



State of Ohio Environmental Protection Agency

Street Address:

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

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

05/13/08

CERTIFIED MAIL

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

03-03-00-0002
Mansfield Plumbing Products
Dave Shook
150 East First Street
Perrysville, OH 44864

Dear Dave Shook:

You are hereby notified that the Ohio Environmental Protection Agency has prepared the enclosed draft of the Title V permit for the facility referenced above. The purpose of this draft is to solicit public comments. A public notice concerning the draft will appear in the Ohio EPA Weekly Review and the major newspaper in the county where the facility is located. Comments and/or a request for a public hearing from the public and any affected parties will be accepted by Northwest District Office within 30 days of the date of publication in the newspaper. You will be notified in writing if a public hearing is scheduled. **In order to facilitate our review of all the comments or concerns you may have with the enclosed draft permit, please provide a hand marked-up copy of the draft permit showing the changes you think are necessary, along with any additional summary comments, by the end of the draft public comment period. The hard marked-up copy and any additional summary comments should be submitted to the Ohio EPA District Office or local air agency identified below and to the following address:**

**Andrew Hall
Permit Review/Development Section
Ohio EPA, Division of Air Pollution Control
122 South Front Street
Columbus, Ohio 43215**

A decision on processing the Title V permit will be made after consideration of written public comments and oral testimony (if a public hearing is conducted). After the comment period, you will be provided with a Preliminary Proposed Title V permit and an opportunity to comment prior to the Proposed Title V permit submittal to USEPA.

If you have any questions concerning this draft Title V permit, please contact Northwest District Office.

Sincerely,


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

cc: USEPA (electronically submitted)
File, DAPC PIER
Northwest District Office



State of Ohio Environmental Protection Agency

DRAFT TITLE V PERMIT

Issue Date: 05/13/08

Effective Date: To be entered upon final issuance

Expiration Date: To be entered upon final issuance

This document constitutes issuance of a Title V permit for Facility ID: 03-03-00-0002 to:
Mansfield Plumbing Products
150 East First Street
Perryville, OH 44864

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

Table with 3 columns: Emissions Unit ID (Company ID), Emissions Unit Activity Description, and Emissions Unit Activity Description. Rows include P002 (Clay Transfer System), P003 (Glaze Ball Mills), P004 (Glaze Spray Booths), P010 (Talc Duster NBL), P011 (Talc Duster Tanks), P016 (Kiln #7), P018 (Kiln #9), P028 (Keith Refire Kiln), P033 (Kiln #2), P041 (Plaster Delivery System), P042 (Glaze Spray Booth #1), P043 (Kiln #10), P045 (Glaze Spray Booth #2), P046 (Tank Spray Machine), P047 (Kiln #4), and Z024 (Beckley Shuttle Kilns).

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.

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

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

Ohio Environmental Protection Agency

Chris Korleski
Director

PART I - GENERAL TERMS AND CONDITIONS

A. State and Federally Enforceable Section

1. Monitoring and Related Record Keeping and Reporting Requirements

a. Except as may otherwise be provided in the terms and conditions for a specific emissions unit, i.e., in Section A.III of Part III of this Title V permit, the permittee shall maintain records that include the following, where applicable, for any required monitoring under this permit:

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Unless otherwise specified by rule, written reports that identify deviations of the following federally enforceable requirements contained in this permit; General Terms and Conditions: A.2, A.3, A.4, A.6.e, A.7, A.12, A.14, A.18, A.19, A.20, and A.22 of Part I of this Title V permit, as well as any deviations from the requirements in Section A.V or A.VI of Part III of this Title V permit, and any monitoring, record keeping, and reporting requirements, which are not reported in accordance with General Term and Condition A.1.c.ii above shall be submitted (i.e., postmarked) to the appropriate Ohio EPA District Office

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

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

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

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

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

- iv. Each written report shall be signed by a responsible official certifying that, "based on information and belief formed after reasonable inquiry, the statements and information in the report (including any written malfunction reports required by OAC rule 3745-15-06 that are referenced in the deviation reports) are true, accurate, and complete."

