State of Ohio Environmental Protection Agency

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

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

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

05/30/03

CERTIFIED MAIL

RE: Final Title V Chapter 3745-77 permit

13-18-20-2137
The Lincoln Electric Company
Jerome M Cangelosi
22801 St. Clair Avenue
Cleveland, OH 44117-1199

Dear Jerome M Cangelosi:

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

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

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

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

If you have any questions, please contact Cleveland Division of Air Pollution Control.

Very truly yours,

Michael W. Ahern

Michael W. Ahern, Supervisor
Field Operations and Permit Section
Division of Air Pollution Control

cc: Cleveland Division of Air Pollution Control
File, DAPC PMU

State of Ohio Environmental Protection Agency

FINAL TITLE V PERMIT

Issue Date: **05/30/03**	Effective Date: **06/20/03**	Expiration Date: **06/20/08**

This document constitutes issuance of a Title V permit for Facility ID: 13-18-20-2137 to:
The Lincoln Electric Company
22801 St. Clair Avenue
Cleveland, OH 44117-1199

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

B003 (Boiler 02)
EP1/2 Boiler #4 - Gas - 50 mmBtu

B011 (Boiler 03)
EP1/2 Boiler #2 - Gas - 36 mmBtu

B012 (Boiler 04)
EP1/2 Boiler #3 - Gas - 36 mmBtu

B013 (EP4 Heater #7)
EP4 Heater #7

B014 (EP4 Heater #8)
EP4 Heater #8

F001 (Ore Pit)
Electrode Division - #2 Ore Pit

K010 (Paint Dip 02)
Machine Division - Bay 1

K012 (Varnish Dip 05)
Maintenance EP4

K014 (Paint Dip 03)
Machine Division - Bay 3

K015 (Paint Dip 04)
Machine Division - Bay 5

K018 (Paint Dip 06)
Machine Division - Bay 10

K026 (Paint Spray Booth 03)
Machine Division - Bay 3

K029 (Paint Spray Booth 04)
TEMPORARILY SHUT DOWN

K031 (Paint Spray Booth 05)
Machine Division - Bay 23A

K038 (Paint Spray Booth 07)
Machine Division - Bay 12

K048 (Paint Spray Booth 12)
Machine Division - Bay 23F

K059 (Paint Spray Booth 17)
Machine Division - Bay 9 Powder Paint

K060 (Varnish Dip 07)
Machine Division - Bay 6

K061 (Varnish Dip 08)
Machine Division - Bay 1

K065 (Varnish Dip 12)
Returned to LECO 5/01 - EP3

K066 (Paint Spray Booth 18)
Machine Division - Bay 23M

K067 (Varnish Dip 11)
Machine Division - Clean Room Encapsulation Process

K069 (Paint Spray Booth 20)
Maintenance Dept EP4 - Paint Booth

K072 (Paint Spray Booth 21)
Armature Spray Paint Touch-Up Canopy - Bay 18A

K102 (Paint Dip 08)
Motor Division - E-Coat System; originally given EPA ID # K002. Owned by Lincoln Electric. Returned to LECO 5/01

N001 (Misc. Source 06)
Machine Division - Pyrolytic Oven

P020 (Drier 01)
Electrode Division - Lime Drier

P021 (Kiln 01)
Electrode Division - Calcining Kiln

P022 (Drier 02)
Electrode Division - Fluorspar Drier

P023 (Kiln 02)
Electrode Division - Small Direct Fired Kiln

P025 (Drier 03)
Electrode Division - Ore Drier

P026 (Kiln 03)
Electrode Division - Large Direct Fired Kiln

P029 (Drier 05)
Electrode Division - Bake Oven

P031 (R&D Engine Test)
Machine R&D - Diesel and Gasoline Engine Welders

P034 (Strip Etch Strip Line)
Strip Etch Strip Line

P035 (Engine Welder Burn-In)
Bay 12- Engine Welder Burn-In Station

P036 (Oven 12)
Electode Division - Extruding Oven N

P037 (#1 Roll Crusher Line)
#1 Roll Crusher Line

P038 (#1 Ball Mill)
#1 Ball Mill

P039 (#4 Ball Mill)
#4 Ball Mill

P040 (Sweco)
SWECO Screen

P048 (Oven 1)
Electode Division - Extruding Oven B

P049 (Oven 3)
Electode Division - Extruding Oven D

P050 (Oven 4)
Electode Division - Extruding Oven E

P051 (Oven 5)
Electode Division - Extruding Oven F

P052 (Oven 7)
Electode Division - Extruding Oven H

P053 (Oven 10)
Electode Division - Extruding Oven L

P054 (Oven 11)
Electode Division - Extruding Oven M

P902 (Kiln 05)
Electrode Division - A-Flux Kiln

P903 (Kiln 06)
Electrode Division - B-Flux Kiln

P904 (Kiln 07)

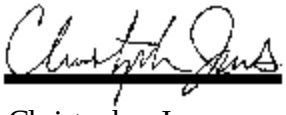
Electrode Division - C-Flux Kiln

You will be contacted approximately eighteen (18) months prior to the expiration date regarding the renewal of this permit. If you are not contacted, please contact the appropriate Ohio EPA District Office or local air agency listed below. This permit and the authorization to operate the air contaminant sources (emissions units) at this facility shall expire at midnight on the expiration date shown above. If a renewal permit is not issued prior to the expiration date, the permittee may continue to operate pursuant to OAC rule 3745-77-08(E) and in accordance with the terms of this permit beyond the expiration date, provided that a complete renewal application is submitted no earlier than eighteen (18) months and no later than one-hundred eighty (180) days prior to the expiration date.

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

Cleveland Division of Air Pollution Control
1925 St. Clair
Cleveland, OH 44114
(216) 664-2324

OHIO ENVIRONMENTAL PROTECTION AGENCY



Christopher Jones
Director

PART I - GENERAL TERMS AND CONDITIONS

A. State and Federally Enforceable Section

1. Monitoring and Related Record Keeping and Reporting Requirements

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

i. The date, place (as defined in the permit), and time of sampling or measurements.
ii. The date(s) analyses were performed.
iii. The company or entity that performed the analyses.
iv. The analytical techniques or methods used.
v. The results of such analyses.
vi. The operating conditions existing at the time of sampling or measurement.
(Authority for term: OAC rule 3745-77-07(A)(3)(b)(i))

b. Each record of any monitoring data, testing data, and support information required pursuant to this permit shall be retained for a period of five years from the date the record was created. Support information shall include all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. Such records may be maintained in computerized form.
(Authority for term: OAC rule 3745-77-07(A)(3)(b)(ii))

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

i. Reports of any required monitoring and/or record keeping information shall be submitted to the appropriate Ohio EPA District Office or local air agency.
(Authority for term: OAC rule 3745-77-07(A)(3)(c))

ii. **All reporting required in accordance with the OAC rule 3745-77-07(A)(3)(c) with respect to emission limitations, operational restrictions, and control device operating parameter limitations shall be submitted in the following manner:**

(a) Written reports of (i) any deviations from federally enforceable emission limitations, operational restrictions, and control device operating parameter limitations ; (ii) the probable cause of such deviations; and (iii) any corrective actions or preventive measures taken, shall be promptly made to the appropriate Ohio EPA District Office or local air agency. Except as may otherwise be provided in the terms and conditions for a specific emissions unit, i.e., in Part III of this Title V permit, the written reports shall be submitted quarterly, i.e., by January 31, April 30, July 31, and October 31 of each year, and shall cover the previous calendar quarters. 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. These written reports shall satisfy the requirements (in part) of OAC rule 3745-77-07(A)(3)(c)(i) and (ii) pertaining to the submission of monitoring reports every six

months and the requirements (in part) of OAC rule 3745-77-07(A)(3)(c)(iii) pertaining to the prompt reporting of all deviations. See B.6 below if no deviations occurred during the quarter.
(Authority for term: OAC rules 3745-77-07(A)(3)(c)(i) ,(ii) and (iii))

(b) 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 deviation reporting requirements for this Title V permit, written reports that identify each malfunction that occurred during each calendar quarter shall be submitted, at a minimum, quarterly, i.e., by January 31, April 30, July 31, and October 31 of each year, and shall cover the previous calendar quarters.

In identifying each deviation caused by a malfunction, the permittee shall specify the applicable requirement 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. Also, if a deviation caused by a malfunction is identified in a written report submitted pursuant to paragraph (a) above, a separate report is not required for that malfunction pursuant to this paragraph. Nevertheless, all malfunctions, including those reported only verbally in accordance with OAC rule 3745-15-06, must be reported in writing, at a minimum, on a quarterly basis.

Any scheduled maintenance, as defined in OAC rule 3745-15-06(A)(1), that results in a deviation from a federally enforceable emission limitation, operational restriction, and control device operating parameter limitation shall be reported in the same manner as described above for malfunctions. These written reports for malfunctions (and scheduled maintenance projects, if appropriate) shall satisfy the requirements (in part) of OAC rule 3745-77-07(A)(3)(c)(iii) pertaining to the prompt reporting of all deviations.
(Authority for term: OAC rules 3745-77-07(A)(3)(c)(iii))

iii. **For monitoring, record keeping, and reporting requirements:**
Written reports that identify any deviations from the federally enforceable monitoring, record keeping, and reporting requirements contained in this permit shall be submitted to the appropriate Ohio EPA District Office or local air agency every six months, i.e., by January 31 and July 31 of each year, for the previous six calendar months. 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. These semi-annual written reports shall satisfy the requirements of OAC rule 3745-77-07(A)(3)(c)(i) and (ii) pertaining to the reporting of any deviations related to the monitoring, record keeping, and reporting requirements. If no deviations occurred during a six-month period, the permittee shall submit a semi-annual report which states that no deviations occurred during that period.
(Authority for term: OAC rules 3745-77-07(A)(3)(c)(i) and (ii))

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

report (including any written malfunction reports required by OAC rule 3745-15-06 that are referenced in the deviation reports) are true, accurate, and complete."
(Authority for term: OAC rule 3745-77-07(A)(3)(c)(iv))

2. Scheduled Maintenance/Malfunction Reporting

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. The malfunction of any emissions unit(s) 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 OAC rule 3745-15-06, 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).
(Authority for term: OAC rule 3745-77-07(A)(3)(c)(iii))

3. Risk Management Plans

If applicable, the permittee shall develop and register a risk management plan pursuant to section 112(r) of the Clean Air Act, as amended, 42 U.S.C. § 7401 et seq. ("Act"); and, pursuant to 40 C.F.R. 68.215(a), the permittee shall submit either of the following:

a. a compliance plan for meeting the requirements of 40 C.F.R. Part 68 by the date specified in 40 C.F.R. 68.10(a) and OAC 3745-104-05(A); or

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

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

4. Title IV Provisions

If the permittee is subject to the requirements of 40 CFR Part 72 concerning acid rain, the permittee shall ensure that any affected emissions unit complies with those requirements. Emissions exceeding any allowances that are lawfully held under Title IV of the Act, or any regulations adopted thereunder, are prohibited.
(Authority for term: OAC rule 3745-77-07(A)(5))

5. Severability Clause

A determination that any term or condition of this permit is invalid shall not invalidate the force or effect of any other term or condition thereof, except to the extent that any other term or condition depends in whole or in part for its operation or implementation upon the term or condition declared invalid.
(Authority for term: OAC rule 3745-77-07(A)(6))

6. General Requirements

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

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

c. This permit may be modified, reopened, revoked, or revoked and reissued, for cause, in accordance with A.10 below. The filing of a request by the permittee for a permit modification, revocation and reissuance, or revocation, or of a notification of planned changes or anticipated noncompliance does not stay any term and condition of this permit.

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

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

(Authority for term: OAC rule 3745-77-07(A)(7))

7. Fees

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

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

8. Marketable Permit Programs

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

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

9. Reasonably Anticipated Operating Scenarios

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

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

10. Reopening for Cause

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

a. Additional applicable requirements under the Act become applicable to one or more emissions units covered by this permit, and this permit has a remaining term of three or more years. Such a reopening shall be completed not later than eighteen (18) months after promulgation of the applicable requirement.

No such reopening is required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions has been extended pursuant to paragraph (E)(1) of OAC rule 3745-77-08.

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

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

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

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

11. Federal and State Enforceability

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

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

12. Compliance Requirements

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

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

i. At reasonable times, enter upon the permittee's premises where a source is located or the emissions-related activity is conducted, or where records must be kept under the conditions of this permit.

ii. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit, subject to the protection from disclosure to the public of confidential information consistent with paragraph (E) of OAC rule 3745-77-03.

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

iv. As authorized by the Act, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit and applicable requirements.

c. The permittee shall submit progress reports to the appropriate Ohio EPA District Office or local air agency concerning any schedule of compliance for meeting an applicable requirement. Progress reports shall be submitted semiannually, or more frequently if specified in the applicable requirement or by the Director of the Ohio EPA. Progress reports shall contain the following:

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

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

i. Compliance certifications shall be submitted annually on a calendar year basis. The annual certification shall be submitted on or before April 30th of each year during the permit term.
ii. Compliance certifications shall include the following:
(a) An identification of each term or condition of this permit that is the basis of the certification.
(b) The permittee's current compliance status.
(c) Whether compliance was continuous or intermittent.
(d) The method(s) used for determining the compliance status of the source currently and over the required reporting period.
(e) Such other facts as the Director of the Ohio EPA may require in the permit to determine the compliance status of the source.
iii. Compliance certifications shall contain such additional requirements as may be specified pursuant to sections 114(a)(3) and 504(b) of the Act.

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

13. Permit Shield

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

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

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

14. Operational Flexibility

The permittee is authorized to make the changes identified in OAC rule 3745-77-07(H)(1)(a) to (H)(1)(c) within the permitted stationary source without obtaining a permit revision, if such change is not a modification

under any provision of Title I of the Act [as defined in OAC rule 3745-77-01(JJ)], and does not result in an exceedance of the emissions allowed under this permit (whether expressed therein as a rate of emissions or in terms of total emissions), and the permittee provides the Administrator of the U.S. EPA and the appropriate Ohio EPA District Office or local air agency with written notification within a minimum of seven days in advance of the proposed changes, unless the change is associated with, or in response to, emergency conditions. If less than seven days notice is provided because of a need to respond more quickly to such emergency conditions, the permittee shall provide notice to the Administrator of the U.S. EPA and the appropriate District Office of the Ohio EPA or local air agency as soon as possible after learning of the need to make the change. The notification shall contain the items required under OAC rule 3745-77-07(H)(2)(d).
(Authority for term: OAC rules 3745-77-07(H)(1) and (2))

15. Emergencies

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

16. Off-Permit Changes

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

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

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

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

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

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

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

(I) of rule 3745-77-07 of the Administrative Code shall affect any applicable obligation under Chapter 3745-31 of the Administrative Code.

(For purposes of clarification, the permittee can refer to Engineering Guide #63 that is available in the STARSHIP software package.)
(Authority for term: OAC rule 3745-77-07(I))

17. Compliance Method Requirements

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

18. Insignificant Activities

Each insignificant activity that has one or more applicable requirements shall comply with those applicable requirements.
(Authority for term: OAC rule 3745-77-07(A)(1))

19. Permit to Install Requirement

Prior to the "installation" or "modification" of any "air contaminant source," as those terms are defined in OAC rule 3745-31-01, a permit to install must be obtained from the Ohio EPA pursuant to OAC Chapter 3745-31.
(Authority for term: OAC rule 3745-77-07(A)(1))

20. Air Pollution Nuisance

The air contaminants emitted by the emissions units covered by this permit shall not cause a public nuisance, in violation of OAC rule 3745-15-07.
(Authority for term: OAC rule 3745-77-07(A)(1))

B. *State Only Enforceable Section*

1. Reporting Requirements Related to Monitoring and Record Keeping Requirements

The permittee shall submit required reports in the following manner:

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

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

2. Records Retention Requirements

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

3. Inspections and Information Requests

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

4. Scheduled Maintenance/Malfunction Reporting

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. The malfunction of any emissions units or any associated air pollution control system(s) shall be reported to the appropriate Ohio EPA District Office or local air agency in accordance with

paragraph (B) of OAC rule 3745-15-06. Except as provided in that rule, any scheduled maintenance or malfunction necessitating the shutdown or bypassing of any air pollution control system(s) shall be accompanied by the shutdown of the emissions unit(s) that is (are) served by such control system(s).

5. Permit Transfers

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

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

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

Part II - Specific Facility Terms and Conditions

A. State and Federally Enforcable Section

1. The permittee may be subject to the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Engine Test Cells/Stands, 40 CFR Part 63, Subpart PPPPP; Miscellaneous Metal parts and Products, 40 CFR Part 63, Subpart MMMM; Industrial, Commercial and Institutional Boilers and Process Heaters, 40 CFR Part 63, Subpart DDDDD; and Reciprocating Internal Combustion Engines (RICE), 40 CFR Part 63, Subpart ZZZZ. U.S. EPA failed to promulgate these standards by May 15, 2002, the Maximum Achievable Control Technology (MACT) hammer date. In accordance with 40 CFR Part 63, Subpart B (40 CFR Parts 63.50 through 63.56), the permittee shall submit an application to revise the permit to include equivalent emission limitations as a result of a case-by-case MACT determination. The application shall be submitted in two parts. The deadline to submit the Part I application, as specified in 40 CFR Part 63.53, was May 15, 2002.

2. If the final NESHAP standard is not promulgated by the deadline specified by U.S. EPA, the permittee shall submit the Part II application as specified in 40 CFR Part 63.53. The Part II application shall be submitted within 60 days after the deadline to promulgate the respective standard or by May 15, 2003, whichever is later. It must contain the following information, unless otherwise specified by future U.S. EPA regulations:

2.a for a new affected source, the anticipated date of startup of operation;

2.b the hazardous air pollutants (HAPs) emitted by each affected source in the relevant source category and an estimated total uncontrolled and controlled emission rate for HAPs from the affected source;

2.c any existing federal, State, or local limitations or requirements applicable to the affected source;

2.d for each affected emission point or group of affected emission points, an identification of control technology in place;

2.e information relevant to establishing the MACT floor (or MACT emission limitation), and, at the option of the permittee, a recommended MACT floor; and

2.f any other information reasonably needed by the permitting authority including, at the discretion of the permitting authority, information required pursuant to Subpart A of 40 CFR Part 63.

3. The Part II application for a MACT determination may, but is not required to, contain the following information:

3.a recommended emission limitations for the affected source and support information (the permittee may recommend a specific design, equipment, work practice, or operational standard, or combination thereof, as an emission limitation);

3.b a description of the control technologies that would be applied to meet the emission limitation, including technical information on the design, operation, size, estimated control efficiency and any other information deemed appropriate by the permitting authority, and identification of the affected sources to which the control technologies must be applied; and

3.c relevant parameters to be monitored and frequency of monitoring to demonstrate continuous compliance with the MACT emission limitation over the applicable reporting period.

4. If the NESHAP is promulgated before the Part II application is due for the relevant source category, the permittee may be subject to the rule as an existing major source with a compliance date as specified in the NESHAP. If subject, the permittee shall submit the following notifications:

A. State and Federally Enforcable Section (continued)

4.a Unless otherwise specified in the relevant Subpart, within 120 days after promulgation of a 40 CFR Part 63 Subpart to which the source is subject, the permittee shall submit an Initial Notification Report that contains the following information, in accordance with 40 CFR Part 63.9(b)(2):

i. the name and mailing address of the permittee;

ii. the physical location of the source if it is different from the mailing address;

iii. identification of the relevant MACT standard and the source's compliance date;

iv. a brief description of the nature, design, size, and method of operation of the source, and an identification of the types of emission points within the affected source subject to the relevant standard and the types of HAPs emitted; and

v. a statement confirming the facility is a major source for HAPs.

4.b Unless otherwise specified in the relevant Subpart, within 60 days following completion of any required compliance demonstration activity specified in the relevant Subpart, the permittee shall submit a notification of compliance status that contains the following information:

i. the methods used to determine compliance;

ii the results of any performance tests, visible emission observations, continuous monitoring systems performance evaluations, and/or other monitoring procedures or methods that were conducted;

iii. the methods that will be used for determining continuous compliance, including a description of monitoring and reporting requirements and test methods;

iv. the type and quantity of HAPs emitted by the source, reported in units and averaging times in accordance with the test methods specified in the relevant Subpart;

v. an analysis demonstrating whether the affected source is a major source or an area source;

vi. a description of the air pollution control equipment or method for each emission point, including each control device or method for each HAP and the control efficiency (percent) for each control device or method; and

vii. a statement of whether or not the permittee has complied with the requirements of the relevant Subpart.

B. State Only Enforceable Section

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

B005 - B010 gas-fired air heaters;
B101 - B103 gas/oil-fired boilers;
G001 - gasoline dispensing facility with 4000-gallon aboveground gasoline storage tank;
G002 - gasoline dispensing facility with 4000-gallon aboveground gasoline and diesel storage tank for R&D test cell;
L005 - alkaline solution metal parts washer;
P007 - rotor casting;
P011 - solder softening oven;
P015 - wood and cut-off saws;
P028 - Bowden parts washer;
Z013 - flocker;
Z014 - unloader;
Z015 - stabilizer;
Z016 - Z020 mixers #1-#5;
Z021 - scale car;
Z022 - rod reclaim;
Z023 - extruder skinning line;
Z027 - extruding oven #2;
Z031 - extruding oven #6;
Z033 - extruding oven #8;
Z034 - extruding oven #9;
Z038 - Z039 gas-fired heaters #1 and #2;
Z040 - annealing furnace;
Z044 - Z045 gas-fired heaters #3 and #4;
Z048 - Z055 mixers #6 - #13;
Z056 - 3-IMS Systems machines for plastic injection molding;
Z057 - 65 HP emergency generator;
Z058 - 600 KW emergency generator;
Z059 - 250 grinder operations;
Z060 - lead mallet maker;
Z061 - 77 weld booths;
L005 - metal parts washer;
G003 - gasoline dispensing facility with 6000-gallon aboveground gasoline storage tank;
P033 - iron power process;
P046 - 6 mmBtu/hr natural gas fired heater;
P047 - east transfer stand operation;
K058 - Bay 6 power paint;
L010 - Degreaser 01;
L015 - Degreaser 03;
P905 - plastic molding machine #3082;
P906 - plastic molding machine #3336;
P907 - plastic molding machine #4244;
P908 - plastic molding machine #4844; and
P909 - plastic molding machine #6345.

