturer recommendations.
[OAC rule 3745-77-07(C)(1), and 40 CFR, Part 64]

e) 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), and 40 CFR, Part 64]

(2) All reports shall be submitted electronically through Ohio EPA Air Services, unless an alternative schedule has been established and approved by the Director (the appropriate District Office or local air agency).
[OAC 3745-15-03(A)]

f) Testing Requirements

(1) Compliance with the Emissions Limitations and/or Control Requirements specified in section b) of these terms and conditions shall be determined in accordance with the following methods:

a. Emission Limitation(s):
26.0 lbs PE /hr (for emissions units 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= summation of (F_ix C_i* x 60 min/hr x 1 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 d)(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)]

b. Emission Limitation(s):
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)]

g) Miscellaneous Requirements

(1) None.

11. Emissions Unit Group -Group D- Melting Furnaces: P914 and P928 (6 ton/hr combined capacity)

EU ID	Operations, Property and/or Equipment Description
P914	Electric Induction Furnace - North (3 ton/hr melting capacity) - with baghouse
P928	Electric Induction Furnace - South (3 ton/hr melting capacity) - with baghouse

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

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

(1) The specific operation(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures are identified below. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3) (PTI 03-13950 as modified on September 18, 2007)	control requirements [See b)(2)a.] All emission limitations below are for each emissions unit individually: <u>IRON (General):</u> charging - 0.13 lb stack (controlled) particulate emissions (PE) /hr, 0.29 ton stack PE /yr; 1.90 tons fugitive (uncaptured) PE /yr melting - 1.8 tons fugitive PE /year tapping - 5.3 tons fugitive PE /yr gray iron inoculation - 6.0 tons fugitive PE /yr <u>DUCTILE IRON:</u> inoculation - 0.95 lb stack PE /hr, 0.06 ton stack PE /yr; 0.09 ton 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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		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.
b.	40 CFR Part 62, Subpart EEEEE (40 CFR 63.7680 et seq.) [In accordance with 40 CFR 63.7690(a)(1), these emissions units are electric induction melting furnaces at an existing iron and steel foundry subject to the emissions limitations and/or control measures specified in this section.]	0.005 grains of particulate matter (PM) per dry standard cubic foot (gr/dscf) [or alternatively, 0.0004 gr/dscf of total metal hazardous air pollutants (HAPs)]
c.	40 CFR 63.1-15 (40 CFR 63.7760)	Table 1 to Subpart EEEEE of 40 CFR Part 63 – Applicability of General Provisions to Subpart EEEEE shows which parts of the General Provisions in 40 CFR 63.1-15 apply.
d.	OAC rule 3745-17-11(B)(2)	See b)(2)d.
e.	OAC rule 3745-17-07(A)	See b)(2)d.
f.	OAC rule 3745-17-07(B)	See b)(2)e.
g.	OAC rule 3745-17-08(B)	See b)(2)f.

(2) Additional Terms and Conditions

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 baghouse 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 baghouse /baghouse combination.

b. The permittee must be in compliance with the emissions limitations, work practice standards, and operation and maintenance requirements in this subpart at all times, except during periods of startup, shutdown, or malfunction.
[40 CFR 63.7720(a)]

c. The permittee must develop a written startup, shutdown, and malfunction plan according to the provisions in 40 CFR 63.6(e)(3).
[40 CFR 63.7720(c)]

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

e. This emissions unit is exempt from the visible particulate emissions limitations specified in OAC rule 3745-17-07(B), pursuant to OAC rule 3745-17-07 (B)(11)(e).

f. This facility is not located within an "Appendix A" area identified in OAC rule 3745-17-08. Therefore, pursuant to OAC rule 3745-17-08 (A), this emissions unit is exempt from the requirements of OAC rule 3745-17-08 (B).

c) Operational Restrictions

(1) The permittee shall comply with the applicable restrictions required under 40 CFR Part 63, Subpart EEEEE, including the following sections:

63.7710(a)	good air pollution control practices for minimizing emissions
63.7710(b)(1), (3), (4), (5), and (6)	written operation and maintenance plan for each capture and collection system

[OAC rule 3745-77-07(A)(1), and 40 CFR Part 63, Subpart EEEEE]

d) Monitoring and/or Recordkeeping Requirements

(1) 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-inoculated gray iron; inoculated gray iron; and ductile iron.

b. The annual, year-to-date tons of iron throughputs [summation of d)(1)a, for each category for each calendar month to date from January to December].