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

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

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

2. Scheduled Maintenance

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

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

3. Risk Management Plans

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

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

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

4. Title IV Provisions

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

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

5. Severability Clause

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

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

6. General Requirements

- a. The permittee must comply with all terms and conditions of this permit. Any noncompliance with the federally enforceable terms and conditions of this permit constitutes a violation of the Act, and is grounds for enforcement action or for permit revocation, revocation and reissuance, or modification, or for denial of a permit renewal application.
- b. It shall not be a defense for the permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the federally enforceable terms and conditions of this permit.
- c. This permit may be modified, reopened, revoked, or revoked and reissued, for cause, in accordance with A.10 below. The filing of a request by the permittee for a permit modification, revocation and reissuance, or revocation, or of a notification of planned changes or anticipated noncompliance does not stay any term and condition of this permit.
- d. This permit does not convey any property rights of any sort, or any exclusive privilege.
- e. The permittee shall furnish to the Director of the Ohio EPA, or an authorized representative of the Director, upon receipt of a written request and within a reasonable time, any information that may be requested to determine whether cause exists for modifying, reopening or revoking this permit or to determine compliance with this permit. Upon request, the permittee shall also furnish to the Director or an authorized representative of the Director, copies of records required to be kept by this permit. For information claimed to be confidential in the submittal to the Director, if the Administrator of the U.S. EPA requests such information, the permittee may furnish such records directly to the Administrator along with a claim of confidentiality.
- f. Except as otherwise indicated below, this Title V permit, or permit modification, is effective for five years from the original effective date specified in the permit. In the event that this facility becomes eligible for non-title V permits, this permit shall cease to be enforceable upon final issuance of all applicable OAC Chapter 3745-35 operating permits and/or registrations for all subject emissions units located at the facility and:
 - i. the permittee submits an approved facility-wide potential to emit analysis supporting a claim that the facility no longer meets the definition of a “major source” as defined in OAC rule 3745-77-01(W) based on the permanent shutdown and removal of one or more emissions units identified in this permit; or
 - ii. the permittee no longer meets the definition of a “major source” as defined in OAC rule 3745-77-01(W) based on obtaining restrictions on the facility-wide potential(s) to emit that are federally enforceable or legally and practically enforceable ; or
 - iii. a combination of i. and ii. above.

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

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

7. Fees

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

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

8. Marketable Permit Programs

No revision of this permit is required under any approved economic incentive, marketable permits, emissions trading, and other similar programs or processes for changes that are provided for in this permit.
(Authority for term: OAC rule 3745-77-07(A)(9))

9. Reasonably Anticipated Operating Scenarios

The permittee is hereby authorized to make changes among operating scenarios authorized in this permit without notice to the Ohio EPA, but, contemporaneous with making a change from one operating scenario to another, the permittee must record in a log at the permitted facility the scenario under which the permittee is operating. The permit shield provided in these general terms and conditions shall apply to all operating scenarios authorized in this permit.
(Authority for term: OAC rule 3745-77-07(A)(10))

10. Reopening for Cause

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

- a. Additional applicable requirements under the Act become applicable to one or more emissions units covered by this permit, and this permit has a remaining term of three or more years. Such a reopening shall be completed not later than eighteen (18) months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions has been extended pursuant to paragraph (E)(1) of OAC rule 3745-77-08.
- b. This permit is issued to an affected source under the acid rain program and additional requirements (including excess emissions requirements) become applicable. Upon approval by the Administrator, excess emissions offset plans shall be deemed to be incorporated into the permit, and shall not require a reopening of this permit.
- c. The Director of the Ohio EPA or the Administrator of the U.S. EPA determines that the federally applicable requirements in this permit are based on a material mistake, or that inaccurate statements were made in establishing the emissions standards or other terms and conditions of this permit related to such federally applicable requirements.
- d. The Administrator of the U.S. EPA or the Director of the Ohio EPA determines that this permit must be revised or revoked to assure compliance with the applicable requirements.
(Authority for term: OAC rules 3745-77-07(A)(12) and 3745-77-08(D))