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

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Boiler 02 (B003)

Activity Description: EP1/2 Boiler #4 - Gas - 50 mmBtu

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
50 mmBtu/hr natural gas-fired boiler, equipped with a low NOx burner	OAC 3745-17-07(A)	20% opacity as a six-minute average, except as provided by rule
	OAC 3745-17-10(B)(1)	0.020 lb of particulate emissions per mmBtu actual heat input
	OAC 3745-31-05(A)(3) (PTI# 13-3459)	4.05 lbs/hr of NOx emissions 3.05 lbs/hr of CO emissions 0.29 lb/hr of OC emissions The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07(A), 3745-17-10(B), 3745-21-08(B), and 3745-23-06(B).
	OAC 3745-21-08(B)	See A.I.2.a below.
	OAC 3745-23-06(B)	See A.I.2.b below.
	40 CFR Part 60, Subpart Dc	See A.I.2.c below.

2. Additional Terms and Conditions

2.a The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 13-3459.

On November 5, 2002, OAC rule 3745-21-08 was revised to delete paragraph (B); therefore, paragraph (B) is no longer part of the State regulations. However, that rule revision has not yet been submitted to the 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 3745-21-08, the requirement to satisfy the "best available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio.

2.b The permittee has satisfied the "latest available control techniques and operating practices" required pursuant to OAC rule 3745-23-06(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 13-3459.

2. Additional Terms and Conditions (continued)

2.c So long as only natural gas is burned, this emissions unit is not subject to the emission limits listed in 40 CFR Part 60, Subpart Dc.

II. Operational Restrictions

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

III. Monitoring and/or Record Keeping Requirements

1. For each day during which the permittee burns a fuel other than natural gas, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.

V. Testing Requirements

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

1.a Emission Limitation:
20% opacity, as a six-minute average

Applicable Compliance Method:
If required, compliance shall be determined by visible emission observations performed in accordance with USEPA Reference Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).

1.b Emission Limitation:
0.020 lb of particulate emissions per mmBtu actual heat input

Applicable Compliance Method:
For the use of natural gas, compliance shall be based upon multiplying the maximum hourly gas burning capacity of the emissions unit (0.050 mmcu.ft/hr) by the AP-42 emission factor* for natural gas (1.9 lbs particulate/mmcu.ft), and dividing by the maximum hourly heat input capacity of the emissions unit (50 mmBtu/hr).

*AP-42, Fifth Edition, Supplement D (7-98), Table 1.4-2

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

1.c Emission Limitation:
4.05 lbs/hr of NOx emissions

Applicable Compliance Method:
Compliance shall be based upon multiplying the maximum hourly gas burning capacity of the emissions unit (50,000 cu.ft/hr) by the AP-42 emission factor* for NOx (50 lbs NOx/million cubic feet for a low NOx burner).

*AP-42, Fifth Edition, Supplement D (7-98), Table 1.4-1

If required, the permittee shall demonstrate compliance with this emission limitation through emission testing performed in accordance with Methods 1-4 and 7 of 40 CFR Part 60, Appendix A.

V. Testing Requirements (continued)

1.d Emission Limitation:
3.05 lbs/hr of CO emissions

Applicable Compliance Method:
Compliance shall be based upon multiplying the maximum hourly gas burning capacity of the emissions unit (50,000 cu.ft/hr) by the AP-42 emission factor* for CO (84 lbs CO/million cubic feet).

*AP-42, Fifth Edition, Supplement D (7-98), Table 1.4-1

If required, the permittee shall demonstrate compliance with this emission limitation through emission testing performed in accordance with Methods 1-4 and 10 of 40 CFR Part 60, Appendix A.

1.e Emission Limitation:
0.29 lb/hr of OC emissions

Applicable Compliance Method:
Compliance shall be based upon multiplying the maximum hourly gas burning capacity of the emissions unit (50,000 cu.ft/hr) by the AP-42 emission factor* for OC (11 lbs OC/million cubic feet).

*AP-42, Fifth Edition, Supplement D (7-98), Table 1.4-1

If required, the permittee shall demonstrate compliance with this emission limitation through emission testing performed in accordance with Methods 1-4 and 25 of 40 CFR Part 60, Appendix A.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Boiler 03 (B011)

Activity Description: EP1/2 Boiler #2 - Gas - 36 mmBtu

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
36 mmBtu/hr natural gas-fired boiler	OAC 3745-17-07(A)	The visible emission limitation specified by this rule is less stringent than the visible emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC 3745-17-10(B)(1)	0.020 lb of particulate emissions per million Btu actual heat input
	OAC 3745-31-05(A)(3) (PTI#13-2932)	0.1 lb of NOx emissions per mmBtu actual heat input (This limitation is equivalent to 3.6 lbs/hr of NOx emissions.) Opacity shall not exceed 5%, as a six-minute average, except for one six-minute period in any hour when up to 27% is permissible. The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-10(B), 3745-21-08(B), and 3745-23-06(B).
	OAC 3745-21-08(B)	See A.I.2.a below.
	OAC 3745-23-06(B)	See A.I.2.b below.
	40 CFR Part 60, Subpart Dc	See A.I.2.c below.

2. Additional Terms and Conditions

2.a The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 13-2932.

On November 5, 2002, OAC rule 3745-21-08 was revised to delete paragraph (B); therefore, paragraph (B) is no longer part of the State regulations. However, that rule revision has not yet been submitted to the 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 3745-21-08, the requirement to satisfy the "best available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio.

2.b The permittee has satisfied the "latest available control techniques and operating practices" required pursuant to OAC rule 3745-23-06(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 13-2932.

2.c So long as only natural gas is burned, this emissions unit is not subject to the emission limits listed in 40 CFR Part 60, Subpart Dc.

II. Operational Restrictions

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

III. Monitoring and/or Record Keeping Requirements

1. For each day during which the permittee burns a fuel other than natural gas, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.

V. Testing Requirements

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

1.a Emission Limitation:
0.020 lb particulate emissions per mmBtu actual heat input

Applicable Compliance Method:
For the use of natural gas, compliance shall be based upon multiplying the maximum hourly gas burning capacity of the emissions unit (0.036 mmcu.ft/hr) by the AP-42 emission factor* for natural gas (1.9 lbs particulate/mmcu.ft), and dividing by the maximum hourly heat input capacity of the emissions unit (36 mmBtu/hr).

*AP-42, Fifth Edition, Supplement D (7-98), Table 1.4-2

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

1.b Emission Limitation:
5% opacity as a six-minute average

Applicable Compliance Method:
If required, compliance shall be determined by visible emission observations performed in accordance with USEPA Reference Method 9.

V. Testing Requirements (continued)

1.c Emission Limitation:
0.1 lb of NOx emissions per mmBtu actual heat input

Applicable Compliance Method:
Compliance shall be determined by multiplying the AP-42 emission factor* for natural gas (32 lbs/mmcu.ft) by the maximum hourly gas burning capacity (0.036 mmcu.ft/hr) of the emissions unit and dividing by the maximum heat input capacity of the boiler (36 mmBtu/hr).

*AP-42, Fifth Edition, Supplement D (7-98), Table 1.4-1

If required, the permittee shall demonstrate compliance with this emission limitation through emission testing performed in accordance with Methods 1-4 and 7 of 40 CFR Part 60, Appendix A.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Boiler 04 (B012)

Activity Description: EP1/2 Boiler #3 - Gas - 36 mmBtu

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
36 mmBtu/hr natural gas-fired boiler	OAC 3745-17-07(A)	The visible emission limitation specified by this rule is less stringent than the visible emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC 3745-17-10(B)(1)	0.020 lb of particulate emissions per million Btu actual heat input
	OAC 3745-31-05(A)(3) (PTI#13-2932)	0.1 lb of NOx emissions per mmBtu actual heat input (This limitation is equivalent to 3.6 lbs/hr of NOx emissions.) Opacity shall not exceed 5%, as a six-minute average, except for one six-minute period in any hour when up to 27% is permissible. The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-10(B), 3745-21-08(B), and 3745-23-06(B).
	OAC 3745-21-08(B)	See A.I.2.a below.
	OAC 3745-23-06(B)	See A.I.2.b below.
	40 CFR Part 60, Subpart Dc	See A.I.2.c below.

2. Additional Terms and Conditions

2.a The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 13-2932.

On November 5, 2002, OAC rule 3745-21-08 was revised to delete paragraph (B); therefore, paragraph (B) is no longer part of the State regulations. However, that rule revision has not yet been submitted to the 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 3745-21-08, the requirement to satisfy the "best available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio.

2.b The permittee has satisfied the "latest available control techniques and operating practices" required pursuant to OAC rule 3745-23-06(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 13-2932.

2.c So long as only natural gas is burned, this emissions unit is not subject to the emission limits listed in 40 CFR Part 60, Subpart Dc.

II. Operational Restrictions

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

III. Monitoring and/or Record Keeping Requirements

1. For each day during which the permittee burns a fuel other than natural gas, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.

V. Testing Requirements

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

1.a Emission Limitation:
0.020 lb particulate emissions per mmBtu actual heat input

Applicable Compliance Method:
For the use of natural gas, compliance shall be based upon multiplying the maximum hourly gas burning capacity of the emissions unit (0.036 mmcu.ft/hr) by the AP-42 emission factor* for natural gas (1.9 lbs particulate/mmcu.ft), and dividing by the maximum hourly heat input capacity of the emissions unit (36 mmBtu/hr).

*AP-42, Fifth Edition, Supplement D (7-98), Table 1.4-2

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

1.b Emission Limitation:
5% opacity as a six-minute average

Applicable Compliance Method:
If required, compliance shall be determined by visible emission observations performed in accordance with USEPA Reference Method 9.

V. Testing Requirements (continued)

1.c Emission Limitation:
0.1 lb of NOx emissions per mmBtu actual heat input

Applicable Compliance Method:
Compliance shall be determined by multiplying the AP-42 emission factor* for natural gas (32 lbs/mmcu.ft) by the maximum hourly gas burning capacity (0.036 mmcu.ft/hr) of the emissions unit and dividing by the maximum heat input capacity of the boiler (36 mmBtu/hr).

*AP-42, Fifth Edition, Supplement D (7-98), Table 1.4-1

If required, the permittee shall demonstrate compliance with this emission limitation through emission testing performed in accordance with Methods 1-4 and 7 of 40 CFR Part 60, Appendix A.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: EP4 Heater #7 (B013)

Activity Description: EP4 Heater #7

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
10.93 mmBtu/hr direct natural gas-fired make up air heater for space heating - EP4 Heater #7	OAC rule 3745-31-05(A)(3) (PTI#13-3746)	1.07 lbs/hr of NOx emissions, and 4.67 TPY 0.90 lb/hr of CO emissions, and 3.94 TPY 0.96 TPY of PM/PM10 emissions The requirements of this rule also include compliance with the requirements of OAC rules 3745-21-08(B) and 3745-23-06(B).
	OAC rule 3745-17-11(B)(1)	None, see A.I.2.a below.
	OAC rule 3745-17-07(A)	None, see A.I.2.b below.
	OAC 3745-21-08(B)	See A.I.2.c below.
	OAC 3745-23-06(B)	See A.I.2.d below.

2. Additional Terms and Conditions

2.a The uncontrolled mass rate of particulate emissions from this emissions unit is less than 10 pounds per hour. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(a)(ii), Figure II of OAC rule 3745-17-11 does not apply. In addition, Table I of OAC rule 3745-17-11 does not apply because the process weight, as defined in OAC rule 3745-17-01(B)(14), is equal to zero.

2.b This emissions unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(A) pursuant to OAC rule 3745-17-07(A)(3)(h) because the emissions unit is not subject to the requirements of OAC rule 3745-17-11.

2. Additional Terms and Conditions (continued)

2.c The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 13-3746.

On November 5, 2002, OAC rule 3745-21-08 was revised to delete paragraph (B); therefore, paragraph (B) is no longer part of the State regulations. However, that rule revision has not yet been submitted to the 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 3745-21-08, the requirement to satisfy the "best available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio.

2.d The permittee has satisfied the "latest available control techniques and operating practices" required pursuant to OAC rule 3745-23-06(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 13-3746.

II. Operational Restrictions

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

III. Monitoring and/or Record Keeping Requirements

1. For each day during which the permittee burns a fuel other than natural gas, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.

V. Testing Requirements

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

1.a Emission Limitation:
0.96 TPY of PM/PM10 emissions

Applicable Compliance Method:
The TPY emission rate will be based on multiplying the maximum hourly gas burning capacity (0.010 mmcu.ft/hr) of the emissions unit by the emission factor* for PM/PM10 (7.6 lbs/mmcu. ft) by the factor (8760 hrs/yr) and by the factor (1.0 ton/2000 lbs).

*U.S. EPA reference document AP-42, 5th edition Compilation of Air Pollution Emission Factors Section 1.4 Table 1.4-2 (7/98)

1.b Emission Limitation:
1.07 lbs/hr of NOx emissions

Applicable Compliance Method:
Compliance with the hourly emission limit shall be determined by multiplying the emission factor* for NOx (100 lb/mmcu.ft) by the maximum hourly gas burning capacity (0.010 mmcu.ft/hr) of the emissions unit.

*U.S. EPA reference document AP-42, 5th edition Compilation of Air Pollution Emission Factors Section 1.4 Table 1.4-1 (7/98)

If required, the permittee shall demonstrate compliance with this emission limitation through emission testing performed in accordance with Methods 1-4 and 7 of 40 CFR Part 60, Appendix A.

V. Testing Requirements (continued)

1.c Emission Limitation:
4.67 TPY of NOx emissions

Applicable Compliance Method:
The TPY emission rate will be based on multiplying the above lb/hr emission rate calculated in section A.V.1.b by the factor (8760 hrs/yr) and by the factor (1.0 ton/2000 lbs).

1.d Emission Limitation:
0.90 lb/hr of CO emissions

Applicable Compliance Method:
Compliance with the hourly emission limit shall be determined by multiplying the emission factor* for CO (84 lb/mmcu.ft) by the maximum hourly gas burning capacity (0.010 mmcu.ft/hr) of the emissions unit.

*U.S. EPA reference document AP-42, 5th edition Compilation of Air Pollution Emission Factors Section 1.4 Table 1.4-1 (7/98)

If required, the permittee shall demonstrate compliance with this emission limitation through emission testing performed in accordance with Methods 1-4 and 10 of 40 CFR Part 60, Appendix A.

1.e Emission Limitation:
3.97 TPY of CO emissions

Applicable Compliance Method:
The TPY emission rate will be based on multiplying the above lb/hr emission rate calculated in section A.V.1.d by the factor (8760 hrs/yr) and by the factor (1.0 ton/2000 lbs).

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: EP4 Heater #8 (B014)

Activity Description: EP4 Heater #8

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
10.93 mmBtu/hr direct natural gas-fired make up air heater for space heating - EP4 Heater #8	OAC rule 3745-31-05(A)(3) (PTI#13-3746)	1.07 lbs/hr of NOx emissions, and 4.67 TPY 0.90 lb/hr of CO emissions, and 3.94 TPY 0.96 TPY of PM/PM10 emissions The requirements of this rule also include compliance with the requirements of OAC rules 3745-21-08(B) and 3745-23-06(B).
	OAC 3745-17-11(B)(1)	None, see A.I.2.a below.
	OAC 3745-17-07(A)	None, see A.I.2.b below.
	OAC 3745-21-08(B)	See A.I.2.c below.
	OAC 3745-23-06(B)	See A.I.2.d below.

2. Additional Terms and Conditions

2.a The uncontrolled mass rate of particulate emissions from this emissions unit is less than 10 pounds per hour. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(a)(ii), Figure II of OAC rule 3745-17-11 does not apply. In addition, Table I of OAC rule 3745-17-11 does not apply because the process weight, as defined in OAC rule 3745-17-01(B)(14), is equal to zero.

2.b This emissions unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(A) pursuant to OAC rule 3745-17-07(A)(3)(h) because the emissions unit is not subject to the requirements of OAC rule 3745-17-11.

2. Additional Terms and Conditions (continued)

2.c The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 13-3746.

On November 5, 2002, OAC rule 3745-21-08 was revised to delete paragraph (B); therefore, paragraph (B) is no longer part of the State regulations. However, that rule revision has not yet been submitted to the 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 3745-21-08, the requirement to satisfy the "best available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio.

2.d The permittee has satisfied the "latest available control techniques and operating practices" required pursuant to OAC rule 3745-23-06(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 13-3746.

II. Operational Restrictions

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

III. Monitoring and/or Record Keeping Requirements

1. For each day during which the permittee burns a fuel other than natural gas, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.

V. Testing Requirements

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

1.a Emission Limitation:
0.96 TPY of PM/PM10 emissions

Applicable Compliance Method:
The TPY emission rate will be based on multiplying the maximum hourly gas burning capacity (0.010 mmcu.ft/hr) of the emissions unit by the emission factor* for PM/PM10 (7.6 lbs/mmcu. ft) by the factor (8760 hrs/yr) and by the factor (1.0 ton/2000 lbs).

*U.S. EPA reference document AP-42, 5th edition Compilation of Air Pollution Emission Factors Section 1.4 Table 1.4-2 (7/98)

1.b Emission Limitation:
1.07 lbs/hr of NOx emissions

Applicable Compliance Method:
Compliance with the hourly emission limit shall be determined by multiplying the emission factor* for NOx (100 lb/mmcu.ft) by the maximum hourly gas burning capacity (0.010 mmcu.ft/hr) of the emissions unit.

*U.S. EPA reference document AP-42, 5th edition Compilation of Air Pollution Emission Factors Section 1.4 Table 1.4-1 (7/98)

If required, the permittee shall demonstrate compliance with this emission limitation through emission testing performed in accordance with Methods 1-4 and 7 of 40 CFR Part 60, Appendix A.

V. Testing Requirements (continued)

1.c Emission Limitation:
4.67 TPY of NOx emissions

Applicable Compliance Method:
The TPY emission rate will be based on multiplying the above lb/hr emission rate calculated in section A.V.1.b by the factor (8760 hrs/yr) and by the factor (1.0 ton/2000 lbs).

1.d Emission Limitation:
0.90 lb/hr of CO emissions

Applicable Compliance Method:
Compliance with the hourly emission limit shall be determined by multiplying the emission factor* for CO (84 lb/mmcu.ft) by the maximum hourly gas burning capacity (0.010 mmcu.ft/hr) of the emissions unit.

*U.S. EPA reference document AP-42, 5th edition Compilation of Air Pollution Emission Factors Section 1.4 Table 1.4-1 (7/98)

If required, the permittee shall demonstrate compliance with this emission limitation through emission testing performed in accordance with Methods 1-4 and 10 of 40 CFR Part 60, Appendix A.

1.e Emission Limitation:
3.97 TPY of CO emissions

Applicable Compliance Method:
The TPY emission rate will be based on multiplying the above lb/hr emission rate calculated in section A.V.1.d by the factor (8760 hrs/yr) and by the factor (1.0 ton/2000 lbs).

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Ore Pit (F001)

Activity Description: Electrode Division - #2 Ore Pit

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
rail car unloader Particulate emissions are controlled by a baghouse.	OAC rule 3745-17-07(A)	Visible particulate emissions from any stack shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.
	OAC rule 3745-17-11(B)(1)	30.5 lbs/hr of particulate emissions
	OAC rule 3745-17-07(B)	Visible particulate emissions of fugitive dust from the railcar unloading shall not exceed 20% opacity as a 3-minute average.
	OAC rule 3745-17-08(B)(3)(b)	See A.I.2.a below.

2. Additional Terms and Conditions

2.a The permittee shall minimize or eliminate visible fugitive particulate emissions through the employment of reasonably available control measures (RACM). These measures shall include, but not be limited to, the following:

i. the installation and use of enclosures vented to a baghouse; and

ii. the collection efficiency shall be sufficient to minimize or eliminate visible particulate emissions of fugitive dust at the point(s) of capture to the extent possible with good engineering design.

II. Operational Restrictions

1. The pressure drop across the baghouse shall be maintained within the range of 1.0 to 7.0 inches of water while the emissions unit is in operation.

The operation of the control equipment outside the range specified above may or may not indicate a mass emission and/or visible emission violation. If required by the Ohio EPA, compliance with the mass emission limitation and visible emission limitation shall be determined by performing concurrent mass emission tests and visible emissions readings, using US EPA - approved methods and procedures. The results of any required emission tests and visible emission readings shall be used in determining whether or not the operation of the control equipment outside the range specified above is indicative of a possible violation of the mass emission limitation and/or visible emission limitation.

III. Monitoring and/or Record Keeping Requirements

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

2. The permittee shall perform weekly checks for visible particulate emissions from the non-stack egress points from the building housing this emissions unit. These egress points shall include, but not be limited to: doorways, windows, and roof monitors. 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 minimize or eliminate the visible emissions.

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

IV. Reporting Requirements

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

2. The quarterly deviation reports shall be submitted in accordance with General Term and Condition A.1.c.ii of this permit.

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

V. Testing Requirements

1. Compliance with the emission limitations/control requirements in sections A.I.1 and A.I.2 of these terms and conditions shall be determined in accordance with the following methods:

1.a Emission Limitation:
Visible particulate emissions from any stack shall not exceed 20% opacity as a 6-minute average.

Applicable Compliance Method:
If required, compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).

V. Testing Requirements (continued)

1.b Emission Limitation:
Visible particulate emissions of fugitive dust from the railcar unloading shall not exceed 20% opacity as a 3-minute average.

Applicable Compliance Method:
If required, compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(3). The points of observation for the visible emissions shall include any non-stack egress points from the building housing this emissions unit. Such egress points shall include, but are not limited to, doorways, windows, and roof monitors.

1.c Emission Limitation:
30.5 lbs/hr of particulate emissions

Applicable Compliance Method:
Compliance may be determined by multiplying the emissions units maximum hourly material handling rate of 20 tons/hr and the combined uncontrolled Ohio EPA RACM emission factors in Table 2.9-1 for feed materials receiving and feed materials transfer to storage [(1.5 lbs/ton)x(1 - 0.999)] where 99.9% is the baghouse removal efficiency.

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

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Paint Dip 02 (K010)

Activity Description: Machine Division - Bay 1

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
paint dip #2 tank for coating of welder coils	OAC 3745-21-09 (U)(1)(c)	3.5 pounds of VOC per gallon, excluding water and exempt solvents

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following information for each month for the dip tank:

a. The name and identification number of each material added to the dip tank.

b. The VOC content, excluding water and exempt solvents, in pounds per gallon, of each material added to the dip tank.