[OAC rule 3745-77-07(C)(1) and PTI 03-13950]

(2) The permittee shall comply with the applicable monitoring and record-keeping requirements required under 40 CFR 63 Subpart EEEEE, including the following sections:

63.7740(c)	baghouse system periodic inspections (including daily pressure drops)
63.7741(b)	baghouse leak detection system (BLDS) requirements
63.7742(a) and (b)	monitoring data collection (general)
63.7742(c)	definition of a monitoring malfunction
63.7745(a)	written operation and maintenance plan - recordkeeping

	/documentation
63.7752(a) and (c)	record keeping (general)
63.7753	records retention (general)

[OAC rule 3745-77-07(C)(1), and 40 CFR 63 Subpart EEEEE]

e) Reporting Requirements

(1) The permittee shall comply with the applicable reporting requirements required under 40 CFR 63 Subpart EEEEE, including the following sections:

63.7746	deviations - definition and reporting requirements
63.7751(a) and (b)	compliance 'deviation' report - due dates and content
63.7751(c)	startup, shutdown, and malfunction - 'immediate' reporting instances
63.7751(d)	compliance 'deviation' report, in conjunction with Title V permit deviation reporting requirements (Standard Terms and Conditions)

[OAC rule 3745-77-07(C)(1), and 40 CFR 63 Subpart EEEEE]

f) Testing Requirements

(1) The permittee shall conduct emission testing for this emissions unit in accordance with the following requirements:

a. The next emission testing shall be conducted no less than 5 years from June 7, 2012 [in accordance with 40 CFR 63.7731(a)], or at another such time as may be required under that CFR section. Testing timeframe(s) specified may be amended or waived for cause upon prior request of, and written approval of, the Ohio EPA.

b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emissions rates for 'PM' or 'total metal HAP'.

c. The following test method(s) shall be employed to meet the testing requirements above: method(s) and procedure(s), as applicable, from 40 CFR 63.7732

d. The test(s) shall be conducted at a Maximum Source Operating Rate (MSOR), unless otherwise specified or approved by the Northwest District Office. MSOR is defined as the condition that is most likely to challenge the emission control measures with regards to meeting the applicable emission standard(s). Although it generally consists of operating the emissions unit at its maximum material input/production rates and results in the highest emission rate of the tested pollutant, there may be circumstances where a lower emissions loading is

deemed the most challenging control scenario. Failure to test at the MSOR is justification for not accepting the test results as a demonstration of compliance.

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

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

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

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

(2) Compliance with the Emissions Limitations and/or Control Requirements specified in section b) of these terms and conditions shall be determined in accordance with the following methods:

a. <u>Emission Limitation(s):</u>
iron (general): charging - 0.13 lb stack PE /hr, 0.29 ton stack PE /yr

<u>Applicable Compliance Method:</u>
The hourly emission limitation was established by multiplying the maximum hourly process weight rate (3 tons) by the applicable emission factor (AP-42 Table 12.10-3, revised 1/95) of 5.4 lb PE /ton. This value is then multiplied by a capture efficiency of 82* percent and control efficiency of 99** percent (1 - 0.99), respectively.

[5.4 pounds PE/ton emission factor-- 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].

* 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.

The annual emission limitation was established by multiplying the maximum annual process weight rate (13,000 tons) by the applicable 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 rule 3745-77-07(C)(1) and PTI 03-13950]

b. Emission Limitation(s):
iron (general): charging - 1.90 tons fugitive PE /yr

Applicable Compliance Method:
The emission limitation was established by multiplying the maximum annual process weight rate (13,000 tons) by the applicable emission factor from AP-42 Table 12.10-3, revised 1/95 [5.4 pounds PE/ton-- as described in f)(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 rule 3745-77-07(C)(1) and PTI 03-13950]

c. Emission Limitation(s):
iron (general): melting - 1.8 tons fugitive PE /year

Applicable Compliance Method:
The emission limitation was established by multiplying the maximum annual process weight rate (13,000 tons) by the applicable 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 rule 3745-77-07(C)(1) and PTI 03-13950]

d. Emission Limitation(s):
iron (general): tapping - 5.3 tons fugitive PE /yr

Applicable Compliance Method:
The emission limitation was established by multiplying the maximum annual process weight rate (13,000 tons) by the applicable emission factor (AP-42 Table 12.10-3, revised 1/95) of 2.7 lb 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.