IV. Reporting Requirements

1. The permittee shall notify the Director (the appropriate Ohio EPA District Office or local air agency) in writing of any monthly record showing that the VOC content of any material exceeded the applicable limitation. 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.

V. Testing Requirements

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

1.a Emission Limitation:
3.5 lbs of VOC per gallon of coating, excluding water and exempt solvents

Applicable Compliance Method:
Compliance shall be based upon the record keeping requirement in Section A.lll.

V. Testing Requirements (continued)

2. USEPA Method 24 shall be used to determine the VOC contents of the materials added to the dip tank.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Varnish Dip 05 (K012)

Activity Description: Maintenance EP4

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
varnish dip tank #5 for coating large armatures	OAC 3745-21-09(U)(2)(e)(ii)	See A.I.2.a and A.II.1 below.

2. Additional Terms and Conditions

2.a Although the requirements of OAC rule 3745-21-09(U) allow for an exemption from applicable VOC content limitations, the daily usage exemption allowed in accordance with OAC rule 3745-21-09(U)(2)(e)(ii) is not part of the federally-approved SIP (for the Cleveland/Akron ozone area). The rule has been revised to reflect an exemption level (3 gallons per day) that is acceptable to USEPA. Therefore, the 3 gallons per day usage restriction shall apply as the exemption level while OAC rule 3745-21-09(U) is being approved by USEPA, as well as after USEPA approval.

II. Operational Restrictions

1. The maximum daily coating usage for this emissions unit shall not exceed 3 gallons.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following information each day for the dip tank:

a. the name and identification number of each coating employed;

b. the volume, in gallons, of each coating employed; and

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

IV. Reporting Requirements

1. The permittee shall notify the Director (the appropriate District Office or local air agency) in writing of any daily record showing that the dip tank employs more than the applicable maximum daily usage limit. The notification shall include a copy of such record and shall be sent to the Director (the appropriate District Office or local air agency) within 45 days after the exceedance occurs.

V. Testing Requirements

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

V. Testing Requirements (continued)

1.a Emission Limitation:
less than or equal to 3 gallons per day coating usage

Applicable Compliance Method:
Compliance shall be based upon the record keeping specified in Section A.III.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Paint Dip 03 (K014)

Activity Description: Machine Division - Bay 3

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
paint dip #3 tank for coating of welder coils	OAC 3745-21-09 (U)(1)(c)	3.5 pounds of VOC per gallon, excluding water and exempt solvents

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following information for each month for the dip tank:

a. The name and identification number of each material added to the dip tank.

b. The VOC content, excluding water and exempt solvents, in pounds per gallon, of each material added to the dip tank.

IV. Reporting Requirements

1. The permittee shall notify the Director (the appropriate Ohio EPA District Office or local air agency) in writing of any monthly record showing that the VOC content of any material exceeded the applicable limitation. 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.

V. Testing Requirements

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

1.a Emission Limitation:
3.5 lbs of VOC per gallon of coating excluding water and exempt solvents

Applicable Compliance Method:
Compliance shall be based upon the record keeping requirement in Section A.lll.

V. Testing Requirements (continued)

2. USEPA Method 24 shall be used to determine the VOC contents of the materials added to the dip tank.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Paint Dip 04 (K015)

Activity Description: Machine Division - Bay 5

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
paint dip #4 tank for coating of welder coils	OAC 3745-21-09 (U)(1)(c)	3.5 pounds of VOC per gallon, excluding water and exempt solvents
	OAC 3745-31-05(A)(3) (PTI#13-1024)	The requirements established pursuant to this rule are equivalent to the requirements of OAC rule 3745-21-09 (U)(1)(c).

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following information for each month for the dip tank:

a. The name and identification number of each material added to the dip tank.

b. The VOC content, excluding water and exempt solvents, in pounds per gallon, of each material added to the dip tank.

IV. Reporting Requirements

1. The permittee shall notify the Director (the appropriate Ohio EPA District Office or local air agency) in writing of any monthly record showing that the VOC content of any material exceeded the applicable limitation. 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.

V. Testing Requirements

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

V. Testing Requirements (continued)

1.a Emission Limitation:
3.5 lbs of VOC per gallon of coating excluding water and exempt solvents

Applicable Compliance Method:
Compliance shall be based upon the record keeping requirement in Section A.lll.

2. USEPA Method 24 shall be used to determine the VOC contents of the materials added to the dip tank.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Paint Dip 06 (K018)

Activity Description: Machine Division - Bay 10

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
paint dip #6 tank for coating of welder coils	OAC 3745-21-09 (U)(1)(c)	3.5 pounds of VOC per gallon, excluding water and exempt solvents

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following information for each month for the dip tank:

a. The name and identification number of each material added to the dip tank.

b. The VOC content, excluding water and exempt solvents, in pounds per gallon, of each material added to the dip tank.

IV. Reporting Requirements

1. The permittee shall notify the Director (the appropriate Ohio EPA District Office or local air agency) in writing of any monthly record showing that the VOC content of any material exceeded the applicable limitation. 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.

V. Testing Requirements

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

1.a Emission Limitation:
3.5 lbs of VOC per gallon of coating excluding water and exempt solvents

Applicable Compliance Method:
Compliance shall be based upon the record keeping requirement in Section A.lll.

V. Testing Requirements (continued)

2. USEPA Method 24 shall be used to determine the VOC contents of the materials added to the dip tank.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Paint Spray Booth 03 (K026)

Activity Description: Machine Division - Bay 3

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
paint spray booth #3 for coating of welder case parts	OAC 3745-17-07(A)	20% opacity as a six-minute average, except as provided by rule
	OAC 3745-21-09(U)(1)(c)	3.5 pounds of VOC per gallon, excluding water and exempt solvents
	OAC 3745-17-11(B)	0.551 lb/hr of particulate emissions
	OAC 3745-31-05(A)(3) (PTI# 13-1025)	The requirements established pursuant to this rule are equivalent to the requirements of OAC rules 3745-17-07(A), 3745-17-11(B), and 3745-21-09(U).

2. Additional Terms and Conditions

None

II. Operational Restrictions

1. The permittee shall operate and maintain the dry filtration system when this emissions unit is in operation.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following information for each month for this emissions unit:

a. The name and identification number of each coating, as applied.

b. The VOC content (excluding water and exempt solvents) of each coating, as applied.

2. The permittee shall maintain daily records and document any time periods when the dry filtration system was not in service when this emissions unit was in operation.

IV. Reporting Requirements

1. The permittee shall notify the Director (the appropriate Ohio EPA District Office or local air agency) in writing of any monthly record showing that the VOC content of any coating exceeded the applicable limitation. The notification shall include a copy of such record and shall be sent to the Director (the appropriate Ohio EPA District Office or local air agency) within 45 days after the exceedance occurs.

2. The permittee shall notify the Director (the appropriate District Office or local air agency) in writing of any record showing that the dry filtration system was not in service when the emissions unit was in operation. The notification shall include a copy of such record and shall be sent to the Director (the appropriate District Office or local air agency) within 30 days after the event occurs.

V. Testing Requirements

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

1.a Emission Limitation:
3.5 lbs of VOC per gallon of coating excluding water and exempt solvents

Applicable Compliance Method:
Compliance shall be based upon the record keeping requirement in Section A.lll.

1.b Emission Limitation:
0.551 lb/hr of particulate emissions

Applicable Compliance Method:
To determine the actual worst case particulate emissions rate, the following equation shall be used:

E = maximum coating solids usage rate in pounds per hour X (1-TE) X (1-CE)

E = particulate emissions rate (lbs/hr)

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

CE = fractional control efficiency of the control equipment

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

1.c Emission Limitation:
20% 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 and the procedures specified in OAC rule 3745-17-03(B)(1).

2. USEPA Method 24 shall be used to determine the VOC contents of the coatings.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Paint Spray Booth 04 (K029)

Activity Description: TEMPORARILY SHUT DOWN

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
paint spray booth #4 for coating of metal brackets	OAC 3745-17-07(A)	20% opacity as a six-minute average, except as provided by rule
	OAC 3745-21-09(U)(2)(e)(ii)	See A.I.2.a and A.II.1 below.
	OAC 3745-17-11(B)	0.551 lb/hr of particulate emissions
	OAC 3745-31-05(A)(3) (PTI# 13-1025)	The requirements established pursuant to this rule are equivalent to the requirements of OAC rules 3745-17-07(A), 3745-17-11(B), and 3745-21-09(U).

2. Additional Terms and Conditions

2.a Although the requirements of OAC rule 3745-21-09(U) allow for an exemption from applicable VOC content limitations, the daily usage exemption allowed in accordance with OAC rule 3745-21-09(U)(2)(e)(ii) is not part of the federally-approved SIP (for the Cleveland/Akron ozone area). The rule has been revised to reflect an exemption level (3 gallons per day) that is acceptable to USEPA. Therefore, the 3 gallons per day usage restriction shall apply as the exemption level while OAC rule 3745-21-09(U) is being approved by USEPA, as well as after USEPA approval.

II. Operational Restrictions

1. The maximum daily coating usage for this emissions unit shall not exceed 3 gallons.

2. The permittee shall operate the water curtain system for the control of paint overspray when this emissions unit is in operation.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following information each day for this emissions unit:

a. the name and identification number of each coating employed;

b. the volume, in gallons, of each coating employed; and

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

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

2. The permittee shall maintain daily records and document any time periods when the water curtain system was not in service when this emissions unit was in operation.

IV. Reporting Requirements

1. The permittee shall notify the Director (appropriate District Office or local air agency) in writing of any daily record showing that this emissions unit employs more than the applicable maximum daily usage limit. The notification shall include a copy of such record and shall be sent to the Director (appropriate District Office or local air agency) within 45 days after the exceedance occurs.

2. The permittee shall notify the Director (the appropriate District Office or local air agency) in writing of any record showing that the water curtain system was not in service when the emissions unit was in operation. The notification shall include a copy of such record and shall be sent to the Director (the appropriate District Office or local air agency) within 30 days after the event occurs.

V. Testing Requirements

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

1.a Emission Limitation:
less than or equal to 3 gallons per day coating usage

Applicable Compliance Method:
Compliance shall be based upon the record keeping specified in Section A.III.

1.b Emission Limitation:
0.551 lb/hr of particulate emissions

Applicable Compliance Method:
To determine the actual worst case particulate emissions rate, the following equation shall be used:

E = maximum coating solids usage rate in pounds per hour X (1-TE) X (1-CE)

E = particulate emissions rate (lbs/hr)

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

CE = fractional control efficiency of the control equipment

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

1.c Emission Limitation:
20% 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 and the procedures specified in OAC rule 3745-17-03(B)(1).

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Paint Spray Booth 05 (K031)

Activity Description: Machine Division - Bay 23A

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
paint spray booth #5 for coating metal armatures	OAC 3745-17-07(A)	20% opacity as a six-minute average, except as provided by rule
	OAC 3745-21-09(U)(1)(c)	3.5 pounds of VOC per gallon, excluding water and exempt solvents
	OAC 3745-17-11(B)	0.551 lb/hr of particulate emissions
	OAC 3745-31-05(A)(3) (PTI# 13-1025)	The requirements established pursuant to this rule are equivalent to the requirements of OAC rules 3745-17-07(A), 3745-17-11(B), and 3745-21-09(U).

2. Additional Terms and Conditions

None

II. Operational Restrictions

1. The permittee shall operate and maintain the dry filtration system when this emissions unit is in operation.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following information for each month for this emissions unit:

a. The name and identification number of each coating, as applied.

b. The VOC content (excluding water and exempt solvents) of each coating, as applied.

2. The permittee shall maintain daily records and document any time periods when the dry filtration system was not in service when this emissions unit was in operation.

IV. Reporting Requirements

1. The permittee shall notify the Director (the appropriate Ohio EPA District Office or local air agency) in writing of any monthly record showing that the VOC content of any coating exceeded the applicable limitation. The notification shall include a copy of such record and shall be sent to the Director (the appropriate Ohio EPA District Office or local air agency) within 45 days after the exceedance occurs.

2. The permittee shall notify the Director (the appropriate District Office or local air agency) in writing of any record showing that the dry filtration system was not in service when the emissions unit was in operation. The notification shall include a copy of such record and shall be sent to the Director (the appropriate District Office or local air agency) within 30 days after the event occurs.

V. Testing Requirements

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

1.a Emission Limitation:
3.5 lbs of VOC per gallon of coating excluding water and exempt solvents

Applicable Compliance Method:
Compliance shall be based upon the record keeping requirement in Section A.lll.

1.b Emission Limitation:
0.551 lb/hr of particulate emissions

Applicable Compliance Method:
To determine the actual worst case particulate emissions rate, the following equation shall be used:

E = maximum coating solids usage rate in pounds per hour X (1-TE) X (1-CE)

E = particulate emissions rate (lbs/hr)

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

CE = fractional control efficiency of the control equipment

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

1.c Emission Limitation:
20% 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 and the procedures specified in OAC rule 3745-17-03(B)(1).

2. USEPA Method 24 shall be used to determine the VOC contents of the coatings.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Paint Spray Booth 07 (K038)

Activity Description: Machine Division - Bay 12

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
paint spray booth #7	OAC 3745-17-07(A)	20% opacity as a six-minute average, except as provided by rule
	OAC 3745-21-09(U)(1)(c)	3.5 pounds of VOC per gallon, excluding water and exempt solvents
	OAC 3745-17-11(B)	0.551 lb/hr of particulate emissions
	OAC 3745-31-05(A)(3) (PTI# 13-1025)	The requirements established pursuant to this rule are equivalent to the requirements of OAC rules 3745-17-07(A), 3745-17-11(B), and 3745-21-09(U).

2. Additional Terms and Conditions

None

II. Operational Restrictions

1. The permittee shall operate and maintain the dry filtration system when this emissions unit is in operation.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following information for each month for this emissions unit:

a. The name and identification number of each coating, as applied.

b. The VOC content (excluding water and exempt solvents) of each coating, as applied.

2. The permittee shall maintain daily records and document any time periods when the dry filtration system was not in service when this emissions unit was in operation.

IV. Reporting Requirements

1. The permittee shall notify the Director (the appropriate Ohio EPA District Office or local air agency) in writing of any monthly record showing that the VOC content of any coating exceeded the applicable limitation. The notification shall include a copy of such record and shall be sent to the Director (the appropriate Ohio EPA District Office or local air agency) within 45 days after the exceedance occurs.

2. The permittee shall notify the Director (the appropriate District Office or local air agency) in writing of any record showing that the dry filtration system was not in service when the emissions unit was in operation. The notification shall include a copy of such record and shall be sent to the Director (the appropriate District Office or local air agency) within 30 days after the event occurs.

V. Testing Requirements

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

1.a Emission Limitation:
3.5 lbs of VOC per gallon of coating excluding water and exempt solvents

Applicable Compliance Method:
Compliance shall be based upon the record keeping requirement in Section A.lll.

1.b Emission Limitation:
0.551 lb/hr of particulate emissions

Applicable Compliance Method:
To determine the actual worst case particulate emissions rate, the following equation shall be used:

E = maximum coating solids usage rate in pounds per hour X (1-TE) X (1-CE)

E = particulate emissions rate (lbs/hr)

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

CE = fractional control efficiency of the control equipment

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

1.c Emission Limitation:
20% 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 and the procedures specified in OAC rule 3745-17-03(B)(1).

2. USEPA Method 24 shall be used to determine the VOC contents of the coatings.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Paint Spray Booth 12 (K048)

Activity Description: Machine Division - Bay 23F

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
paint spray booth #12 for coating of miscellaneous metal parts	OAC 3745-17-07(A)	20% opacity as a six-minute average, except as provided by rule
	OAC 3745-21-09(U)(1)(c)	3.5 pounds of VOC per gallon, excluding water and exempt solvents
	OAC 3745-17-11(B)	0.551 lb/hr of particulate emissions
	OAC 3745-31-05(A)(3) (PTI# 13-1025)	The requirements established pursuant to this rule are equivalent to the requirements of OAC rules 3745-17-07(A), 3745-17-11(B), and 3745-21-09(U).

2. Additional Terms and Conditions

None

II. Operational Restrictions

1. The permittee shall operate and maintain the dry filtration system when this emissions unit is in operation.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following information for each month for this emissions unit:

a. The name and identification number of each coating, as applied.

b. The VOC content (excluding water and exempt solvents) of each coating, as applied.

2. The permittee shall maintain daily records and document any time periods when the dry filtration system was not in service when this emissions unit was in operation.

IV. Reporting Requirements

1. The permittee shall notify the Director (the appropriate Ohio EPA District Office or local air agency) in writing of any monthly record showing that the VOC of any coating content exceeded the applicable limitation. The notification shall include a copy of such record and shall be sent to the Director (the appropriate Ohio EPA District Office or local air agency) within 45 days after the exceedance occurs.

2. The permittee shall notify the Director (the appropriate District Office or local air agency) in writing of any record showing that the dry filtration system was not in service when the emissions unit was in operation. The notification shall include a copy of such record and shall be sent to the Director (the appropriate District Office or local air agency) within 30 days after the event occurs.

V. Testing Requirements

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

1.a Emission Limitation:
3.5 lbs of VOC per gallon of coating excluding water and exempt solvents

Applicable Compliance Method:
Compliance shall be based upon the record keeping requirement in Section A.lll.

1.b Emission Limitation:
0.551 lb/hr of particulate emissions

Applicable Compliance Method:
To determine the actual worst case particulate emissions rate, the following equation shall be used:

E = maximum coating solids usage rate in pounds per hour X (1-TE) X (1-CE)

E = particulate emissions rate (lbs/hr)

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

CE = fractional control efficiency of the control equipment

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

1.c Emission Limitation:
20% 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 and the procedures specified in OAC rule 3745-17-03(B)(1).

2. USEPA Method 24 shall be used to determine the VOC contents of the coatings.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Paint Spray Booth 17 (K059)

Activity Description: Machine Division - Bay 9 Powder Paint

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
paint spray booth #17 for coating of miscellaneous metal parts	OAC 3745-17-07(A)	20% opacity as a six-minute average, except as provided by rule
	OAC 3745-21-09(U)(1)(c) OAC 3745-31-05(A)(3)	3.5 pounds of VOC per gallon, excluding water and exempt solvents.
	OAC 3745-17-11(B)	0.551 lb/hr of particulate emissions
	OAC 3745-31-05(A)(3) (PTI# 13-1767)	0.85 TPY of VOC The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07(A), 3745-17-11(B), and 3745-21-09(U).

2. Additional Terms and Conditions

None

II. Operational Restrictions

1. The permittee shall operate and maintain the dry filtration system when this emissions unit is in operation.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following information each month for this emissions unit:

a. The name and identification number of each coating, as applied.

b. The VOC content (excluding water and exempt solvents) and the number of gallons (excluding water and exempt solvents) of each coating, as applied.

2. The permittee shall maintain daily records and document any time periods when the dry filtration system was not in service when this emissions unit was in operation.

3. The permittee shall maintain annual records of the total VOC emissions from this emission unit.

IV. Reporting Requirements

1. The permittee shall notify the Director (the appropriate Ohio EPA District Office or local air agency) in writing of any monthly record showing that the VOC content of any coating exceeded the applicable limitation. The notification shall include a copy of such record and shall be sent to the Director (the appropriate Ohio EPA District Office or local air agency) within 45 days after the exceedance occurs.

2. The permittee shall submit annual reports that specify the total emissions of VOC from this emissions unit for the previous calendar year. The reports shall be submitted by April 15 of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual Fee Emission Report.

V. Testing Requirements

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

1.a Emission Limitation:
3.5 lbs of VOC per gallon of coating excluding water and exempt solvents

Applicable Compliance Method:
Compliance shall be based upon the record keeping requirement in Section A.lll.

1.b Emission Limitation:
0.551 lb/hr of particulate emissions

Applicable Compliance Method:
To determine the actual worst case particulate emissions rate, the following equation shall be used:

E = maximum coating solids usage rate in pounds per hour X (1-TE) X (1-CE)

E = particulate emissions rate (lbs/hr)

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

CE = fractional control efficiency of the control equipment

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

1.c Emission Limitation:
20% 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 and the procedures specified in OAC rule 3745-17-03(B)(1).

1.d Emission Limitation:
0.85 TPY of VOC

Applicable Compliance Method:
Compliance shall be based upon the record keeping requirements in Sections A.III.1 and A.III.3.

2. USEPA Method 24 shall be used to determine the VOC contents of the coatings.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Varnish Dip 07 (K060)

Activity Description: Machine Division - Bay 6

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
varnish dip tank #7 for coating of miscellaneous metal parts equipped with a thermal incinerator	OAC 3745-21-09(U)(1)(a)	10.3 pounds of VOC per gallon of coating solids

2. Additional Terms and Conditions

None

II. Operational Restrictions

1. The average combustion temperature within the thermal incinerator, for any 3-hour block of time when the emissions unit is in operation, shall not be more than 50 degrees Fahrenheit below the average temperature during the most recent emission test that demonstrated the emissions unit was in compliance.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall operate and maintain a continuous temperature monitor and recorder which measures and records the combustion temperature within the thermal incinerator when the emissions unit is in operation. Units shall be in degrees Fahrenheit. The monitoring and recording devices shall be capable of accurately measuring the desired parameter. The temperature monitor and recorder shall be calibrated, operated and maintained in accordance with the manufacturer's recommendations, with any modifications deemed necessary by the permittee.

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

2. The permittee shall collect and record the following information for each day for the dip tank and control equipment:

a. The name and identification number of each coating, as applied.

b. The pounds of VOC per gallon of coating solids, as applied, the volume solids content, as applied, and the volume, as applied, of each coating.

c. The daily volume-weighted average VOC content (in pounds of VOC per gallon of coating solids, as applied) of all the coatings. This calculation may be performed at the end of each calendar month.

d. The calculated, controlled VOC emission rate, in pounds of VOC per gallon of coating solids, as applied. The controlled VOC emission rate shall be calculated using (i) either the maximum VOC content or the daily volume-weighted VOC content recorded in accordance with paragraph (c) above and (ii) the overall control efficiency for the control equipment as determined during the most recent emission test that demonstrated that the emissions unit was in compliance. This calculation may be performed at the end of each calendar month.

e. A log or record of operating time for the capture (collection) system, control device, monitoring equipment, and the associated emissions unit.

f. All 3-hour blocks of time during which the average combustion temperature within the thermal incinerator, when the emissions unit was in operation, was more than 50 degrees Fahrenheit below the average temperature during the most recent emission test that demonstrated that the emissions unit was in compliance.

IV. Reporting Requirements

1. The permittee shall notify the Director (the appropriate Ohio EPA District Office or local air agency) in writing of any daily record showing that the calculated, controlled VOC emission rate exceeds the applicable pounds of VOC per gallon of solids limitation. The notification shall include a copy of such record and shall be sent to the Director (the appropriate Ohio EPA District Office or local air agency) within 45 days after the exceedance occurs.

2. The permittee shall submit quarterly temperature deviation (excursion) reports that identify all 3-hour blocks of time during which the average combustion temperature within the thermal incinerator, when the emissions unit was in operation, was more than 50 degrees Fahrenheit below the average temperature during the most recent emission test that demonstrated that the emissions unit was in compliance.

The quarterly deviation reports shall be submitted in accordance with General Term and Condition A.1.c.ii of this permit.

V. Testing Requirements

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

1.a Emission Limitation:
10.3 lbs of VOC per gallon of coating solids

Applicable Compliance Method:
Compliance shall be based upon the record keeping requirement in Section A.lll. and the emission testing specified in Section A.V.2.

V. Testing Requirements (continued)

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

The emission testing shall be conducted within 12 months after issuance of the permit and within 12 months prior to permit expiration.

The emission testing shall be conducted to demonstrate compliance with the allowable VOC emission limitation.

The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): for VOC , Method 25 or 25A of 40 CFR Part 60, Appendix A. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

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

The capture efficiency shall be determined using Methods 204 through 204F, as specified in 40 CFR Part 51, Appendix M, or the permittee may request to use an alternative method or procedure for the determination of capture efficiency in accordance with the USEPA's "Guidelines for Determining Capture Efficiency," dated January 9, 1995. (The Ohio EPA will consider the request, including an evaluation of the applicability, necessity, and validity of the alternative, and may approve the use of the alternative if such approval does not contravene any other applicable requirement.) The control efficiency (i.e., the percent reduction in mass emissions between the inlet and outlet of the control system) shall be determined in accordance with the test methods and procedures specified in OAC rule 3745-21-10. The test methods and procedures selected shall be based on a consideration of the diversity of the organic species present and their total concentration, and on a consideration of the potential presence of interfering gases.

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

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

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

3. USEPA Method 24 shall be used to determine the VOC contents of the coatings.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Varnish Dip 08 (K061)

Activity Description: Machine Division - Bay 1

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
varnish dip tank #8 for coating of miscellaneous metal parts equipped with a thermal incinerator	OAC 3745-21-09(U)(1)(a)	10.3 pounds of VOC per gallon of coating solids

2. Additional Terms and Conditions

None

II. Operational Restrictions

1. The average combustion temperature within the thermal incinerator, for any 3-hour block of time when the emissions unit is in operation, shall not be more than 50 degrees Fahrenheit below the average temperature during the most recent emission test that demonstrated the emissions unit was in compliance.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall operate and maintain a continuous temperature monitor and recorder which measures and records the combustion temperature within the thermal incinerator when the emissions unit is in operation. Units shall be in degrees Fahrenheit. The monitoring and recording devices shall be capable of accurately measuring the desired parameter. The temperature monitor and recorder shall be calibrated, operated and maintained in accordance with the manufacturer's recommendations, with any modifications deemed necessary by the permittee.

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

2. The permittee shall collect and record the following information for each day for the dip tank and control equipment:

a. The name and identification number of each coating, as applied.

b. The pounds of VOC per gallon of coating solids, as applied, the volume solids content, as applied, and the volume, as applied, of each coating.

c. The daily volume-weighted average VOC content (in pounds of VOC per gallon of coating solids, as applied) of all the coatings. This calculation may be performed at the end of each calendar month.

d. The calculated, controlled VOC emission rate, in pounds of VOC per gallon of coating solids, as applied. The controlled VOC emission rate shall be calculated using (i) either the maximum VOC content or the daily volume-weighted VOC content recorded in accordance with paragraph (c) above and (ii) the overall control efficiency for the control equipment as determined during the most recent emission test that demonstrated that the emissions unit was in compliance. This calculation may be performed at the end of each calendar month.

e. A log or record of operating time for the capture (collection) system, control device, monitoring equipment, and the associated emissions unit.

f. All 3-hour blocks of time during which the average combustion temperature within the thermal incinerator, when the emissions unit was in operation, was more than 50 degrees Fahrenheit below the average temperature during the most recent emission test that demonstrated that the emissions unit was in compliance.

IV. Reporting Requirements

1. The permittee shall notify the Director (the appropriate Ohio EPA District Office or local air agency) in writing of any daily record showing that the calculated, controlled VOC emission rate exceeds the applicable pounds of VOC per gallon of solids limitation. The notification shall include a copy of such record and shall be sent to the Director (the appropriate Ohio EPA District Office or local air agency) within 45 days after the exceedance occurs.

2. The permittee shall submit quarterly temperature deviation (excursion) reports that identify all 3-hour blocks of time during which the average combustion temperature within the thermal incinerator, when the emissions unit was in operation, was more than 50 degrees Fahrenheit below the average temperature during the most recent emission test that demonstrated that the emissions unit was in compliance.

The quarterly deviation reports shall be submitted in accordance with General Term and Condition A.1.c.ii of this permit.

V. Testing Requirements

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

1.a Emission Limitation:
10.3 lbs of VOC per gallon of coating solids

Applicable Compliance Method:
Compliance shall be based upon the record keeping requirement in Section A.lll. and the emission testing specified in Section A.V.2.

V. Testing Requirements (continued)

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

The emission testing shall be conducted within 12 months after issuance of the permit and within 12 months prior to permit expiration.

The emission testing shall be conducted to demonstrate compliance with the allowable VOC emission limitation.

The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): for VOC , Method 25 or 25A of 40 CFR Part 60, Appendix A. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

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

The capture efficiency shall be determined using Methods 204 through 204F, as specified in 40 CFR Part 51, Appendix M, or the permittee may request to use an alternative method or procedure for the determination of capture efficiency in accordance with the USEPA's "Guidelines for Determining Capture Efficiency," dated January 9, 1995. (The Ohio EPA will consider the request, including an evaluation of the applicability, necessity, and validity of the alternative, and may approve the use of the alternative if such approval does not contravene any other applicable requirement.) The control efficiency (i.e., the percent reduction in mass emissions between the inlet and outlet of the control system) shall be determined in accordance with the test methods and procedures specified in OAC rule 3745-21-10. The test methods and procedures selected shall be based on a consideration of the diversity of the organic species present and their total concentration, and on a consideration of the potential presence of interfering gases.

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

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

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

3. USEPA Method 24 shall be used to determine the VOC contents of the coatings.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Varnish Dip 12 (K065)

Activity Description: Returned to LECO 5/01 - EP3

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
varnish dip tank #12 for coating of electric motors, equipped with a thermal incinerator	OAC 3745-31-05(A)(3) (PTI#13-3133)	2.08 lbs/hr and 9.12 TPY of VOC emissions no visible emissions greater than 5% opacity as a six-minute average The requirements of this rule also include compliance with the requirements of OAC rule 3745-21-09(U).
	OAC 3745-21-09(U)(1)(a)	10.3 pounds of VOC per gallon of coating solids

2. Additional Terms and Conditions

None

II. Operational Restrictions

1. The average combustion temperature within the thermal incinerator, for any 3-hour block of time when the emissions unit is in operation, shall not be more than 50 degrees Fahrenheit below the average temperature during the most recent emission test that demonstrated the emissions unit was in compliance.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall operate and maintain a continuous temperature monitor and recorder which measures and records the combustion temperature within the thermal incinerator when the emissions unit is in operation. Units shall be in degrees Fahrenheit. The monitoring and recording devices shall be capable of accurately measuring the desired parameter. The temperature monitor and recorder shall be calibrated, operated and maintained in accordance with the manufacturer's recommendations, with any modifications deemed necessary by the permittee.

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

2. The permittee shall collect and record the following information for each day for the dip tank and control equipment:

a. The name and identification number of each coating, as applied.

b. The pounds of VOC per gallon of coating solids, as applied, the volume solids content, as applied, and the volume, as applied, of each coating.

c. The maximum VOC content (in pounds of VOC per gallon of coating solids, as applied) or the daily volume-weighted average VOC content (in pounds of VOC per gallon of coating solids, as applied) of all the coatings. This calculation may be performed at the end of each calendar month.

d. The calculated, controlled VOC emission rate, in pounds of VOC per gallon of coating solids, as applied (the controlled VOC emission rate shall be calculated using (i) either the maximum VOC content or the daily volume-weighted VOC content recorded in accordance with paragraph (c) above and (ii) the overall control efficiency for the control equipment as determined during the most recent emission test that demonstrated that the emissions unit was in compliance). This calculation may be performed at the end of each calendar month.

e. A log or record of operating time for the capture (collection) system, control device, monitoring equipment, and the associated emissions unit.

f. All 3-hour blocks of time during which the average combustion temperature within the thermal incinerator, when the emissions unit was in operation, was more than 50 degrees Fahrenheit below the average temperature during the most recent emission test that demonstrated that the emissions unit was in compliance.

g. The total volume of solids from all coatings employed, in gallons. This calculation may be performed at the end of each calendar month.

h. The total VOC emissions from all coatings employed (i.e., the calculated, controlled VOC emissions rate times the total volume of solids from all coatings employed in the line), in pounds per day. This calculation may be performed at the end of each calendar month.

i. The total hours of operation of this emissions unit.

j. The average hourly VOC emission rate, in pounds per hour (h/i).

3. The permittee shall collect and record the total VOC emissions from all coatings employed, in tons, for this emissions unit for the purpose of determining annual VOC emissions.

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

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

IV. Reporting Requirements

1. The permittee shall notify the Director (the appropriate Ohio EPA District Office or local air agency) in writing of any daily record showing that the calculated, controlled VOC emission rate exceeds the applicable pounds of VOC per gallon of solids limitation. The notification shall include a copy of such record and shall be sent to the Director (the appropriate Ohio EPA District Office or local air agency) within 45 days after the exceedance occurs.

2. The permittee shall submit quarterly temperature deviation (excursion) reports that identify all 3-hour blocks of time during which the average combustion temperature within the thermal incinerator, when the emissions unit was in operation, was more than 50 degrees Fahrenheit below the average temperature during the most recent emission test that demonstrated that the emissions unit was in compliance.

The quarterly deviation reports shall be submitted in accordance with General Term and Condition A.1.c.ii of this permit.

3. The permittee shall submit annual reports that specify the total emissions of VOC from this emissions unit for the previous calandar year. The reports shall be submitted by April 15 of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual Fee Emission Report.

4. The permittee shall submit quarterly deviation (excursion) reports which include an identification of each day during which the average VOC emissions from the coatings exceeds 2.08 pounds per hour and the actual VOC emission rate for each such day.

5. 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 period.

V. Testing Requirements

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

1.a Emission Limitation:
10.3 lbs of VOC per gallon of coating solids

Applicable Compliance Method:
Compliance shall be based upon the record keeping requirement in Section A.lll. and the emission testing specified in Section A.V.2.

1.b Emission Limitations:
2.08 lbs/hr of VOC emissions

Applicable Compliance Method:
Compliance shall be based upon the record keeping specified in Section A.III.

1.c Emission Limitations:
9.12 TPY of VOC emissions

Applicable Compliance Method:
Compliance shall be based upon the record keeping specified in Section A.III.

V. Testing Requirements (continued)

1.d Emission Limitation:
no visible emissions greater than 5% opacity as a six-minute average

Applicable Compliance Method:
If required, compliance with this emission limitation shall be determined through visible emission evaluations performed in accordance with 40 CFR Part 60, Appendix A, Method 9.

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

The emission testing shall be conducted within 12 months after issuance of the permit and within 12 months prior to permit expiration.

The emission testing shall be conducted to demonstrate compliance with the allowable VOC emission limitation.

The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): for VOC , Method 25 or 25A of 40 CFR Part 60, Appendix A. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

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

The capture efficiency shall be determined using Methods 204 through 204F, as specified in 40 CFR Part 51, Appendix M, or the permittee may request to use an alternative method or procedure for the determination of capture efficiency in accordance with the USEPA's "Guidelines for Determining Capture Efficiency," dated January 9, 1995. (The Ohio EPA will consider the request, including an evaluation of the applicability, necessity, and validity of the alternative, and may approve the use of the alternative if such approval does not contravene any other applicable requirement.) The control efficiency (i.e., the percent reduction in mass emissions between the inlet and outlet of the control system) shall be determined in accordance with the test methods and procedures specified in OAC rule 3745-21-10. The test methods and procedures selected shall be based on a consideration of the diversity of the organic species present and their total concentration, and on a consideration of the potential presence of interfering gases.

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

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

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

3. USEPA Method 24 shall be used to determine the VOC contents of the coatings.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Paint Spray Booth 18 (K066)

Activity Description: Machine Division - Bay 23M

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
paint spray booth #18 for coating of engine welders	OAC 3745-21-09(U)(1)(c)	3.5 lbs of VOC per gallon of coating, excluding water and exempt solvents
	OAC 3745-17-07(A)	20% opacity as a six-minute average, except as provided by rule
	OAC 3745-17-11(B)	0.551 lb/hr of particulate emissions
	OAC 3745-31-05(A)(3) (PTI#13-3134)	6.39 TPY of VOC The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07(A), 3745-17-11(B), and 3745-21-09(U).

2. Additional Terms and Conditions

None

II. Operational Restrictions

1. The permittee shall operate and maintain the dry filtration system when this emissions unit is in operation.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain daily records and document any time periods when the dry filtration system was not in service when this emissions unit was in operation.

2. The permittee shall collect and record the following information for each month for this emissions unit:

a. The name and identification number of each coating, as applied.

b. The VOC content (excluding water and exempt solvents) of each coating, as applied.

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

3. The permittee shall collect and record the following information for the purpose of determining annual VOC emissions:

a. The name and identification of each cleanup material employed.

b. The number of gallons of each cleanup material employed.

c. The VOC content of each cleanup material, in pounds per gallon.

d. The total VOC emissions from all coatings and cleanup materials, in tons.

IV. Reporting Requirements

1. The permittee shall notify the Director (the appropriate Ohio EPA District Office or local air agency) in writing of any record showing that the dry filtration system was not in service when the emissions unit was in operation. The notification shall include a copy of such record and shall be sent to the Director (the appropriate Ohio EPA District Office or local air agency) within 30 days after the event occurs.

2. The permittee shall notify the Director (the appropriate Ohio EPA District Office or local air agency) in writing of any monthly record showing that the VOC content of any coating exceeded the applicable limitation. 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.

3. The permittee shall submit annual reports that specify the total emissions of VOC from this emissions unit for the previous calendar year. The reports shall be submitted by April 15 of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual Fee Emission Report.

V. Testing Requirements

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

1.a Emission Limitation:
3.5 lbs of VOC per gallon of coating excluding water and exempt solvents

Applicable Compliance Method:
Compliance shall be based upon the record keeping requirement in Section A.lll.

1.b Emission Limitation:
0.551 lb/hr of particulate emissions

Applicable Compliance Method:
To determine the actual worst case particulate emissions rate, the following equation shall be used:

E = maximum coating solids usage rate in pounds per hour X (1-TE) X (1-CE)

E = particulate emissions rate (lbs/hr)

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

CE = fractional control efficiency of the control equipment

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

V. Testing Requirements (continued)

1.c Emission Limitation:
20% 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 and the procedures specified in OAC rule 3745-17-03(B)(1).

1.d Emission Limitation:
6.39 TPY VOC

Applicable Compliance Method:
Compliance shall be based upon the record keeping specified in Section A.III.3.

2. USEPA Method 24 shall be used to determine the VOC contents of the coatings. USEPA Method 24 or formulation data shall be used to determine the VOC contents of the cleanup materials.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Varnish Dip 11 (K067)

Activity Description: Machine Division - Clean Room Encapsulation Process

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
encapsulation process for coating of printed circuit boards	OAC 3745-21-07(G)(2)	Organic compound (OC) emissions shall not exceed 8 lbs/hr and 40 lbs/day.
	OAC 3745-31-05(A)(3) (PTI#13-3135)	7.3 TPY of OC The requirements of this rule also include compliance with the requirements of OAC rule 3745-21-07(G).
	OAC 3745-21-09(U)	4.3 lbs VOC/gallon of coating, excluding water and exempt solvents.

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following information for each day for the coating operation:

a. The company identification for each coating and photochemically reactive cleanup material employed.

b. The number of gallons of each coating and photochemically reactive cleanup material employed.

c. The organic compound content of each coating and photochemically reactive cleanup material, in pounds per gallon.

d. The total organic compound emission rate for all coatings and photochemically reactive cleanup materials, in pounds per day. This calculation may be performed at the end of each calendar month.

e. The total number of hours the emissions unit was in operation.

f. The average hourly organic compound emission rate for all coatings and photochemically reactive cleanup materials, i.e., (d)/(e), in pounds per hour (average).

[Note: The coating information must be for the coatings as employed, including any thinning solvents added at the emissions unit. Also, the definitions of "photochemically reactive" and "nonphotochemically reactive" are based upon OAC rule 3745-21-01(C)(5).]

2. The permittee shall collect and record the following information for each day for the purpose of determining annual organic compound emissions:

a. The company identification for each nonphotochemically reactive cleanup material employed.

b. The number of gallons of each nonphotochemically reactive cleanup material employed.

c. The organic compound content of each nonphotochemically reactive cleanup material, in pounds per gallon.

d. The total organic compound emission rate for all nonphotochemically reactive cleanup materials, in pounds per day.

3. The permittee shall collect and record the following information for each month for this emissions unit:

a. The daily volume-weighted average VOC content (in pounds of VOC per gallon of coating excluding water and exempt solvents, as applied) of all the coatings.

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports which include the following information:

a. An identification of each day during which the average hourly organic compound emissions from the coatings and photochemically reactive cleanup materials exceeds 8 pounds per hour, and the actual average hourly organic compound emissions for each such day.

b. An identification of each day during which the organic compound emissions from the coatings and photochemically reactive cleanup materials exceeds 40 pounds per day, and the actual organic compound emissions for each such day.

2. The permittee shall also submit annual reports that specify the total emissions of organic compounds from this emissions unit for the previous calendar year. The reports shall be submitted by January 31 of each year.

IV. Reporting Requirements (continued)

3. The permittee shall notify the Director (the appropriate Ohio EPA District Office or local air agency) in writing of any monthly record showing that the daily volume-weighted average VOC content exceeded the applicable limitation. 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.

V. Testing Requirements

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

1.a Emission Limitations:
OC emissions shall not exceed 8 lbs/hr and 40 lbs/day.

Applicable Compliance Method:
Compliance shall be based upon the record keeping requirement in Section A.lll.1.

1.b Emission Limitation:
7.3 TPY of VOC

Applicable Compliance Method:
Sum the total organic compound emission rate for all coatings and photochemically reactive cleanup materials, in pounds per day (Section A.III.1) and the total organic compound emission rate for all nonphotochemically reactive cleanup materials, in pounds per day (Section A.III.2) for the calendar year.

1.c Emission Limitation:
4.3 lbs VOC/gallon of coating, excluding water and exempt solvents

Applicable Compliance Method:
Compliance shall be based upon the record keeping requirement in Section A.III.3.

2. USEPA Method 24 or formulation data shall be used to determine the OC contents of the coatings and cleanup materials.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Paint Spray Booth 20 (K069)

Activity Description: Maintenance Dept EP4 - Paint Booth

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
paint spray booth #20 for maintenance dept.	OAC 3745-17-07(A)	20% opacity as a six-minute average, except as provided by rule
	OAC 3745-21-09(U)(1)(c)	3.5 pounds of VOC per gallon, excluding water and exempt solvents
	OAC 3745-17-11(B)	0.551 lb/hr of particulate emissions
	OAC 3745-31-05(A)(3) (PTI#13-3470)	79.5 lbs/day of VOC, 14.5 TPY VOC 2.41 TPY of particulate emissions The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07(A), 3745-17-11(B), and 3745-21-09(U).

2. Additional Terms and Conditions

None

II. Operational Restrictions

1. The permittee shall operate the dry filtration system when this emissions unit is in operation.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following information each day for this emissions unit:

a. The name and identification number of each coating and cleanup material employed.

b. The volume of each coating employed, in gallons excluding water and exempt solvents.

c. The volume, in gallons, of each cleanup material employed.

d. The VOC content of each cleanup material, in pounds per gallon.

e. The VOC content of each coating, as applied, in pounds per gallon excluding water and exempt solvents.

f. The daily volume-weighted average VOC content (in pounds of VOC per gallon of coating excluding water and exempt solvents, as applied) of all the coatings. This calculation may be performed at the end of each calendar month.

g. The total VOC emissions from all coatings and cleanup materials employed, in pounds per day [summation of (b)(e) + (c)(d) for all the coatings and cleanup material. This calculation may be performed at the end of each calendar month.

2. The permittee shall collect and record the total VOC emissions from all coatings and cleanup materials employed, in tons, for this emissions unit for the purpose of determining annual VOC emissions.

3. The permittee shall maintain daily records that document any time periods when the dry filtration system was not in service when this emissions unit was in operation.

IV. Reporting Requirements

1. The permittee shall notify the Director (the appropriate Ohio EPA District Office or local air agency) in writing of any daily record showing that the daily volume-weighted average VOC content exceeds the applicable limitation. The notification shall include a copy of such record and shall be sent to the Director (the appropriate Ohio EPA District Office or local air agency) within 45 days after the exceedance occurs.

2. The permittee shall notify the Director (the appropriate Ohio EPA District Office or local air agency) in writing of any record showing that the dry filtration system was not in service when the emissions unit was in operation. The notification shall include a copy of such record and shall be sent to the Director (the appropriate Ohio EPA District Office or local air agency) within 30 days after the event occurs.

3. The permittee shall submit annual reports that specify the total emissions of VOC from this emissions unit for the previous calendar year. The reports shall be submitted by April 15 of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual Fee Emission Report.

4. The permittee shall submit deviation (excursion) reports which include an identification of each day during which the VOC emissions from all coatings and cleanup materials exceeds 79.5 pounds per day and the actual VOC emission rate for each such day.