[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].

* estimated from Table 2.7-8 of Ohio EPA Reasonably Available Control Measures (RACM) for Fugitive Dust Sources, August 1983
[OAC rule 3745-77-07(C)(1) and PTI 03-13950]

e. Emission Limitation(s):
gray iron inoculation - 6.0 tons fugitive PE /yr

Applicable Compliance Method:
The emission limitation was established by multiplying the maximum annual process weight rate (10,000 tons) by the applicable 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 rule 3745-77-07(C)(1) and PTI 03-13950]

f. Emission Limitation(s):
ductile iron: inoculation - 0.95 lb stack PE /hr, 0.06 ton stack PE /yr

Applicable Compliance Method:
The hourly emission limitation was established by multiplying the maximum hourly process weight rate (25 tons, pouring) by the applicable 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.

The annual emission limitation was established by multiplying the maximum annual process weight rate (3000 tons) by the applicable 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 rule 3745-77-07(C)(1) and PTI 03-13950]

g. Emission Limitation(s):
ductile iron: inoculation - 0.09 tons fugitive PE /yr

Applicable Compliance Method:
The emission limitation was established by multiplying the maximum annual process weight rate (3000 tons) by the applicable 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 rule 3745-77-07(C)(1) and PTI 03-13950]

h. Emission Limitation(s):
ductile iron: refining - 1.19 lb stack PE /hr, 0.07 ton stack PE /yr

Applicable Compliance Method:
The hourly emission limitation was determined by multiplying the maximum hourly process weight rate (25 tons, pouring) by the applicable 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.

The annual emission limitation was determined by multiplying the maximum annual process weight rate (3000 tons) by the applicable 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 rule 3745-77-07(C)(1) and PTI 03-13950]

i. Emission Limitation(s):
ductile iron: refining - 0.11 ton fugitive PE /yr

Applicable Compliance Method:
The emission limitation was established by multiplying the maximum annual process weight rate (3000 tons) by the applicable 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 rule 3745-77-07(C)(1) and PTI 03-13950]

j. Emission Limitation(s):
ductile iron: magnesium treatment - 0.43 lb stack PE /hr, 0.03 ton stack PE /yr

Applicable Compliance Method:
The hourly emission limitation was established by multiplying the maximum hourly process weight rate (25 tons, pouring) by the applicable 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.

The annual emission limitation was established by multiplying the maximum annual process weight rate (3000 tons) by the applicable 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 rule 3745-77-07(C)(1) and PTI 03-13950]

k. Emission Limitation(s):
ductile iron: magnesium treatment - 0.04 ton fugitive PE /yr

Applicable Compliance Method:
The emission limitation was established by multiplying the maximum annual process weight rate (3000 tons) by the applicable 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 rule 3745-77-07(C)(1) and PTI 03-13950]

l. Emission Limitation(s):
Visible ‘stack’ PE shall not exceed 5% opacity, as a 6-minute average.

Applicable Compliance Method:
If required, compliance shall be determined according to test Method 9 as set forth in the "Appendix on Test Methods" in 40 CFR Part 60 "Standards of Performance for New Stationary Sources."
[OAC rule 3745-77-07(C)(1) and PTI 03-13950]

m. Emission Limitation(s):
Visible 'fugitive' PE shall not exceed 20% opacity, as a three-minute average.