V. Testing Requirements

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

1.a Emission Limitation:
3.5 lbs of VOC per gallon of coating excluding water and exempt solvents

Applicable Compliance Method:
Compliance shall be based upon the record keeping requirement in Section A.lll and using the formula in OAC rule 3745-21-10(B)(9) for Cvoc,2 for the daily volume-weighted average VOC content.

V. Testing Requirements (continued)

1.b Emission Limitation:
0.551 lb/hr of particulate emissions

Applicable Compliance Method:
To determine the actual worst case particulate emissions rate, the following equation shall be used:

E = maximum coating solids usage rate in pounds per hour X (1-TE) X (1-CE)

E = particulate emissions rate (lbs/hr)

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

CE = fractional control efficiency of the control equipment

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

1.c Emission Limitation:
20% 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 and the procedures specified in OAC rule 3745-17-03(B)(1).

1.d Emission Limitations:
79.5 lbs/day, 14.5 TPY of VOC

Applicable Compliance Method:
Compliance shall be based upon the record keeping specified in Section A.III.

1.e Emission Limitation:
2.41 TPY of particulate emissions

Applicable Compliance Method:
Compliance shall be demonstrated by mutiplying the allowable particulate emission rate by 8760 hrs/yr, and dividing by 2000 lbs/ton.

2. USEPA Method 24 shall be used to determine the VOC contents of the coatings.

3. Formulation data or USEPA Method 24 shall be used to determine the VOC contents of the cleanup materials.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Paint Spray Booth 21 (K072)

Activity Description: Armature Spray Paint Touch-Up Canopy - Bay 18A

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
paint spray booth #21	OAC 3745-17-07(A)	20% opacity as a six-minute average, except as provided by rule
	OAC 3745-21-09(U)(1)(c)	3.5 pounds of VOC per gallon, excluding water and exempt solvents
	OAC 3745-17-11(B)	0.551 lb/hr of particulate emissions
	OAC 3745-31-05(A)(3) (PTI# 13-03899)	The requirements established pursuant to this rule are equivalent to the requirements of OAC rules 3745-17-07(A), 3745-17-11(B), and 3745-21-09(U).

2. Additional Terms and Conditions

None

II. Operational Restrictions

1. The permittee shall operate and maintain the dry filtration system when this emissions unit is in operation.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following information for each month for this emissions unit:

a. The name and identification number of each coating, as applied.

b. The VOC content (excluding water and exempt solvents) of each coating, as applied.

2. The permittee shall maintain daily records and document any time periods when the dry filtration system was not in service when this emissions unit was in operation.

IV. Reporting Requirements

1. The permittee shall notify the Director (the appropriate Ohio EPA District Office or local air agency) in writing of any monthly record showing that the VOC content of any coating exceeded the applicable limitation. The notification shall include a copy of such record and shall be sent to the Director (the appropriate Ohio EPA District Office or local air agency) within 45 days after the exceedance occurs.

2. The permittee shall notify the Director (the appropriate District Office or local air agency) in writing of any record showing that the dry filtration system was not in service when the emissions unit was in operation. The notification shall include a copy of such record and shall be sent to the Director (the appropriate District Office or local air agency) within 30 days after the event occurs.

V. Testing Requirements

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

1.a Emission Limitation:
3.5 lbs of VOC per gallon of coating excluding water and exempt solvents

Applicable Compliance Method:
Compliance shall be based upon the record keeping requirement in Section A.lll.

1.b Emission Limitation:
0.551 lb/hr of particulate emissions

Applicable Compliance Method:
To determine the actual worst case particulate emissions rate, the following equation shall be used:

E = maximum coating solids usage rate in pounds per hour X (1-TE) X (1-CE)

E = particulate emissions rate (lbs/hr)

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

CE = fractional control efficiency of the control equipment

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

1.c Emission Limitation:
20% 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 and the procedures specified in OAC rule 3745-17-03(B)(1).

2. USEPA Method 24 shall be used to determine the VOC contents of the coatings.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Paint Dip 08 (K102)

Activity Description: Motor Division - E-Coat System; originally given EPA ID # K002. Owned by Lincoln Electric. Returned to LECO 5/01

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
E-coat line (electrodeposition used in coating miscellaneous parts)	OAC rule 3745-31-05(A)(3) (PTI#13-2924)	3.13 lbs/hr of VOC emissions and 6.09 TPY
		no visible emissions greater than 5% opacity
		See section A.I.2.a.
	OAC rule 3745-21-09(U)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

2. Additional Terms and Conditions

2.a The BAT determination stated in the permit to install requires the use of a coating that contains no more than 1.2 lbs of VOC emissions per gallon of coating, excluding water and exempt solvents.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following information each day for this emissions unit:

a. The name and identification number of each coating and cleanup material employed.

b. The volume of each coating employed, in gallons excluding water and exempt solvents.

c. The volume, in gallons, of each cleanup material employed.

d. The VOC content of each cleanup material, in pounds per gallon.

e. The VOC content of each coating, as applied, in pounds per gallon excluding water and exempt solvents.

f. The daily volume-weighted average VOC content (in pounds of VOC per gallon of coating excluding water and exempt solvents, as applied) of all the coatings. This calculation may be performed at the end of each calendar month.

g. The total VOC emissions from all coatings and cleanup materials employed, in pounds per hour [summation of (b)(e) + (c)(d) for all the coatings and cleanup material. This calculation may be performed at the end of each calendar month.

h. The number of hours of operation.

i. The average hourly emission rate (g/h). This calculation may be performed at the end of each calendar month.

2. The permittee shall collect and record the total VOC emissions from all coatings and cleanup materials employed, in tons, for this emissions unit for the purpose of determining annual VOC emissions.

IV. Reporting Requirements

1. The permittee shall notify the Director (the appropriate Ohio EPA District Office or local air agency) in writing of any daily record showing that the VOC content limitation and/or hourly average VOC emission rate exceed(s) the applicable limitation(s). The notification shall include a copy of such record and shall be sent to the Director (the appropriate Ohio EPA District Office or local air agency) within 45 days after the exceedance occurs.

2. The permittee shall submit annual reports that specify the total emissions of VOC from this emissions unit for the previous calendar year. The reports shall be submitted by April 15 of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual Fee Emission Report.

V. Testing Requirements

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

1.a Emission Limitation:
5% 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 and the procedures specified in OAC rule 3745-17-03(B)(1).

1.b Emission Limitation:
3.13 lbs/hr of VOC emissions

Applicable Compliance Method:
Compliance shall be based upon the record keeping specified in Section A.III.

V. Testing Requirements (continued)

1.c Emission Limitation:
6.09 TPY of VOC emissions

Applicable Compliance Method:
Compliance shall be based upon the record keeping specified in Section A.III.

1.d Emission Limitation:
1.2 lbs of VOC emissions per gallon of coating, excluding water and exempt solvents

Applicable Compliance Method:
Compliance shall be based upon the record keeping specified in Section A.III and using the formula in OAC rule 3745-21-10(B)(9) for Cvoc,1 for the daily volume-weighted average VOC content.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Misc. Source 06 (N001)

Activity Description: Machine Division - Pyrolytic Oven

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
pyrolysis furnace for paint burn-off, equipped with an afterburner	OAC 3745-17-07(A)	The visible emission limitation specified by this rule is less stringent than the visible emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC 3745-17-09(B)	0.10 lb of particulate emissions/100 lbs of material charged
	OAC 3745-31-05(A)(3) (PTI# 13-1442)	no visible emissions The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-09(B).

2. Additional Terms and Conditions

None

II. Operational Restrictions

1. The average combustion temperature within the afterburner shall be maintained at 1400 degrees Fahrenheit or greater during each burn-off cycle.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall operate and maintain a continuous temperature monitor and recorder which measures and records the combustion temperature within the afterburner, in degrees Fahrenheit, during each burn-off cycle. The monitoring and recording devices shall be capable of accurately measuring the desired parameter. The temperature monitor and recorder shall be calibrated, operated and maintained in accordance with the manufacturer's recommendations, with any modifications deemed necessary by the permittee.

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

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

a. All 3-hour blocks of time during which the average combustion temperature within the afterburner, when the emissions unit was in operation, was less than 1400 degrees Fahrenheit.

b. A log of the downtime for the capture (collection) system, control device, and monitoring equipment, when the associated emissions unit was in operation.

3. 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 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.

IV. Reporting Requirements

1. The permittee shall submit quarterly summaries of the following records:

a. All 3-hour blocks of time during which the average combustion temperature within the afterburner, when the emissions unit was in operation, was less than 1400 degrees Fahrenheit.

b. A log of the downtime for the capture (collection) system, control device, and monitoring equipment, when the associated emissions unit was in operation.

These quarterly reports shall be submitted by April 30, July 31, October 31, and January 31, and shall cover the records for the previous calendar quarters.

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

V. Testing Requirements

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

1.a Emission Limitation:
0.10 lb of particulate emissions/100 lbs material of charged

Applicable Compliance Method:
If required, compliance with this emission limitation shall be determined through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5 and the procedures in OAC rule 3745-17-03(B)(8).

1.b Emission Limitation:
no visible emissions

Applicable Compliance Method:
If required, compliance with this emission limitation shall be determined through visible emission evaluations performed in accordance with 40 CFR Part 60, Appendix A, Method 22.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Drier 01 (P020)

Activity Description: Electrode Division - Lime Drier

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
wire coating lime drier, equipped with a wet rotoclone	OAC 3745-17-07(A)	20% opacity as a six-minute average, except as provided by rule
	OAC 3745-17-11(B)	2.0 lbs/hr of particulate emissions

2. Additional Terms and Conditions

None

II. Operational Restrictions

1. The permittee shall operate the wet rotoclone while this emissions unit is in operation.

2. The pressure drop across the wet rotoclone shall be maintained within the range of 5 - 10 inches of water while the emissions unit is in operation.

The operation of the control equipment outside the range specified above may or may not indicate a mass emission and/or visible emission violation. If required by the Ohio EPA, compliance with the mass emission limitation and visible emission limitation shall be determined by performing concurrent mass emission tests and visible emissions readings, using US EPA - approved methods and procedures. The results of any required emission tests and visible emission readings shall be used in determining whether or not the operation of the control equipment outside the range specified above is indicative of a possible violation of the mass emission limitation and/or visible emission limitation.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall properly operate and maintain equipment to monitor the pressure drop across the wet rotoclone while the emissions unit is in operation. The monitoring device shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals.

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

a. The pressure drop across the wet rotoclone, in psig, on a once/day basis.

b. A log or record of the downtime for the capture (collection) system, control device, and monitoring equipment when the associated emissions unit is in operation.

IV. Reporting Requirements

1. The permittee shall notify the Director (the appropriate Ohio EPA District Office or local air agency) in writing of any record showing that the wet rotoclone system was not in service when the emissions unit was in operation. The notification shall include a copy of such record and shall be sent to the Director (the appropriate Ohio EPA District Office or local air agency) within 30 days after the event occurs.

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

The quarterly deviation reports shall be submitted in accordance with General Term and Condition A.1.c.ii of this permit.

V. Testing Requirements

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

1.a Emission Limitation:
20% 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 and the procedures specified in OAC rule 3745-17-03(B)(1).

1.b Emission Limitation:
2.0 lbs/hr of particulate emissions

Applicable Compliance Method:
Compliance shall be based upon the results of the emission testing specified in Section A.V.1.c.

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

The emission testing shall be conducted within 12 months after issuance of this permit and within 12 months prior to permit expiration.

The emission testing shall be conducted to demonstrate compliance with the particulate emission limitation.

The following test methods shall be employed to demonstrate compliance with the particulate emission limitation: Methods 1 through 5 of 40 CFR Part 60, Appendix A. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

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

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

V. Testing Requirements (continued)

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

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

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Kiln 01 (P021)

Activity Description: Electrode Division - Calcining Kiln

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
kiln for drying process material, equipped with an Aerodyne cyclone and wet scrubber	OAC 3745-17-07(A)	20% opacity as a six-minute average, except as provided by rule
	OAC 3745-17-11(B)	6.79 lbs/hr of particulate emissions

2. Additional Terms and Conditions

None

II. Operational Restrictions

1. The pressure drop across the wet scrubber shall be maintained within the range of 11-14 inches of water while the emissions unit is in operation.

The operation of the control equipment outside the range specified above may or may not indicate a mass emission and/or visible emission violation. If required by the Ohio EPA, compliance with the mass emission limitation and visible emission limitation shall be determined by performing concurrent mass emission tests and visible emissions readings, using US EPA - approved methods and procedures. The results of any required emission tests and visible emission readings shall be used in determining whether or not the operation of the control equipment outside the range specified above is indicative of a possible violation of the mass emission limitation and/or visible emission limitation.

2. The permittee shall operate the Aerodyne cyclone and wet scrubber while the emissions unit is in operation.

III. Monitoring and/or Record Keeping Requirements

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

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

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

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

IV. Reporting Requirements

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

The quarterly deviation reports shall be submitted in accordance with General Term and Condition A.1.c.ii of this permit.

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

V. Testing Requirements

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

1.a Emission Limitation:
20% 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 and the procedures specified in OAC rule 3745-17-03(B)(1).

1.b Emission Limitation:
6.79 lbs/hr of particulate emissions

Applicable Compliance Method:
Compliance shall be based upon the results of the emission testing specified in Section A.V.1.c.

V. Testing Requirements (continued)

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

The emission testing shall be conducted within 12 months after issuance of the permit and within 12 months prior to permit expiration.

The emission testing shall be conducted to demonstrate compliance with the particulate emission limitation.

The following test methods shall be employed to demonstrate compliance with the particulate emission limitation: Methods 1 through 5 of 40 CFR Part 60, Appendix A. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

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

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

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

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

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Drier 02 (P022)

Activity Description: Electrode Division - Fluorspar Drier

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
fluorspar drier for flux manufacturing, equipped with a baghouse	OAC 3745-17-07(A)	20% opacity as a six-minute average, except as provided by rule
	OAC 3745-17-11(B)	8.61 lbs/hr of particulate emissions

2. Additional Terms and Conditions

None

II. Operational Restrictions

1. The permittee shall operate the baghouse while this emissions unit is in operation.

2. The pressure drop across the baghouse shall be maintained within the range of 4.5 - 7.5 inches of water while the emissions unit is in operation.

The operation of the control equipment outside the range specified above may or may not indicate a mass emission and/or visible emission violation. If required by the Ohio EPA, compliance with the mass emission limitation and visible emission limitation shall be determined by performing concurrent mass emission tests and visible emissions readings, using US EPA - approved methods and procedures. The results of any required emission tests and visible emission readings shall be used in determining whether or not the operation of the control equipment outside the range specified above is indicative of a possible violation of the mass emission limitation and/or visible emission limitation.

III. Monitoring and/or Record Keeping Requirements

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

IV. Reporting Requirements

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

The quarterly deviation reports shall be submitted in accordance with General Term and Condition A.1.c.ii of this permit.

V. Testing Requirements

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

1.a Emission Limitation:
20% 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 and the procedures specified in OAC rule 3745-17-03(B)(1).

1.b Emission Limitation:
8.61 lbs/hr of particulate emissions

Applicable Compliance Method:
Compliance shall be based upon the results of the emission testing specified in Section A.V.1.c.

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

The emission testing shall be conducted within 12 months after issuance of the permit and within 12 months prior to permit expiration.

The emission testing shall be conducted to demonstrate compliance with the particulate emission limitation.

The following test methods shall be employed to demonstrate compliance with the particulate emission limitation: Methods 1 through 5 of 40 CFR Part 60, Appendix A. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

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

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

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

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

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Kiln 02 (P023)

Activity Description: Electrode Division - Small Direct Fired Kiln

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
kiln for processing of chemicals, equipped with an Aerodyne cyclone	OAC 3745-17-07(A)	20% opacity as a six-minute average, except as provided by rule
	OAC 3745-17-11(B)	1.15 lbs/hr of particulate emissions

2. Additional Terms and Conditions

None

II. Operational Restrictions

1. The permittee shall operate the Aerodyne cyclone while the emissions unit is in operation.

2. The Aerodyne cyclone secondary blower velocity pressure shall be maintained within the range established during the most recent emission test that demonstrated that the emissions unit was in compliance.

The operation of the control equipment outside the range specified above may or may not indicate a mass emission and/or visible emission violation. If required by the Ohio EPA, compliance with the mass emission limitation and visible emission limitation shall be determined by performing concurrent mass emission tests and visible emissions readings, using US EPA - approved methods and procedures. The results of any required emission tests and visible emission readings shall be used in determining whether or not the operation of the control equipment outside the range specified above is indicative of a possible violation of the mass emission limitation and/or visible emission limitation.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall properly operate and maintain equipment to monitor the secondary blower velocity pressure across the Aerodyne cyclone while the emissions unit is in operation. The monitoring equipment shall be calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the secondary blower velocity pressure value across the aerodyne on a daily basis.

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

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

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

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify all periods of time during which the secondary air flow across the Aerodyne cyclone did not comply with the range established during the most recent emission test that demonstrated that the emissions unit was in compliance.

The quarterly deviation reports shall be submitted in accordance with General Term and Condition A.1.c.ii of this permit.

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

V. Testing Requirements

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

1.a Emission Limitation:
20% 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 and the procedures specified in OAC rule 3745-17-03(B)(1).

1.b Emission Limitation:
1.15 lbs/hr of particulate emissions

Applicable Compliance Method:
Compliance shall be based upon the results of the emission testing specified in Section A.V.1.c.

V. Testing Requirements (continued)

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

The emission testing shall be conducted within 12 months after issuance of the permit and within 12 months prior to permit expiration.

The emission testing shall be conducted to demonstrate compliance with the particulate emission limitation.

The following test methods shall be employed to demonstrate compliance with the particulate emission limitation: Methods 1 through 5 of 40 CFR Part 60, Appendix A. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

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

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

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

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

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Drier 03 (P025)

Activity Description: Electrode Division - Ore Drier

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
drier for wet ore, equipped with a baghouse	OAC 3745-17-07(A)	20% opacity as a six-minute average, except as provided by rule
	OAC 3745-17-11(B)	4.03 lbs/hr of particulate emissions

2. Additional Terms and Conditions

None

II. Operational Restrictions

1. The permittee shall operate the baghouse while the emissions unit is in operation.

2. The pressure drop across the baghouse shall be maintained within the range of 2-7 inches of water while the emissions unit is in operation.

The operation of the control equipment outside the range specified above may or may not indicate a mass emission and/or visible emission violation. If required by the Ohio EPA, compliance with the mass emission limitation and visible emission limitation shall be determined by performing concurrent mass emission tests and visible emissions readings, using US EPA - approved methods and procedures. The results of any required emission tests and visible emission readings shall be used in determining whether or not the operation of the control equipment outside the range specified above is indicative of a possible violation of the mass emission limitation and/or visible emission limitation.

III. Monitoring and/or Record Keeping Requirements

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

IV. Reporting Requirements

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

The quarterly deviation reports shall be submitted in accordance with General Term and Condition A.1.c.ii of this permit.

V. Testing Requirements

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

1.a Emission Limitation:
20% 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 and the procedures specified in OAC rule 3745-17-03(B)(1).

1.b Emission Limitation:
4.03 lbs/hr of particulate emissions

Applicable Compliance Method:
Compliance shall be based upon the results of the emission testing specified in Section A.V.1.c.

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

The emission testing shall be conducted within 12 months after issuance of the permit and within 12 months prior to permit expiration.

The emission testing shall be conducted to demonstrate compliance with the particulate emission limitation.

The following test methods shall be employed to demonstrate compliance with the particulate emission limitation: Methods 1 through 5 of 40 CFR Part 60, Appendix A. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

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

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

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

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

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Kiln 03 (P026)

Activity Description: Electrode Division - Large Direct Fired Kiln

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
kiln for processing chemicals, equipped with a baghouse	OAC 3745-17-07(A)	20% opacity as a six-minute average, except as provided by rule
	OAC 3745-17-11(B)	4.10 lbs/hr of particulate emissions
	OAC 3745-31-05(A)(3) (PTI#13-1136)	The requirements established pursuant to this rule are equivalent to the requirements of OAC rules 3745-17-07(A) and 3745-17-11(B).

2. Additional Terms and Conditions

None

II. Operational Restrictions

1. The permittee shall operate the baghouse while the emissions unit is in operation.

2. The pressure drop across the baghouse shall be maintained within the range of 2-6 inches of water while the emissions unit is in operation.

The operation of the control equipment outside the range specified above may or may not indicate a mass emission and/or visible emission violation. If required by the Ohio EPA, compliance with the mass emission limitation and visible emission limitation shall be determined by performing concurrent mass emission tests and visible emissions readings, using US EPA - approved methods and procedures. The results of any required emission tests and visible emission readings shall be used in determining whether or not the operation of the control equipment outside the range specified above is indicative of a possible violation of the mass emission limitation and/or visible emission limitation.

III. Monitoring and/or Record Keeping Requirements

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

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

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

IV. Reporting Requirements

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

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

The quarterly deviation reports shall be submitted in accordance with General Term and Condition A.1.c.ii of this permit.

V. Testing Requirements

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

1.a Emission Limitation:
20% 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 and the procedures specified in OAC rule 3745-17-03(B)(1).

1.b Emission Limitation:
4.10 lbs/hr of particulate emissions

Applicable Compliance Method:
Compliance shall be based upon the results of the emission testing specified in Section A.V.1.c.

V. Testing Requirements (continued)

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

The emission testing shall be conducted within 12 months after issuance of the permit and within 12 months prior to permit expiration.

The emission testing shall be conducted to demonstrate compliance with the particulate emission limitation.

The following test methods shall be employed to demonstrate compliance with the particulate emission limitation: Methods 1 through 5 of 40 CFR Part 60, Appendix A. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

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

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

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

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

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Drier 05 (P029)

Activity Description: Electrode Division - Bake Oven

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
wire bake oven for removal of lubricants on flux welding wire	OAC 3745-17-07(A)	The visible emission limitation specified by this rule is less stringent than the visible emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC 3745-17-11	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC 3745-31-05(A)(3) (PTI# 13-2933)	5% opacity as a six-minute average 1.61 lbs/hr of particulate emissions

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

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

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

IV. Reporting Requirements

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

V. Testing Requirements

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

1.a Emission Limitation:
5% 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.

1.b Emission Limitation:
1.61 lbs/hr of particulate emissions

Applicable Compliance Method:
If required, compliance with this emission limitation shall be determined in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: R&D Engine Test (P031)

Activity Description: Machine R&D - Diesel and Gasoline Engine Welders

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
R&D engine test stand for diesel and gasoline powered welders (not used to operate mechanical equipment)	OAC 3745-17-11(B)(1)	None, see A.I.2.a below.
	OAC 3745-17-07(A)	None, see A.I.2.b below.
	OAC 3745-18-06	None, exempt pursuant to OAC rule 3745-18-06(B).
	OAC 3745-21-08(B)	None, see A.I.2.c below.
	OAC 3745-23-06(B)	None, see A.I.2.d below.
	OAC 3745-31-05(A)(3) (PTI# 13-3136)	Annual emissions from the combustion of gasoline and diesel fuel in this emissions unit shall not exceed the following limitations: 2.03 tons particulate emissions/yr; 1.83 tons of sulfur dioxide/yr; 29.97 tons of nitrogen oxides/yr; and 16.80 tons of organic compounds/yr.

2. Additional Terms and Conditions

2.a The uncontrolled mass rate of particulate emissions from this emissions unit is less than 10 pounds per hour. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(a)(ii), Figure II of OAC rule 3745-17-11 does not apply. In addition, Table I of OAC rule 3745-17-11 does not apply because the process weight, as defined in OAC rule 3745-17-01(B)(14), is equal to zero.

2.b This emissions unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(A) pursuant to OAC rule 3745-17-07(A)(3)(h) because the emissions unit is not subject to the requirements of OAC rule 3745-17-11.

2. Additional Terms and Conditions (continued)

2.c The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 13-3136.

On November 5, 2002, OAC rule 3745-21-08 was revised to delete paragraph (B); therefore, paragraph (B) is no longer part of the State regulations. However, that rule revision has not yet been submitted to the 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 3745-21-08, the requirement to satisfy the "best available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio.

2.d The permittee has satisfied the "latest available control techniques and operating practices" required pursuant to OAC rule 3745-23-06(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 13-3136.

2.e No short-term emission limitations were established in PTI# 13-3136. The annual emission limitations specified in Section A.I.1 reflect the emissions unit's potential to emit for these pollutants; therefore, there are no additional monitoring, record keeping or reporting requirements associated with these emission limitations.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

1. The permittee shall submit annual reports which specify the total emissions of particulates, sulfur dioxide, nitrogen oxides, and organic compounds from this emissions unit for the previous calendar year. The reports shall be submitted by April 15 of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual Fee Emission Report.

V. Testing Requirements

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

1.a Emission Limitations:
2.03 tons particulate emissions/yr
1.83 tons of sulfur dioxide/yr
29.97 tons of nitrogen oxides/yr
16.80 tons of organic compounds/yr

Applicable Compliance Methods:
The annual emission limitations were established by multiplying the worst case hourly emission rates by 8760 hours per year and dividing the total by 2000 lbs/ton. (The maximum uncontrolled hourly emissions were determined using AP-42 emission factors* for gasoline and diesel industrial engines and a maximum fuel usage of 11.3 gallons per hour).

*AP-42, Fifth Edition, Supplement B (10-96), Table 3.3-1

If required, the permittee shall demonstrate compliance with these emission limitations in accordance with the appropriate approved method(s) found in 40 CFR Part 60, Appendix A.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Strip Etch Strip Line (P034)

Activity Description: Strip Etch Strip Line

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
ammonia etchant strip line with condensor	OAC rule 3745-31-05(A)(3) (PTI# 13-3490)	Ammonia emissions shall not exceed 0.5 lb/hr* and 2.2 tons/yr. * The lb/hr emission limitation is based on the emissions unit's potential to emit. Therefore, no record keeping and/or reporting requirements are necessary to ensure compliance with this emission limitation.

2. Additional Terms and Conditions

None

II. Operational Restrictions

1. The permittee shall operate the condenser whenever this emissions unit is in operation.

2. The average temperature of the exhaust gases from the condenser, for any 3-hour block of time, shall not be greater than 120 degrees Fahrenheit.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall operate and maintain a continuous temperature monitor and recorder which measures and records the temperature of the exhaust gases from the condenser when the emissions unit is in operation. Units shall be in degrees Fahrenheit. The accuracy for each thermocouple, monitor, and recorder shall be guaranteed by the manufacturer to be within + 1 percent of the temperature being measured or + 5 degrees Fahrenheit, whichever is greater. The temperature monitor and recorder shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals.

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

a. The average temperature of the exhaust gases from the condenser during each of the 8 3-hour blocks of time during the day.

b. A log or record of operating time for the capture (collection) system, control device, monitoring equipment, and the associated emissions unit.

2. The permittee shall maintain records of the monthly and annual etchant usage for the strip line, in gallons.

IV. Reporting Requirements

1. The permittee shall submit quarterly temperature deviation (excursion) reports that identify all 3-hour blocks of time during which the average temperature of the exhaust gases from the condenser exceeded the temperature limitation specified above.

The quarterly deviation reports shall be submitted in accordance with General Term and Condition A.1.c.ii of this permit.

2. The permittee shall submit annual reports which specify the total emissions of ammonia from this emissions unit for the previous calendar year. The reports shall be submitted by April 15 of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual Fee Emission Report.

V. Testing Requirements

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

1.a Emission Limitation:
Ammonia emissions shall not exceed 0.5 lb/hr.

Applicable Compliance Method:
If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1-4 and Modified Method 5. Alternative EPA approved test methods may be used with prior approval from the Ohio EPA.

1.b Emission Limitation:
Ammonia emissions shall not exceed 2.2 tons/yr.

Applicable Compliance Method:
Compliance shall be determined by multiplying the annual etchant usage for the strip line, in gallons, by the permittee supplied emission factor of 0.1488 lb ammonia/gallon, multiplying by 0.5 (estimated 50% control efficiency for the condensor) and dividing by 2000 lbs/ton.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Engine Welder Burn-In (P035)

Activity Description: Bay 12- Engine Welder Burn-In Station

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
engine test stand for gasoline powered welders (not used to operate mechanical equipment)	OAC 3745-17-11(B)(1)	None, see A.I.2.a below.
	OAC 3745-17-07(A)	None, see A.I.2.b below.
	OAC 3745-18-06	None, exempt pursuant to OAC rule 3745-18-06(B).
	OAC 3745-21-08(B)	None, see A.I.2.c below.
	OAC 3745-23-06(B)	None, see A.I.2.d below.
	OAC 3745-31-05(A)(3) (PTI# 13-3604)	Emissions from the combustion of gasoline in this emissions unit shall not exceed the following limitations: 0.318 lb/hr and 1.39 tons/yr of nitrogen oxides; 0.43 lb/hr and 1.89 tons/yr of organic compounds; 12.96 lbs/hr and 55.6 tons/yr of carbon monoxide; and 0.08 ton particulate emissions/yr.

2. Additional Terms and Conditions

2.a The uncontrolled mass rate of particulate emissions from this emissions unit is less than 10 pounds per hour. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(a)(ii), Figure II of OAC rule 3745-17-11 does not apply. In addition, Table I of OAC rule 3745-17-11 does not apply because the process weight, as defined in OAC rule 3745-17-01(B)(14), is equal to zero.

2.b This emissions unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(A) pursuant to OAC rule 3745-17-07(A)(3)(h) because the emissions unit is not subject to the requirements of OAC rule 3745-17-11.

2. Additional Terms and Conditions (continued)

2.c The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 13-3604.

On November 5, 2002, OAC rule 3745-21-08 was revised to delete paragraph (B); therefore, paragraph (B) is no longer part of the State regulations. However, that rule revision has not yet been submitted to the 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 3745-21-08, the requirement to satisfy the "best available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio.

2.d The permittee has satisfied the "latest available control techniques and operating practices" required pursuant to OAC rule 3745-23-06(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 13-3604.

2.e The emission limitations specified in Section A.I.1 reflect the emissions unit's potentials to emit for these pollutants; therefore, there are no additional monitoring, record keeping or reporting requirements associated with these emission limitations.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

1. The permittee shall submit annual reports which specify the total emissions of nitrogen oxides, organic compounds carbon monoxide, and particulate emissions from this emissions unit for the previous calendar year. The reports shall be submitted by April 15 of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual Fee Emission Report.

V. Testing Requirements

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

1.a Emission Limitations:
0.318 lb/hr and 1.39 tons/yr of nitrogen oxides;
0.43 lb/hr and 1.89 tons/yr of organic compounds;
12.96 lbs/hr and 55.6 tons/yr of carbon monoxide; and
0.08 ton particulate emissions/yr.

Applicable Compliance Methods:
The annual emission limitations were established by multiplying the worst case hourly emission rates by 8760 hours per year and dividing the total by 2000 lbs/ton. (The maximum uncontrolled hourly emissions were determined using AP-42 emission factors* for gasoline industrial engines and the maximum operating rate of 29 hp-hrs/hr).

*AP-42, Fifth Edition, Supplement B (10-96), Table 3.3-1

If required, the permittee shall demonstrate compliance with the hourly emission limitations in accordance with the appropriate approved method(s) found in 40 CFR Part 60, Appendix A.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Oven 12 (P036)

Activity Description: Electode Division - Extruding Oven N

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
14.5 mmBtu/hr indirect natural gas-fired extruding oven	OAC 3745-17-07(A)	The visible emission limitation specified by this rule is less stringent than the visible emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC 3745-17-10(B)(1)	0.020 lb of particulate emissions per million Btu actual heat input
	OAC 3745-31-05(A)(3) (PTI# 13-03706)	1.45 lbs/hr and 6.35 tons/yr of nitrogen oxides emissions; 1.22 lbs/hr and 5.34 tons/yr of carbon monoxide emissions; and 1.27 tons/yr of particulate emissions. 5% opacity as a six minute average The requirements of this rule include compliance with the requirements of OAC rules 3745-17-10(B), 3745-21-08(B), and 3745-23-06(B).
	OAC 3745-21-08(B)	See A.I.2.a below.
	OAC 3745-23-06(B)	See A.I.2.b below.

2. Additional Terms and Conditions

2.a The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 13-03706.

On November 5, 2002, OAC rule 3745-21-08 was revised to delete paragraph (B); therefore, paragraph (B) is no longer part of the State regulations. However, that rule revision has not yet been submitted to the 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 3745-21-08, the requirement to satisfy the "best available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio.

2. Additional Terms and Conditions (continued)

2.b The permittee has satisfied the "latest available control techniques and operating practices" required pursuant to OAC rule 3745-23-06(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 13-03706.

II. Operational Restrictions

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

III. Monitoring and/or Record Keeping Requirements

1. For each day during which the permittee burns a fuel other than natural gas, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.

V. Testing Requirements

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

1.a Emission Limitations:
0.020 lb of particulate emissions per mmBtu actual heat input and
1.27 tons/yr of particulate emissions

Applicable Compliance Method:
Compliance with the lb/mmBtu emission limitation may be based upon multiplying the maximum hourly gas burning capacity of the emissions unit (0.0145 mmcu.ft/hr) by the AP-42 emission factor* for particulates (1.9 lbs particulates/mmcu.ft).

*AP-42, Fifth Edition, Supplement D (7-98), Table 1.4-2

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

The annual emission limitation was established by multiplying the lb/mmBtu emission limitation by the maximum hourly heat input capacity of the emissions unit (14.5 mmBtu/hr) by 8,760 hours per year and dividing by 2,000 pounds per ton. Therefore, if the emissions unit is in compliance with the hourly emission limitation, it is also in compliance with the annual limitation.

V. Testing Requirements (continued)

1.b Emission Limitations:
1.45 lbs/hr and 6.35 tons/yr of nitrogen oxides emissions

Applicable Compliance Methods:
Compliance with the hourly emission limitation may be based upon multiplying the maximum hourly gas burning capacity of the emissions unit (0.0145 mmcu.ft/hr) by the AP-42 emission factor* for NOx (100 lbs NOx/million cubic feet).

*AP-42, Fifth Edition, Supplement D (7-98), Table 1.4-1

If required, the permittee shall demonstrate compliance with the hourly emission limitation through emission testing performed in accordance with Methods 1-4 and 7 of 40 CFR Part 60, Appendix A.

The annual emission limitation was established by multiplying the hourly emission limitation by 8,760 hours per year and dividing by 2,000 pounds per ton. Therefore, if the emissions unit is in compliance with the hourly emission limitation, it is also in compliance with the annual limitation.

1.c Emission Limitations:
1.22 lbs/hr and 5.34 tons/yr of carbon monoxide emissions

Applicable Compliance Methods:
Compliance with the hourly emission limitation may be based upon multiplying the maximum hourly gas burning capacity of the emissions unit (0.0145 mmcu.ft/hr) by the AP-42 emission factor* for CO (84 lbs CO/million cubic feet).

*AP-42, Fifth Edition, Supplement D (7-98), Table 1.4-1

If required, the permittee shall demonstrate compliance with the hourly emission limitation through emission testing performed in accordance with Methods 1-4 and 10 of 40 CFR Part 60, Appendix A.

The annual emission limitation was established by multiplying the hourly emission limitation by 8,760 hours per year and dividing by 2,000 pounds per ton. Therefore, if the emissions unit is in compliance with the hourly emission limitation, it is also in compliance with the annual limitation.

1.d Emission Limitation:
5% opacity as a six minute average

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

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: #1 Roll Crusher Line (P037)

Activity Description: #1 Roll Crusher Line

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
2.5 TPH #1 roll crusher line for crushing and sizing of mineral alloys equipped with a baghouse	OAC 3745-31-05(A)(3) (PTI#13-03711)	0.9 lb/hr of particulate emissions, 3.9 TPY The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A)(1).
	OAC rule 3745-17-07(A)(1)	20% opacity as a six-minute average, except as provided by rule
	OAC rule 3745-17-11(B)(1)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

2. Additional Terms and Conditions

None

II. Operational Restrictions

1. The pressure drop across the baghouse shall be maintained within the range of 2-8 inches of water while the emissions unit is in operation.

The operation of the control equipment outside the range specified above may or may not indicate a mass emission and/or visible emission violation. If required by the Ohio EPA, compliance with the mass emission limitation and visible emission limitation shall be determined by performing concurrent mass emission tests and visible emissions readings, using US EPA - approved methods and procedures. The results of any required emission tests and visible emission readings shall be used in determining whether or not the operation of the control equipment outside the range specified above is indicative of a possible violation of the mass emission limitation and/or visible emission limitation.

III. Monitoring and/or Record Keeping Requirements

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

IV. Reporting Requirements

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

The quarterly deviation reports shall be submitted in accordance with General Term and Condition A.1.c.ii of this permit.

V. Testing Requirements

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

1.a Emission Limitation:
20% opacity, as a six-minute average

Applicable Compliance Method:
If required, compliance shall be determined by visible emission observations performed in accordance with USEPA Reference Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).

1.b Emission Limitation:
0.9 lb/hr of particulate emissions

Applicable Compliance Method:

Compliance with this emission limit may be based on an emission factor of 0.34 pound of particulate emissions per ton of raw material processed which was established through stack testing of the source to arrive at the lb/hr emission rate. These stack tests were performed on September 14, 2000 at a process weight rate of 2000 pounds per hour with an emission rate of 0.34 pound per hour. The emission factor may be used to demonstrate compliance with the hourly allowable emission rate by multiplying the maximum process weight rate (5000 pounds per hour) by the 0.34 pound particulate emissions per ton of materials processed emission factor to equal 0.9 pound particulate emissions per hour.

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

1.c Emission Limitation:
3.9 TPY of particulate emissions

Applicable Compliance Method:
Compliance with this emission limit will be based on multiplying the lb/hr emission rate calculated in section A.V.1.b. by the annual operating hours of the emissions unit and dividing by the factor of (2000 lbs/ton) to arrive at the TPY emission rate.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: #1 Ball Mill (P038)

Activity Description: #1 Ball Mill

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
#1 ball mill Particulate emissions are controlled by a baghouse.	OAC rule 3745-17-07(A)	Visible particulate emissions from any stack shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.
	OAC rule 3745-17-11(B)(1)	4.83 lbs/hr of particulate emissions

2. Additional Terms and Conditions

None

II. Operational Restrictions

1. The pressure drop across the baghouse shall be maintained within the range of 1.0 to 7.0 inches of water while the emissions unit is in operation.

The operation of the control equipment outside the range specified above may or may not indicate a mass emission and/or visible emission violation. If required by the Ohio EPA, compliance with the mass emission limitation and visible emission limitation shall be determined by performing concurrent mass emission tests and visible emissions readings, using US EPA - approved methods and procedures. The results of any required emission tests and visible emission readings shall be used in determining whether or not the operation of the control equipment outside the range specified above is indicative of a possible violation of the mass emission limitation and/or visible emission limitation.

III. Monitoring and/or Record Keeping Requirements

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

IV. Reporting Requirements

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

The quarterly deviation reports shall be submitted in accordance with General Term and Condition A.1.c.ii of this permit.

V. Testing Requirements

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

1.a Emission Limitation:
Visible particulate emissions from any stack shall not exceed 20% opacity as a 6-minute average.

Applicable Compliance Method:
If required, compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).

1.b Emission Limitation:
4.83 lbs/hr of particulate emissions

Applicable Compliance Method:
Compliance with the hourly emission limitation may be determined through the use of the material handling emission factor for bauxite manufacturing (1.1 lbs/ton) which is multiplied by the maximum production rate for the emissions unit (1.99 tons/hr) and (1-0.999) which is the 99.9% baghouse removal efficiency.

*AP-42, Fifth Edition, Supplement D (1/95), Table 11.24-2

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

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: #4 Ball Mill (P039)

Activity Description: #4 Ball Mill

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
#4 ball mill Particulate emissions are controlled by a baghouse.	OAC rule 3745-17-07(A)	Visible particulate emissions from any stack shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.
	OAC rule 3745-17-11(B)(1)	6.50 lbs/hr of particulate emissions

2. Additional Terms and Conditions

None

II. Operational Restrictions

1. The pressure drop across the baghouse shall be maintained within the range of 1.0 to 7.0 inches of water while the emissions unit is in operation.

The operation of the control equipment outside the range specified above may or may not indicate a mass emission and/or visible emission violation. If required by the Ohio EPA, compliance with the mass emission limitation and visible emission limitation shall be determined by performing concurrent mass emission tests and visible emissions readings, using US EPA - approved methods and procedures. The results of any required emission tests and visible emission readings shall be used in determining whether or not the operation of the control equipment outside the range specified above is indicative of a possible violation of the mass emission limitation and/or visible emission limitation.

III. Monitoring and/or Record Keeping Requirements

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

IV. Reporting Requirements

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

The quarterly deviation reports shall be submitted in accordance with General Term and Condition A.1.c.ii of this permit.

V. Testing Requirements

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

1.a Emission Limitation:
Visible particulate emissions from any stack shall not exceed 20% opacity as a 6-minute average.

Applicable Compliance Method:
If required, compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).

1.b Emission Limitation:
6.50 lbs/hr of particulate emissions

Applicable Compliance Method:
Compliance with the hourly emission limitation may be determined through the use of the material handling emission factor for bauxite manufacturing (1.1 lbs/ton) which is multiplied by the maximum production rate for the emissions unit (1.99 tons/hr) and (1-0.999) which is the 99.9% baghouse removal efficiency.

*AP-42, Fifth Edition, Supplement D (1/95), Table 11.24-2

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

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Sweco (P040)

Activity Description: SWECO Screen

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
Sweco screening operation Particulate emissions are controlled by a baghouse.	OAC 3745-31-05(A)(3) (PTI#13-03778)	0.45 lb/hr of particulate emissions, 1.97 TPY The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A).
	OAC rule 3745-17-07(A)	20% opacity as a six-minute average, except as provided by rule
	OAC rule 3745-17-11(B)(1)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

2. Additional Terms and Conditions

None

II. Operational Restrictions

1. The pressure drop across the baghouse shall be maintained within the range of 2-8 inches of water while the emissions unit is in operation.

The operation of the control equipment outside the range specified above may or may not indicate a mass emission and/or visible emission violation. If required by the Ohio EPA, compliance with the mass emission limitation and visible emission limitation shall be determined by performing concurrent mass emission tests and visible emissions readings, using US EPA - approved methods and procedures. The results of any required emission tests and visible emission readings shall be used in determining whether or not the operation of the control equipment outside the range specified above is indicative of a possible violation of the mass emission limitation and/or visible emission limitation.

III. Monitoring and/or Record Keeping Requirements

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

IV. Reporting Requirements

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

The quarterly deviation reports shall be submitted in accordance with General Term and Condition A.1.c.ii of this permit.

V. Testing Requirements

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

1.a Emission Limitation:
20% opacity, as a six-minute average

Applicable Compliance Method:
If required, compliance shall be determined by visible emission observations performed in accordance with USEPA Reference Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).

1.b Emission Limitation:
0.45 lb/hr of particulate emissions

Applicable Compliance Method:
Compliance with the hourly emission limit may be based on use of the U.S. EPA database, FIRE 6.22 emission factor for Stone Quarry Processing secondary screening (0.015 lb/ton) multiplied by the maximum process rate for the emissions unit (30 tons/hr) and multiplied by (1-0.99) to account for the 99%, by weight, design control efficiency of the baghouse.

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

1.c Emission Limitation:
1.97 TPY of particulate emissions

Applicable Compliance Method:
The annual emission limitation was established by multiplying the hourly emission limitation by 8,760 hours per year and dividing by 2,000 pounds per ton. Therefore, if the emissions unit is in compliance with the hourly emission limitation, it is also in compliance with the annual limitation.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Oven 1 (P048)

Activity Description: Electode Division - Extruding Oven B

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
12.0 mmBtu/hr indirect natural gas-fired extruding oven "B"	OAC 3745-17-07(A)	Visible particulate emissions from any stack shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.
	OAC 3745-17-10(B)(1)	0.020 lb of particulate emissions per million Btu actual heat input
	OAC 3745-31-05(A)(3) (PTI# 13-03792)	1.18 lbs/hr and 5.17 tons/yr of nitrogen oxides emissions; 1.07 lbs/hr and 4.67 tons/yr of carbon monoxide emissions; 0.064 lb/hr and 0.28 ton/yr of VOC emissions; and 1.05 tons/yr of particulate emissions. The requirements of this rule include compliance with the requirements of OAC rules 3745-17-07(A), 3745-17-10(B)(1), 3745-21-08(B), and 3745-23-06(B).
	OAC 3745-21-08(B)	See A.I.2.a below.
	OAC 3745-23-06(B)	See A.I.2.b below.