Applicable Compliance Method:
If required, compliance with the visible emission limitation listed above shall be determined according to Test Method 9 as set forth in the "Appendix on Test Methods" in 40 CFR Part 60 "Standards of Performance for New Stationary Sources." and the modifications listed in paragraphs (B)(3)(a) and (B)(3)(b) of OAC rule 3745-17-03.
[OAC rule 3745-77-07(C)(1) and PTI 03-13950]

(3) The permittee shall comply with the applicable compliance requirements as required under 40 CFR 63 Subpart MMMM, including the following sections:

63.7731(a)	baghouse stack - compliance re-test every five years
63.7743(a)(1)	demonstrating /maintaining continuous compliance

[OAC rule 3745-77-07(C)(1), and 40 CFR 63 Subpart EEEEE]

g) Miscellaneous Requirements

(1) The permittee shall comply with all the applicable requirements of Subpart A of Part 63 (General Provisions), as identified in Table 1 in the Appendix of Subpart EEEEE.

12. Emissions Unit Group -Group E- small spray booths: R001, R002, R003, and R005

EU ID	Operations, Property and/or Equipment Description
R001	Paint Spray Operation (Small Parts, South Room)
R002	Paint Spray Operation (South Room)
R003	Paint Spray Operation (West Assembly Floor)
R005	Paint Spray Operation (Large Assembly, East)

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

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

(1) The specific operation(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures are identified below. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-21-09(U)(2)(e)(iii)	See b)(2)a.
b.	40 CFR, Part 63, Subpart MMMM (40 CFR 63.3880 et seq.) [In accordance with 40 CFR 63.3890(b)(1), these emissions units are existing general use coating affected sources subject to the emissions limitations and/or control measures specified in this section.]	2.6 lb organic HAP emissions per gallon of coating solids (12-month rolling compliance period) [See b)(2)b and b)(2)c.]
c.	40 CFR 63.1-15 (40 CFR 63.3901)	Table 2 to Subpart MMMM of 40 CFR Part 63 – Applicability of General Provisions to Subpart MMMM shows which parts of the General Provisions in 40 CFR 63.1-15 apply.
d.	OAC rule 3745-17-11(C)	See c)(1) and c)(2).

(2) Additional Terms and Conditions

a. The permittee shall not employ more than ten gallons of coating material per day for the coating of miscellaneous metal parts in this emissions unit.

b. The permittee shall:

i. Demonstrate that the organic HAP content of each coating used in this emissions unit is less than or equal to the applicable emission limit in b)(1)b., and that each thinner and/or other additive, and cleaning material used contains no organic HAP. The permittee must meet all the requirements of 40 CFR 63.3940, 63.3941, and 63.3942, to demonstrate compliance with the applicable emission limit using this option; or

ii. Demonstrate that, based on the coatings, thinners and/or other additives, and cleaning materials used in emissions units K001, K002, K003, R001, R002, R003, and R005, combined, the organic HAP emission rate is less than or equal to the applicable emission limit in b)(1)b., calculated as a rolling 12-month emission rate and determined on a monthly basis. The permittee must meet all the requirements of 40 CFR 63.3950, 63.3951, and 63.3952 to demonstrate compliance with the emission limit using this option.

[40 CFR 63.3891(a) and (b)]

c. This emissions unit, under the compliant material option or the emission rate without add-on controls option as specified in b)(2)b above, must be in compliance with the applicable emission limit in b)(1)c at all times.
[40 CFR 63.3900 (a)(1)]

c) Operational Restrictions

(1) The permittee shall operate the dry filtration system for the control of particulate emissions whenever the spray equipment of this emissions unit is in operation and shall maintain the dry particulate filter in accordance with the manufacturer's recommendations, instructions, and/or operating manual(s), with any modifications deemed necessary by the permittee.
[OAC rule 3745-17-11(C)(1) and (2)(b), and OAC rule 3745-77-07(C)(1)]

(2) The permittee shall expeditiously repair the dry particulate filter or otherwise return it to normal operations, as recommended by the manufacturer with any modifications deemed necessary by the permittee, whenever it is determined that the control device is not operating in accordance with these requirements.
[OAC rule 3745-17-11(C)(2)(e), and OAC rule 3745-77-07(C)(1)]

d) Monitoring and/or Recordkeeping 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 volume, in gallons, of each coating employed.

c. The total volume, in gallons, of all of the coatings employed.