2. Additional Terms and Conditions

2.a The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 13-03792.

On November 5, 2002, OAC rule 3745-21-08 was revised to delete paragraph (B); therefore, paragraph (B) is no longer part of the State regulations. However, that rule revision has not yet been submitted to the 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 3745-21-08, the requirement to satisfy the "best available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio.

2. Additional Terms and Conditions (continued)

2.b The permittee has satisfied the "latest available control techniques and operating practices" required pursuant to OAC rule 3745-23-06(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 13-03792.

II. Operational Restrictions

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

III. Monitoring and/or Record Keeping Requirements

1. For each day during which the permittee burns a fuel other than natural gas, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.

V. Testing Requirements

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

1.a Emission Limitations:
0.020 lb of particulate emissions per mmBtu actual heat input and 1.05 tons/yr of particulate emissions

Applicable Compliance Method:
Compliance with the lb/mmBtu emission limitation may be based upon multiplying the maximum hourly gas burning capacity of the emissions unit (0.0117 mmcu.ft/hr) by the AP-42 emission factor* for particulates (1.9 lbs particulates/mmcu.ft).

*AP-42, Fifth Edition, Supplement D (7-98), Table 1.4-2

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

The annual emission limitation was established by multiplying the lb/mmBtu emission limitation by the maximum hourly heat input capacity of the emissions unit (12.0 mmBtu/hr) by 8,760 hours per year and dividing by 2,000 pounds per ton. Therefore, if the emissions unit is in compliance with the hourly emission limitation, it is also in compliance with the annual limitation.

1.b Emission Limitations:
1.18 lbs/hr and 5.17 tons/yr of nitrogen oxides emissions

Applicable Compliance Methods:
Compliance with the hourly emission limitation may be based upon multiplying the maximum hourly gas burning capacity of the emissions unit (0.0117 mmcu.ft/hr) by the AP-42 emission factor* for NOx (100 lbs NOx/million cubic feet).

*AP-42, Fifth Edition, Supplement D (7-98), Table 1.4-1

If required, the permittee shall demonstrate compliance with the hourly emission limitation through emission testing performed in accordance with Methods 1-4 and 7 of 40 CFR Part 60, Appendix A.

The annual emission limitation was established by multiplying the hourly emission limitation by 8,760 hours per year and dividing by 2,000 pounds per ton. Therefore, if the emissions unit is in compliance with the hourly emission limitation, it is also in compliance with the annual limitation.

V. Testing Requirements (continued)

1.c Emission Limitations:
1.07 lbs/hr and 4.67 tons/yr of carbon monoxide emissions

Applicable Compliance Methods:
Compliance with the hourly emission limitation may be based upon multiplying the maximum hourly gas burning capacity of the emissions unit (0.0117 mmcu.ft/hr) by the AP-42 emission factor* for CO (84 lbs CO/million cubic feet).

*AP-42, Fifth Edition, Supplement D (7-98), Table 1.4-1

If required, the permittee shall demonstrate compliance with the hourly emission limitation through emission testing performed in accordance with Methods 1-4 and 10 of 40 CFR Part 60, Appendix A.

The annual emission limitation was established by multiplying the hourly emission limitation by 8,760 hours per year and dividing by 2,000 pounds per ton. Therefore, if the emissions unit is in compliance with the hourly emission limitation, it is also in compliance with the annual limitation.

1.d Emission Limitations:
0.064 lb/hr and 0.28 ton/yr of VOC emissions

Applicable Compliance Methods:
Compliance with the hourly emission limitation may be based upon multiplying the maximum hourly gas burning capacity of the emissions unit (0.0117 mmcu.ft/hr) by the AP-42 emission factor* for VOC (5.5 lbs VOC/million cubic feet).

*AP-42, Fifth Edition, Supplement D (7-98), Table 1.4-2

If required, the permittee shall demonstrate compliance with the hourly emission limitation through emission testing performed in accordance with Methods 1-4 and 25 of 40 CFR Part 60, Appendix A.

The annual emission limitation was established by multiplying the hourly emission limitation by 8,760 hours per year and dividing by 2,000 pounds per ton. Therefore, if the emissions unit is in compliance with the hourly emission limitation, it is also in compliance with the annual limitation.

1.e Emission Limitation:
Visible particulate emissions from any stack shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.

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

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Oven 3 (P049)

Activity Description: Electode Division - Extruding Oven D

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
12.0 mmBtu/hr indirect natural gas-fired extruding oven "D"	OAC 3745-17-07(A)	Visible particulate emissions from any stack shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.
	OAC 3745-17-10(B)(1)	0.020 lb of particulate emissions per million Btu actual heat input
	OAC 3745-31-05(A)(3) (PTI# 13-03792)	1.18 lbs/hr and 5.17 tons/yr of nitrogen oxides emissions; 1.07 lbs/hr and 4.67 tons/yr of carbon monoxide emissions; 0.064 lb/hr and 0.28 ton/yr of VOC emissions; and 1.05 tons/yr of particulate emissions. The requirements of this rule include compliance with the requirements of OAC rules 3745-17-07(A), 3745-17-10(B)(1), 3745-21-08(B), and 3745-23-06(B).
	OAC 3745-21-08(B)	See A.I.2.a below.
	OAC 3745-23-06(B)	See A.I.2.b below.

2. Additional Terms and Conditions

2.a The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 13-03792.

On November 5, 2002, OAC rule 3745-21-08 was revised to delete paragraph (B); therefore, paragraph (B) is no longer part of the State regulations. However, that rule revision has not yet been submitted to the 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 3745-21-08, the requirement to satisfy the "best available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio.

2. Additional Terms and Conditions (continued)

2.b The permittee has satisfied the "latest available control techniques and operating practices" required pursuant to OAC rule 3745-23-06(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 13-03792.

II. Operational Restrictions

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

III. Monitoring and/or Record Keeping Requirements

1. For each day during which the permittee burns a fuel other than natural gas, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.

V. Testing Requirements

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

1.a Emission Limitations:
0.020 lb of particulate emissions per mmBtu actual heat input and 1.05 tons/yr of particulate emissions

Applicable Compliance Method:
Compliance with the lb/mmBtu emission limitation may be based upon multiplying the maximum hourly gas burning capacity of the emissions unit (0.0117 mmcu.ft/hr) by the AP-42 emission factor* for particulates (1.9 lbs particulates/mmcu.ft).

*AP-42, Fifth Edition, Supplement D (7-98), Table 1.4-2

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

The annual emission limitation was established by multiplying the lb/mmBtu emission limitation by the maximum hourly heat input capacity of the emissions unit (12.0 mmBtu/hr) by 8,760 hours per year and dividing by 2,000 pounds per ton. Therefore, if the emissions unit is in compliance with the hourly emission limitation, it is also in compliance with the annual limitation.

1.b Emission Limitations:
1.18 lbs/hr and 5.17 tons/yr of nitrogen oxides emissions

Applicable Compliance Methods:
Compliance with the hourly emission limitation may be based upon multiplying the maximum hourly gas burning capacity of the emissions unit (0.0117 mmcu.ft/hr) by the AP-42 emission factor* for NOx (100 lbs NOx/million cubic feet).

*AP-42, Fifth Edition, Supplement D (7-98), Table 1.4-1

If required, the permittee shall demonstrate compliance with the hourly emission limitation through emission testing performed in accordance with Methods 1-4 and 7 of 40 CFR Part 60, Appendix A.

The annual emission limitation was established by multiplying the hourly emission limitation by 8,760 hours per year and dividing by 2,000 pounds per ton. Therefore, if the emissions unit is in compliance with the hourly emission limitation, it is also in compliance with the annual limitation.

V. Testing Requirements (continued)

1.c Emission Limitations:
1.07 lbs/hr and 4.67 tons/yr of carbon monoxide emissions

Applicable Compliance Methods:
Compliance with the hourly emission limitation may be based upon multiplying the maximum hourly gas burning capacity of the emissions unit (0.0117 mmcu.ft/hr) by the AP-42 emission factor* for CO (84 lbs CO/million cubic feet).

*AP-42, Fifth Edition, Supplement D (7-98), Table 1.4-1

If required, the permittee shall demonstrate compliance with the hourly emission limitation through emission testing performed in accordance with Methods 1-4 and 10 of 40 CFR Part 60, Appendix A.

The annual emission limitation was established by multiplying the hourly emission limitation by 8,760 hours per year and dividing by 2,000 pounds per ton. Therefore, if the emissions unit is in compliance with the hourly emission limitation, it is also in compliance with the annual limitation.

1.d Emission Limitations:
0.064 lb/hr and 0.28 ton/yr of VOC emissions

Applicable Compliance Methods:
Compliance with the hourly emission limitation may be based upon multiplying the maximum hourly gas burning capacity of the emissions unit (0.0117 mmcu.ft/hr) by the AP-42 emission factor* for VOC (5.5 lbs VOC/million cubic feet).

*AP-42, Fifth Edition, Supplement D (7-98), Table 1.4-2

If required, the permittee shall demonstrate compliance with the hourly emission limitation through emission testing performed in accordance with Methods 1-4 and 25 of 40 CFR Part 60, Appendix A.

The annual emission limitation was established by multiplying the hourly emission limitation by 8,760 hours per year and dividing by 2,000 pounds per ton. Therefore, if the emissions unit is in compliance with the hourly emission limitation, it is also in compliance with the annual limitation.

1.e Emission Limitation:
Visible particulate emissions from any stack shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.

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

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Oven 4 (P050)

Activity Description: Electode Division - Extruding Oven E

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
12.0 mmBtu/hr indirect natural gas-fired extruding oven "E"	OAC 3745-17-07(A)	Visible particulate emissions from any stack shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.
	OAC 3745-17-10(B)(1)	0.020 lb of particulate emissions per million Btu actual heat input
	OAC 3745-31-05(A)(3) (PTI# 13-03792)	1.18 lbs/hr and 5.17 tons/yr of nitrogen oxides emissions; 1.07 lbs/hr and 4.67 tons/yr of carbon monoxide emissions; 0.064 lb/hr and 0.28 ton/yr of VOC emissions; and 1.05 tons/yr of particulate emissions. The requirements of this rule include compliance with the requirements of OAC rules 3745-17-07(A), 3745-17-10(B)(1), 3745-21-08(B), and 3745-23-06(B).
	OAC 3745-21-08(B)	See A.I.2.a below.
	OAC 3745-23-06(B)	See A.I.2.b below.

2. Additional Terms and Conditions

2.a The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 13-03792.

On November 5, 2002, OAC rule 3745-21-08 was revised to delete paragraph (B); therefore, paragraph (B) is no longer part of the State regulations. However, that rule revision has not yet been submitted to the 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 3745-21-08, the requirement to satisfy the "best available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio.

2. Additional Terms and Conditions (continued)

2.b The permittee has satisfied the "latest available control techniques and operating practices" required pursuant to OAC rule 3745-23-06(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 13-03792.

II. Operational Restrictions

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

III. Monitoring and/or Record Keeping Requirements

1. For each day during which the permittee burns a fuel other than natural gas, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.

V. Testing Requirements

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

1.a Emission Limitations:
0.020 lb of particulate emissions per mmBtu actual heat input and 1.05 tons/yr of particulate emissions

Applicable Compliance Method:
Compliance with the lb/mmBtu emission limitation may be based upon multiplying the maximum hourly gas burning capacity of the emissions unit (0.0117 mmcu.ft/hr) by the AP-42 emission factor* for particulates (1.9 lbs particulates/mmcu.ft).

*AP-42, Fifth Edition, Supplement D (7-98), Table 1.4-2

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

The annual emission limitation was established by multiplying the lb/mmBtu emission limitation by the maximum hourly heat input capacity of the emissions unit (12.0 mmBtu/hr) by 8,760 hours per year and dividing by 2,000 pounds per ton. Therefore, if the emissions unit is in compliance with the hourly emission limitation, it is also in compliance with the annual limitation.

1.b Emission Limitations:
1.18 lbs/hr and 5.17 tons/yr of nitrogen oxides emissions

Applicable Compliance Methods:
Compliance with the hourly emission limitation may be based upon multiplying the maximum hourly gas burning capacity of the emissions unit (0.0117 mmcu.ft/hr) by the AP-42 emission factor* for NOx (100 lbs NOx/million cubic feet).

*AP-42, Fifth Edition, Supplement D (7-98), Table 1.4-1

If required, the permittee shall demonstrate compliance with the hourly emission limitation through emission testing performed in accordance with Methods 1-4 and 7 of 40 CFR Part 60, Appendix A.

The annual emission limitation was established by multiplying the hourly emission limitation by 8,760 hours per year and dividing by 2,000 pounds per ton. Therefore, if the emissions unit is in compliance with the hourly emission limitation, it is also in compliance with the annual limitation.

V. Testing Requirements (continued)

1.c Emission Limitations:
1.07 lbs/hr and 4.67 tons/yr of carbon monoxide emissions

Applicable Compliance Methods:
Compliance with the hourly emission limitation may be based upon multiplying the maximum hourly gas burning capacity of the emissions unit (0.0117 mmcu.ft/hr) by the AP-42 emission factor* for CO (84 lbs CO/million cubic feet).

*AP-42, Fifth Edition, Supplement D (7-98), Table 1.4-1

If required, the permittee shall demonstrate compliance with the hourly emission limitation through emission testing performed in accordance with Methods 1-4 and 10 of 40 CFR Part 60, Appendix A.

The annual emission limitation was established by multiplying the hourly emission limitation by 8,760 hours per year and dividing by 2,000 pounds per ton. Therefore, if the emissions unit is in compliance with the hourly emission limitation, it is also in compliance with the annual limitation.

1.d Emission Limitations:
0.064 lb/hr and 0.28 ton/yr of VOC emissions

Applicable Compliance Methods:
Compliance with the hourly emission limitation may be based upon multiplying the maximum hourly gas burning capacity of the emissions unit (0.0117 mmcu.ft/hr) by the AP-42 emission factor* for VOC (5.5 lbs VOC/million cubic feet).

*AP-42, Fifth Edition, Supplement D (7-98), Table 1.4-2

If required, the permittee shall demonstrate compliance with the hourly emission limitation through emission testing performed in accordance with Methods 1-4 and 25 of 40 CFR Part 60, Appendix A.

The annual emission limitation was established by multiplying the hourly emission limitation by 8,760 hours per year and dividing by 2,000 pounds per ton. Therefore, if the emissions unit is in compliance with the hourly emission limitation, it is also in compliance with the annual limitation.

1.e Emission Limitation:
Visible particulate emissions from any stack shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.

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

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Oven 5 (P051)

Activity Description: Electode Division - Extruding Oven F

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
12.0 mmBtu/hr indirect natural gas-fired extruding oven "F"	OAC 3745-17-07(A)	Visible particulate emissions from any stack shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.
	OAC 3745-17-10(B)(1)	0.020 lb of particulate emissions per million Btu actual heat input
	OAC 3745-31-05(A)(3) (PTI# 13-03792)	1.18 lbs/hr and 5.17 tons/yr of nitrogen oxides emissions; 1.07 lbs/hr and 4.67 tons/yr of carbon monoxide emissions; 0.064 lb/hr and 0.28 ton/yr of VOC emissions; and 1.05 tons/yr of particulate emissions. The requirements of this rule include compliance with the requirements of OAC rules 3745-17-07(A), 3745-17-10(B)(1), 3745-21-08(B), and 3745-23-06(B).
	OAC 3745-21-08(B)	See A.I.2.a below.
	OAC 3745-23-06(B)	See A.I.2.b below.

2. Additional Terms and Conditions

2.a The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 13-03792.

On November 5, 2002, OAC rule 3745-21-08 was revised to delete paragraph (B); therefore, paragraph (B) is no longer part of the State regulations. However, that rule revision has not yet been submitted to the 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 3745-21-08, the requirement to satisfy the "best available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio.

2. Additional Terms and Conditions (continued)

2.b The permittee has satisfied the "latest available control techniques and operating practices" required pursuant to OAC rule 3745-23-06(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 13-03792.

II. Operational Restrictions

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

III. Monitoring and/or Record Keeping Requirements

1. For each day during which the permittee burns a fuel other than natural gas, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.

V. Testing Requirements

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

1.a Emission Limitations:
0.020 lb of particulate emissions per mmBtu actual heat input and 1.05 tons/yr of particulate emissions

Applicable Compliance Method:
Compliance with the lb/mmBtu emission limitation may be based upon multiplying the maximum hourly gas burning capacity of the emissions unit (0.0117 mmcu.ft/hr) by the AP-42 emission factor* for particulates (1.9 lbs particulates/mmcu.ft).

*AP-42, Fifth Edition, Supplement D (7-98), Table 1.4-2

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

The annual emission limitation was established by multiplying the lb/mmBtu emission limitation by the maximum hourly heat input capacity of the emissions unit (12.0 mmBtu/hr) by 8,760 hours per year and dividing by 2,000 pounds per ton. Therefore, if the emissions unit is in compliance with the hourly emission limitation, it is also in compliance with the annual limitation.

1.b Emission Limitations:
1.18 lbs/hr and 5.17 tons/yr of nitrogen oxides emissions

Applicable Compliance Methods:
Compliance with the hourly emission limitation may be based upon multiplying the maximum hourly gas burning capacity of the emissions unit (0.0117 mmcu.ft/hr) by the AP-42 emission factor* for NOx (100 lbs NOx/million cubic feet).

*AP-42, Fifth Edition, Supplement D (7-98), Table 1.4-1

If required, the permittee shall demonstrate compliance with the hourly emission limitation through emission testing performed in accordance with Methods 1-4 and 7 of 40 CFR Part 60, Appendix A.

The annual emission limitation was established by multiplying the hourly emission limitation by 8,760 hours per year and dividing by 2,000 pounds per ton. Therefore, if the emissions unit is in compliance with the hourly emission limitation, it is also in compliance with the annual limitation.

V. Testing Requirements (continued)

1.c Emission Limitations:
1.07 lbs/hr and 4.67 tons/yr of carbon monoxide emissions

Applicable Compliance Methods:
Compliance with the hourly emission limitation may be based upon multiplying the maximum hourly gas burning capacity of the emissions unit (0.0117 mmcu.ft/hr) by the AP-42 emission factor* for CO (84 lbs CO/million cubic feet).

*AP-42, Fifth Edition, Supplement D (7-98), Table 1.4-1

If required, the permittee shall demonstrate compliance with the hourly emission limitation through emission testing performed in accordance with Methods 1-4 and 10 of 40 CFR Part 60, Appendix A.

The annual emission limitation was established by multiplying the hourly emission limitation by 8,760 hours per year and dividing by 2,000 pounds per ton. Therefore, if the emissions unit is in compliance with the hourly emission limitation, it is also in compliance with the annual limitation.

1.d Emission Limitations:
0.064 lb/hr and 0.28 ton/yr of VOC emissions

Applicable Compliance Methods:
Compliance with the hourly emission limitation may be based upon multiplying the maximum hourly gas burning capacity of the emissions unit (0.0117 mmcu.ft/hr) by the AP-42 emission factor* for VOC (5.5 lbs VOC/million cubic feet).

*AP-42, Fifth Edition, Supplement D (7-98), Table 1.4-2

If required, the permittee shall demonstrate compliance with the hourly emission limitation through emission testing performed in accordance with Methods 1-4 and 25 of 40 CFR Part 60, Appendix A.

The annual emission limitation was established by multiplying the hourly emission limitation by 8,760 hours per year and dividing by 2,000 pounds per ton. Therefore, if the emissions unit is in compliance with the hourly emission limitation, it is also in compliance with the annual limitation.

1.e Emission Limitation:
Visible particulate emissions from any stack shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.

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

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Oven 7 (P052)

Activity Description: Electode Division - Extruding Oven H

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
12.0 mmBtu/hr indirect natural gas-fired extruding oven "H"	OAC 3745-17-07(A)	Visible particulate emissions from any stack shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.
	OAC 3745-17-10(B)(1)	0.020 lb of particulate emissions per million Btu actual heat input
	OAC 3745-31-05(A)(3) (PTI# 13-03792)	1.18 lbs/hr and 5.17 tons/yr of nitrogen oxides emissions; 1.07 lbs/hr and 4.67 tons/yr of carbon monoxide emissions; 0.064 lb/hr and 0.28 ton/yr of VOC emissions; and 1.05 tons/yr of particulate emissions. The requirements of this rule include compliance with the requirements of OAC rules 3745-17-07(A), 3745-17-10(B)(1), 3745-21-08(B), and 3745-23-06(B).
	OAC 3745-21-08(B)	See A.I.2.a below.
	OAC 3745-23-06(B)	See A.I.2.b below.

2. Additional Terms and Conditions

2.a The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 13-03792.

On November 5, 2002, OAC rule 3745-21-08 was revised to delete paragraph (B); therefore, paragraph (B) is no longer part of the State regulations. However, that rule revision has not yet been submitted to the 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 3745-21-08, the requirement to satisfy the "best available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio.

2. Additional Terms and Conditions (continued)

2.b The permittee has satisfied the "latest available control techniques and operating practices" required pursuant to OAC rule 3745-23-06(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 13-03792.

II. Operational Restrictions

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

III. Monitoring and/or Record Keeping Requirements

1. For each day during which the permittee burns a fuel other than natural gas, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.

V. Testing Requirements

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

1.a Emission Limitations:
0.020 lb of particulate emissions per mmBtu actual heat input and 1.05 tons/yr of particulate emissions

Applicable Compliance Method:
Compliance with the lb/mmBtu emission limitation may be based upon multiplying the maximum hourly gas burning capacity of the emissions unit (0.0117 mmcu.ft/hr) by the AP-42 emission factor* for particulates (1.9 lbs particulates/mmcu.ft).

*AP-42, Fifth Edition, Supplement D (7-98), Table 1.4-2

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

The annual emission limitation was established by multiplying the lb/mmBtu emission limitation by the maximum hourly heat input capacity of the emissions unit (12.0 mmBtu/hr) by 8,760 hours per year and dividing by 2,000 pounds per ton. Therefore, if the emissions unit is in compliance with the hourly emission limitation, it is also in compliance with the annual limitation.