(2) The permittee shall maintain documentation of the manufacturer's recommendations, instructions, or operating manuals for the dry particulate filter, along with documentation

of any modifications deemed necessary by the permittee. These documents shall be maintained at the facility and shall be made available to the appropriate Ohio EPA District Office or local air agency upon request.
[OAC rule 3745-17-11(C)(2)(a), and OAC rule 3745-77-07(C)(1)]

(3) The permittee shall conduct periodic inspections of the dry particulate filter to determine whether it is operating in accordance with the manufacturer's recommendations, instructions, or operating manuals with any modifications deemed necessary by the permittee or operator. These inspections shall be performed at a frequency that shall be based upon the recommendation of the manufacturer and the permittee shall maintain a copy of the manufacturer's recommended inspection frequency and it shall be made available to the Ohio EPA upon request.
[OAC rule 3745-17-11(C)(2)(c), and OAC rule 3745-77-07(C)(1)]

(4) In addition to the recommended periodic inspections, not less than once each calendar year the permittee shall conduct a comprehensive inspection of the dry particulate filter while the emissions unit is shut down and perform any needed maintenance and repair to ensure that it is operated in accordance with the manufacturer's recommendations.
[OAC rule 3745-17-11(C)(2)(c), and OAC rule 3745-77-07(C)(1)]

(5) The permittee shall document each inspection (periodic and annual) of the dry particulate filter system and shall maintain the following information:

a. the date of the inspection;
b. a description of each/any problem identified and the date it was corrected;
c. a description of any maintenance and repairs performed; and
d. the name of person who performed the inspection.

These records shall be maintained at the facility for not less than five years from the date the inspection and any necessary maintenance or repairs were completed and shall be made available to the appropriate Ohio EPA District Office or local air agency upon request.
[OAC rule 3745-17-11(C)(2)(d) and (f), and OAC rule 3745-77-07(C)(1)]

(6) The permittee shall maintain records that document any time periods when the dry particulate filter was not in service when the emissions unit(s) was/were in operation, as well as, a record of all operations during which the dry particulate filter was not operated according to the manufacturer's recommendations with any documented modifications made by the permittee. These records shall be maintained for a period of not less than five years and shall be made available to the Ohio EPA upon request.
[OAC rule 3745-17-11(C)(2)(f) and (g), and OAC rule 3745-77-07(C)(1)]

(7) The permittee shall comply with the applicable monitoring and record-keeping requirements required under 40 CFR 63 Subpart MMMM, including the following sections:

63.3930(a)	records (copies) of compliance notification reports
63.3930(b)	current records of coating manufacturer /supplier HAP

	information
63.3930(c)(1), (2), and (3)	records of calculation(s) for compliance
63.3930(d), (e), (f), and (g)	records of coating material types and volumes used, and HAP and solids content, and density (as applicable)
63.3930(j)	deviation records retention
63.3931	records retention (general)

[OAC rule 3745-77-07(C)(1), and 40 CFR 63 Subpart MMMM]

e) 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 rule 3745-21-09(B)(3)(e) and OAC rule 3745-77-07(C)(1)]

(2) The permittee shall comply with the applicable reporting requirements required under 40 CFR 63 Subpart MMMM, including the following sections:

63.3920(a)(2)	semi-annual reports (in accordance with Section A - General Terms and Conditions)
63.3920(a)(3)	reporting requirements (general)
63.3920(a)(4), (5), and (6)	deviation reporting requirements (general)

[OAC rule 3745-77-07(C)(1), and 40 CFR 63 Subpart MMMM]

(3) All reports shall be submitted electronically through Ohio EPA Air Services, unless an alternative schedule has been established and approved by the Director (the appropriate District Office or local air agency).
[OAC 3745-15-03(A)]

f) Testing Requirements

(1) Compliance with the Emissions Limitations and/or Control Requirements specified in section b) of these terms and conditions shall be determined in accordance with the following methods:

<u>Emissions Limitation(s):</u>
Coating usage shall not exceed 10 gallons per day.

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

(2) The permittee shall comply with the applicable compliance requirements as required under 40 CFR 63 Subpart MMMM, including the following sections:

63.3940, 63.3941, and 63.3942	compliance requirements for the compliant material option
63.3950, 63.3951, and 63.3952	compliance requirements for the emission rate without add-on controls option

[OAC rule 3745-77-07(C)(1), and 40 CFR 63 Subpart MMMM]

g) Miscellaneous Requirements

(1) None.