1.b Emission Limitations:
1.18 lbs/hr and 5.17 tons/yr of nitrogen oxides emissions

Applicable Compliance Methods:
Compliance with the hourly emission limitation may be based upon multiplying the maximum hourly gas burning capacity of the emissions unit (0.0117 mmcu.ft/hr) by the AP-42 emission factor* for NOx (100 lbs NOx/million cubic feet).

*AP-42, Fifth Edition, Supplement D (7-98), Table 1.4-1

If required, the permittee shall demonstrate compliance with the hourly emission limitation through emission testing performed in accordance with Methods 1-4 and 7 of 40 CFR Part 60, Appendix A.

The annual emission limitation was established by multiplying the hourly emission limitation by 8,760 hours per year and dividing by 2,000 pounds per ton. Therefore, if the emissions unit is in compliance with the hourly emission limitation, it is also in compliance with the annual limitation.

V. Testing Requirements (continued)

1.c Emission Limitations:
1.07 lbs/hr and 4.67 tons/yr of carbon monoxide emissions

Applicable Compliance Methods:
Compliance with the hourly emission limitation may be based upon multiplying the maximum hourly gas burning capacity of the emissions unit (0.0117 mmcu.ft/hr) by the AP-42 emission factor* for CO (84 lbs CO/million cubic feet).

*AP-42, Fifth Edition, Supplement D (7-98), Table 1.4-1

If required, the permittee shall demonstrate compliance with the hourly emission limitation through emission testing performed in accordance with Methods 1-4 and 10 of 40 CFR Part 60, Appendix A.

The annual emission limitation was established by multiplying the hourly emission limitation by 8,760 hours per year and dividing by 2,000 pounds per ton. Therefore, if the emissions unit is in compliance with the hourly emission limitation, it is also in compliance with the annual limitation.

1.d Emission Limitations:
0.064 lb/hr and 0.28 ton/yr of VOC emissions

Applicable Compliance Methods:
Compliance with the hourly emission limitation may be based upon multiplying the maximum hourly gas burning capacity of the emissions unit (0.0117 mmcu.ft/hr) by the AP-42 emission factor* for VOC (5.5 lbs VOC/million cubic feet).

*AP-42, Fifth Edition, Supplement D (7-98), Table 1.4-2

If required, the permittee shall demonstrate compliance with the hourly emission limitation through emission testing performed in accordance with Methods 1-4 and 25 of 40 CFR Part 60, Appendix A.

The annual emission limitation was established by multiplying the hourly emission limitation by 8,760 hours per year and dividing by 2,000 pounds per ton. Therefore, if the emissions unit is in compliance with the hourly emission limitation, it is also in compliance with the annual limitation.

1.e Emission Limitation:
Visible particulate emissions from any stack shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.

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

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Oven 10 (P053)

Activity Description: Electode Division - Extruding Oven L

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
12.0 mmBtu/hr indirect natural gas-fired extruding oven "L"	OAC 3745-17-07(A)	Visible particulate emissions from any stack shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.
	OAC 3745-17-10(B)(1)	0.020 lb of particulate emissions per million Btu actual heat input
	OAC 3745-31-05(A)(3) (PTI# 13-03792)	1.18 lbs/hr and 5.17 tons/yr of nitrogen oxides emissions; 1.07 lbs/hr and 4.67 tons/yr of carbon monoxide emissions; 0.064 lb/hr and 0.28 ton/yr of VOC emissions; and 1.05 tons/yr of particulate emissions. The requirements of this rule include compliance with the requirements of OAC rules 3745-17-07(A), 3745-17-10(B)(1), 3745-21-08(B), and 3745-23-06(B).
	OAC 3745-21-08(B)	See A.I.2.a below.
	OAC 3745-23-06(B)	See A.I.2.b below.

2. Additional Terms and Conditions

2.a The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 13-03792.

On November 5, 2002, OAC rule 3745-21-08 was revised to delete paragraph (B); therefore, paragraph (B) is no longer part of the State regulations. However, that rule revision has not yet been submitted to the 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 3745-21-08, the requirement to satisfy the "best available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio.

2. Additional Terms and Conditions (continued)

2.b The permittee has satisfied the "latest available control techniques and operating practices" required pursuant to OAC rule 3745-23-06(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 13-03792.

II. Operational Restrictions

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

III. Monitoring and/or Record Keeping Requirements

1. For each day during which the permittee burns a fuel other than natural gas, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.

V. Testing Requirements

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

1.a Emission Limitations:
0.020 lb of particulate emissions per mmBtu actual heat input and 1.05 tons/yr of particulate emissions

Applicable Compliance Method:
Compliance with the lb/mmBtu emission limitation may be based upon multiplying the maximum hourly gas burning capacity of the emissions unit (0.0117 mmcu.ft/hr) by the AP-42 emission factor* for particulates (1.9 lbs particulates/mmcu.ft).

*AP-42, Fifth Edition, Supplement D (7-98), Table 1.4-2

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

The annual emission limitation was established by multiplying the lb/mmBtu emission limitation by the maximum hourly heat input capacity of the emissions unit (12.0 mmBtu/hr) by 8,760 hours per year and dividing by 2,000 pounds per ton. Therefore, if the emissions unit is in compliance with the hourly emission limitation, it is also in compliance with the annual limitation.

1.b Emission Limitations:
1.18 lbs/hr and 5.17 tons/yr of nitrogen oxides emissions

Applicable Compliance Methods:
Compliance with the hourly emission limitation may be based upon multiplying the maximum hourly gas burning capacity of the emissions unit (0.0117 mmcu.ft/hr) by the AP-42 emission factor* for NOx (100 lbs NOx/million cubic feet).

*AP-42, Fifth Edition, Supplement D (7-98), Table 1.4-1

If required, the permittee shall demonstrate compliance with the hourly emission limitation through emission testing performed in accordance with Methods 1-4 and 7 of 40 CFR Part 60, Appendix A.

The annual emission limitation was established by multiplying the hourly emission limitation by 8,760 hours per year and dividing by 2,000 pounds per ton. Therefore, if the emissions unit is in compliance with the hourly emission limitation, it is also in compliance with the annual limitation.

V. Testing Requirements (continued)

1.c Emission Limitations:
1.07 lbs/hr and 4.67 tons/yr of carbon monoxide emissions

Applicable Compliance Methods:
Compliance with the hourly emission limitation may be based upon multiplying the maximum hourly gas burning capacity of the emissions unit (0.0117 mmcu.ft/hr) by the AP-42 emission factor* for CO (84 lbs CO/million cubic feet).

*AP-42, Fifth Edition, Supplement D (7-98), Table 1.4-1

If required, the permittee shall demonstrate compliance with the hourly emission limitation through emission testing performed in accordance with Methods 1-4 and 10 of 40 CFR Part 60, Appendix A.

The annual emission limitation was established by multiplying the hourly emission limitation by 8,760 hours per year and dividing by 2,000 pounds per ton. Therefore, if the emissions unit is in compliance with the hourly emission limitation, it is also in compliance with the annual limitation.

1.d Emission Limitations:
0.064 lb/hr and 0.28 ton/yr of VOC emissions

Applicable Compliance Methods:
Compliance with the hourly emission limitation may be based upon multiplying the maximum hourly gas burning capacity of the emissions unit (0.0117 mmcu.ft/hr) by the AP-42 emission factor* for VOC (5.5 lbs VOC/million cubic feet).

*AP-42, Fifth Edition, Supplement D (7-98), Table 1.4-2

If required, the permittee shall demonstrate compliance with the hourly emission limitation through emission testing performed in accordance with Methods 1-4 and 25 of 40 CFR Part 60, Appendix A.

The annual emission limitation was established by multiplying the hourly emission limitation by 8,760 hours per year and dividing by 2,000 pounds per ton. Therefore, if the emissions unit is in compliance with the hourly emission limitation, it is also in compliance with the annual limitation.

1.e Emission Limitation:
Visible particulate emissions from any stack shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.

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

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Oven 11 (P054)

Activity Description: Electode Division - Extruding Oven M

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
12.0 mmBtu/hr indirect natural gas-fired extruding oven "M"	OAC 3745-17-07(A)	Visible particulate emissions from any stack shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.
	OAC 3745-17-10(B)(1)	0.020 lb of particulate emissions per million Btu actual heat input
	OAC 3745-31-05(A)(3) (PTI# 13-03792)	1.18 lbs/hr and 5.17 tons/yr of nitrogen oxides emissions; 1.07 lbs/hr and 4.67 tons/yr of carbon monoxide emissions; 0.064 lb/hr and 0.28 ton/yr of VOC emissions; and 1.05 tons/yr of particulate emissions. The requirements of this rule include compliance with the requirements of OAC rules 3745-17-07(A), 3745-17-10(B)(1), 3745-21-08(B), and 3745-23-06(B).
	OAC 3745-21-08(B)	See A.I.2.a below.
	OAC 3745-23-06(B)	See A.I.2.b below.

2. Additional Terms and Conditions

2.a The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 13-03792.

On November 5, 2002, OAC rule 3745-21-08 was revised to delete paragraph (B); therefore, paragraph (B) is no longer part of the State regulations. However, that rule revision has not yet been submitted to the 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 3745-21-08, the requirement to satisfy the "best available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio.

2. Additional Terms and Conditions (continued)

2.b The permittee has satisfied the "latest available control techniques and operating practices" required pursuant to OAC rule 3745-23-06(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 13-03792.

II. Operational Restrictions

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

III. Monitoring and/or Record Keeping Requirements

1. For each day during which the permittee burns a fuel other than natural gas, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.

V. Testing Requirements

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

1.a Emission Limitations:
0.020 lb of particulate emissions per mmBtu actual heat input and 1.05 tons/yr of particulate emissions

Applicable Compliance Method:
Compliance with the lb/mmBtu emission limitation may be based upon multiplying the maximum hourly gas burning capacity of the emissions unit (0.0117 mmcu.ft/hr) by the AP-42 emission factor* for particulates (1.9 lbs particulates/mmcu.ft).

*AP-42, Fifth Edition, Supplement D (7-98), Table 1.4-2

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

The annual emission limitation was established by multiplying the lb/mmBtu emission limitation by the maximum hourly heat input capacity of the emissions unit (12.0 mmBtu/hr) by 8,760 hours per year and dividing by 2,000 pounds per ton. Therefore, if the emissions unit is in compliance with the hourly emission limitation, it is also in compliance with the annual limitation.

1.b Emission Limitations:
1.18 lbs/hr and 5.17 tons/yr of nitrogen oxides emissions

Applicable Compliance Methods:
Compliance with the hourly emission limitation may be based upon multiplying the maximum hourly gas burning capacity of the emissions unit (0.0117 mmcu.ft/hr) by the AP-42 emission factor* for NOx (100 lbs NOx/million cubic feet).

*AP-42, Fifth Edition, Supplement D (7-98), Table 1.4-1

If required, the permittee shall demonstrate compliance with the hourly emission limitation through emission testing performed in accordance with Methods 1-4 and 7 of 40 CFR Part 60, Appendix A.

The annual emission limitation was established by multiplying the hourly emission limitation by 8,760 hours per year and dividing by 2,000 pounds per ton. Therefore, if the emissions unit is in compliance with the hourly emission limitation, it is also in compliance with the annual limitation.

V. Testing Requirements (continued)

1.c Emission Limitations:
1.07 lbs/hr and 4.67 tons/yr of carbon monoxide emissions

Applicable Compliance Methods:
Compliance with the hourly emission limitation may be based upon multiplying the maximum hourly gas burning capacity of the emissions unit (0.0117 mmcu.ft/hr) by the AP-42 emission factor* for CO (84 lbs CO/million cubic feet).

*AP-42, Fifth Edition, Supplement D (7-98), Table 1.4-1

If required, the permittee shall demonstrate compliance with the hourly emission limitation through emission testing performed in accordance with Methods 1-4 and 10 of 40 CFR Part 60, Appendix A.

The annual emission limitation was established by multiplying the hourly emission limitation by 8,760 hours per year and dividing by 2,000 pounds per ton. Therefore, if the emissions unit is in compliance with the hourly emission limitation, it is also in compliance with the annual limitation.

1.d Emission Limitations:
0.064 lb/hr and 0.28 ton/yr of VOC emissions

Applicable Compliance Methods:
Compliance with the hourly emission limitation may be based upon multiplying the maximum hourly gas burning capacity of the emissions unit (0.0117 mmcu.ft/hr) by the AP-42 emission factor* for VOC (5.5 lbs VOC/million cubic feet).

*AP-42, Fifth Edition, Supplement D (7-98), Table 1.4-2

If required, the permittee shall demonstrate compliance with the hourly emission limitation through emission testing performed in accordance with Methods 1-4 and 25 of 40 CFR Part 60, Appendix A.

The annual emission limitation was established by multiplying the hourly emission limitation by 8,760 hours per year and dividing by 2,000 pounds per ton. Therefore, if the emissions unit is in compliance with the hourly emission limitation, it is also in compliance with the annual limitation.

1.e Emission Limitation:
Visible particulate emissions from any stack shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.

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

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Kiln 05 (P902)

Activity Description: Electrode Division - A-Flux Kiln

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
rotary kiln A for production of granular flux, equipped with two baghouses	OAC 3745-17-07(A)	20% opacity as a six-minute average, except as provided by rule
	OAC 3745-17-12(N)(4)	2.4 lbs/hr of particulate emissions

2. Additional Terms and Conditions

2.a All particulate emissions from this emissions unit shall be vented to the baghouses.

II. Operational Restrictions

1. The permittee shall operate the baghouses while the emissions unit is in operation.

2. The pressure drop across the baghouse #1 shall be maintained within the range of 0.5 to 4.5 inches of water while the emissions unit is in operation.

The operation of the control equipment outside the range specified above may or may not indicate a mass emission and/or visible emission violation. If required by the Ohio EPA, compliance with the mass emission limitation and visible emission limitation shall be determined by performing concurrent mass emission tests and visible emissions readings, using US EPA - approved methods and procedures. The results of any required emission tests and visible emission readings shall be used in determining whether or not the operation of the control equipment outside the range specified above is indicative of a possible violation of the mass emission limitation and/or visible emission limitation.

3. The pressure drop across the baghouse #2 shall be maintained within the range of 0.5 to 4.5 inches of water while the emissions unit is in operation.

The operation of the control equipment outside the range specified above may or may not indicate a mass emission and/or visible emission violation. If required by the Ohio EPA, compliance with the mass emission limitation and visible emission limitation shall be determined by performing concurrent mass emission tests and visible emissions readings, using US EPA - approved methods and procedures. The results of any required emission tests and visible emission readings shall be used in determining whether or not the operation of the control equipment outside the range specified above is indicative of a possible violation of the mass emission limitation and/or visible emission limitation.

III. Monitoring and/or Record Keeping Requirements

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

2. The permittee shall operate and maintain equipment to monitor the pressure drop across baghouse #2 while the emissions unit is in operation. The monitoring equipment shall be calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on daily basis.

IV. Reporting Requirements

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

The quarterly deviation reports shall be submitted in accordance with General Term and Condition A.1.c.ii of this permit.

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

The quarterly deviation reports shall be submitted in accordance with General Term and Condition A.1.c.ii of this permit.

V. Testing Requirements

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

1.a Emission Limitation:
20% 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 and the procedures specified in OAC rule 3745-17-03(B)(1).

1.b Emission Limitation:
2.4 lbs/hr of particulate emissions

Applicable Compliance Method:
Compliance shall be based upon the results of the emission testing specified in Section A.V.1.c.

V. Testing Requirements (continued)

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

The emission testing shall be conducted within 12 months after issuance of the permit and within 12 months prior to permit expiration.

The emission testing shall be conducted to demonstrate compliance with the particulate emission limitation.

The following test methods and procedures shall be employed to demonstrate compliance with the particulate emission limitation: Methods 1 through 5 of 40 CFR Part 60, Appendix A and the procedures specified in OAC rule 3745-17-03(B)(10). Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

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

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

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

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

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Kiln 06 (P903)

Activity Description: Electrode Division - B-Flux Kiln

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
kiln B for production of granular flux, equipped with a wet rotoclone and baghouse	OAC 3745-17-07(A)	20% opacity as a six-minute average, except as provided by rule
	OAC 3745-17-12(N)(4)	2.4 lbs/hr of particulate emissions

2. Additional Terms and Conditions

2.a All particulate emissions from this emissions unit shall be vented to the wet rotoclone and baghouse.

II. Operational Restrictions

1. The permittee shall operate the wet rotoclone and baghouse while the emissions unit is in operation.

2. The pressure drop across the baghouse shall be maintained within the range of 1.5- 6 inches of water while the emissions unit is in operation.

The operation of the control equipment outside the range specified above may or may not indicate a mass emission and/or visible emission violation. If required by the Ohio EPA, compliance with the mass emission limitation and visible emission limitation shall be determined by performing concurrent mass emission tests and visible emissions readings, using US EPA - approved methods and procedures. The results of any required emission tests and visible emission readings shall be used in determining whether or not the operation of the control equipment outside the range specified above is indicative of a possible violation of the mass emission limitation and/or visible emission limitation.

3. The wet rotoclone water supply pressure shall be continuously maintained at a value of not less than the minimum water supply pressure, in pounds per square inch (gauge), established during the most recent emission test that demonstrated that the emissions unit was in compliance.

The operation of the control equipment outside the range specified above may or may not indicate a mass emission and/or visible emission violation. If required by the Ohio EPA, compliance with the mass emission limitation and visible emission limitation shall be determined by performing concurrent mass emission tests and visible emissions readings, using US EPA - approved methods and procedures. The results of any required emission tests and visible emission readings shall be used in determining whether or not the operation of the control equipment outside the range specified above is indicative of a possible violation of the mass emission limitation and/or visible emission limitation.

II. Operational Restrictions (continued)

4. The wet rotoclone water flow rate shall be continuously maintained at a value of not less than the minimum water flow rate, in gallons per minute, established during the most recent emission test that demonstrated that the emissions unit was in compliance.

The operation of the control equipment outside the range specified above may or may not indicate a mass emission and/or visible emission violation. If required by the Ohio EPA, compliance with the mass emission limitation and visible emission limitation shall be determined by performing concurrent mass emission tests and visible emissions readings, using US EPA - approved methods and procedures. The results of any required emission tests and visible emission readings shall be used in determining whether or not the operation of the control equipment outside the range specified above is indicative of a possible violation of the mass emission limitation and/or visible emission limitation.

III. Monitoring and/or Record Keeping Requirements

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

2. The permittee shall properly operate and maintain equipment to monitor and record the water supply pressure and the water flow rate while the emissions unit is in operation. The monitoring devices and recorder(s) shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals.

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

a. The water supply pressure, in psig, on a daily basis.

b. The water flow rate, in gpm, on a daily basis.

c. A log or record of the downtime for the capture (collection) system, control device, and monitoring equipment when the associated emissions unit was in operation.

IV. Reporting Requirements

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

The quarterly deviation reports shall be submitted in accordance with General Term and Condition A.1.c.ii of this permit.

2. The permittee shall notify the Director (the appropriate District Office or local air agency) in writing of any record showing that the wet rotoclone system was not in service when the emissions unit was in operation. The notification shall include a copy of such record and shall be sent to the Director (the appropriate District Office or local air agency) within 30 days after the event occurs.

3. The permittee shall submit quarterly summaries of the following records:

a. All periods of time during which the wet rotoclone water supply pressure and water flow rate were not maintained at or above the required levels.

b. A log or record of the downtime for the capture (collection) system, control device, and monitoring equipment when the associated emissions unit was in operation.

These quarterly reports shall be submitted by April 30, July 31, October 31, and January 31, and shall cover the records for the previous calendar quarters.

V. Testing Requirements

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

1.a Emission Limitation:
20% 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 and the procedures specified in OAC rule 3745-17-03(B)(1).

1.b Emission Limitation:
2.4 lbs/hr of particulate emissions

Applicable Compliance Method:
Compliance shall be based upon the results of the emission testing specified in Section A.V.1.c.

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

The emission testing shall be conducted within 12 months after issuance of the permit and within 12 months prior to permit expiration.

The emission testing shall be conducted to demonstrate compliance with the particulate emission limitation.

The following test methods and procedures shall be employed to demonstrate compliance with the particulate emission limitation: Methods 1 through 5 of 40 CFR Part 60, Appendix A and the procedures specified in OAC rule 3745-17-03(B)(10). Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

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

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

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

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

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Kiln 07 (P904)

Activity Description: Electrode Division - C-Flux Kiln

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
kiln C for production of granular flux, equipped with a baghouse	OAC 3745-17-07(A)	20% opacity as a six-minute average, except as provided by rule
	OAC 3745-17-12(N)(4)	2.4 lbs/hr of particulate emissions

2. Additional Terms and Conditions

2.a All particulate emissions from this emissions unit shall be vented to the baghouse.

II. Operational Restrictions

1. The permittee shall operate the baghouse while the emissions unit is in operation.

2. The pressure drop across the baghouse shall be maintained within the range of 1.5 to 6 inches of water while the emissions unit is in operation.

The operation of the control equipment outside the range specified above may or may not indicate a mass emission and/or visible emission violation. If required by the Ohio EPA, compliance with the mass emission limitation and visible emission limitation shall be determined by performing concurrent mass emission tests and visible emissions readings, using US EPA - approved methods and procedures. The results of any required emission tests and visible emission readings shall be used in determining whether or not the operation of the control equipment outside the range specified above is indicative of a possible violation of the mass emission limitation and/or visible emission limitation.

III. Monitoring and/or Record Keeping Requirements

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

IV. Reporting Requirements

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

The quarterly deviation reports shall be submitted in accordance with General Term and Condition A.1.c.ii of this permit.

V. Testing Requirements

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

1.a Emission Limitation:
20% 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 and the procedures specified in OAC rule 3745-17-03(B)(1).

1.b Emission Limitation:
2.4 lbs/hr of particulate emissions

Applicable Compliance Method:
Compliance shall be based upon the results of the emission testing specified in Section A.V.1.c.

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

The emission testing shall be conducted within 12 months after issuance of the permit and within 12 months prior to permit expiration.

The emission testing shall be conducted to demonstrate compliance with the particulate emission limitation.

The following test methods and procedures shall be employed to demonstrate compliance with the particulate emission limitation: Methods 1 through 5 of 40 CFR Part 60, Appendix A and the procedures specified in OAC rule 3745-17-03(B)(10). Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

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

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

V. Testing Requirements (continued)

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

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

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

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