11. Federal and State Enforceability

Only those terms and conditions designated in this permit as federally enforceable, that are required under the Act, or any of its applicable requirements, including relevant provisions designed to limit the potential to emit of a source, are enforceable by the Administrator of the U.S. EPA, the State, and citizens under the Act. All other terms and conditions of this permit shall not be federally enforceable and shall be enforceable under State law only.
(Authority for term: OAC rule 3745-77-07(B))

12. Compliance Requirements

- a. Any document (including reports) required to be submitted and required by a federally applicable requirement in this Title V permit shall include a certification by a responsible official that, based on information and belief formed after reasonable inquiry, the statements in the document are true, accurate, and complete.
- b. Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the Director of the Ohio EPA or an authorized representative of the Director to:
 - i. At reasonable times, enter upon the permittee's premises where a source is located or the emissions-related activity is conducted, or where records must be kept under the conditions of this permit.
 - ii. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit, subject to the protection from disclosure to the public of confidential information consistent with paragraph (E) of OAC rule 3745-77-03.

- iii. Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit.
 - iv. As authorized by the Act, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit and applicable requirements.
- c. The permittee shall submit progress reports to the appropriate Ohio EPA District Office or local air agency concerning any schedule of compliance for meeting an applicable requirement. Progress reports shall be submitted semiannually, or more frequently if specified in the applicable requirement or by the Director of the Ohio EPA. Progress reports shall contain the following:
- i. Dates for achieving the activities, milestones, or compliance required in any schedule of compliance, and dates when such activities, milestones, or compliance were achieved.
 - ii. An explanation of why any dates in any schedule of compliance were not or will not be met, and any preventive or corrective measures adopted.
- d. Compliance certifications concerning the terms and conditions contained in this permit that are federally enforceable emission limitations, standards, or work practices, shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) and the Administrator of the U.S. EPA in the following manner and with the following content:
- i. Compliance certifications shall be submitted annually on a calendar year basis. The annual certification shall be submitted (i.e., postmarked) on or before April 30th of each year during the permit term.
 - ii. Compliance certifications shall include the following:
 - (a) An identification of each term or condition of this permit that is the basis of the certification.
 - (b) The permittee's current compliance status.
 - (c) Whether compliance was continuous or intermittent.
 - (d) The method(s) used for determining the compliance status of the source currently and over the required reporting period.
 - (e) Such other facts as the Director of the Ohio EPA may require in the permit to determine the compliance status of the source.
 - iii. Compliance certifications shall contain such additional requirements as may be specified pursuant to sections 114(a)(3) and 504(b) of the Act.

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

13. Permit Shield

- a. Compliance with the terms and conditions of this permit (including terms and conditions established for alternate operating scenarios, emissions trading, and emissions averaging, but excluding terms and conditions for which the permit shield is expressly prohibited under OAC rule 3745-77-07) shall be deemed compliance with the applicable requirements identified and addressed in this permit as of the date of permit issuance.
 - b. This permit shield provision shall apply to any requirement identified in this permit pursuant to OAC rule 3745-77-07(F)(2), as a requirement that does not apply to the source or to one or more emissions units within the source.
- (Authority for term: OAC rule 3745-77-07(F))*

14. Operational Flexibility

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

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

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

15. Emergencies

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

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

16. Off-Permit Changes

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

- a. The change does not result in conditions that violate any applicable requirements or that violate any existing federally enforceable permit term or condition.
- b. The permittee provides contemporaneous written notice of the change to the Director and the Administrator of the U.S. EPA, except that no such notice shall be required for changes that qualify as insignificant emissions levels or activities as defined in OAC rule 3745-77-01(U). Such written notice shall describe each such change, the date of such change, any change in emissions or pollutants emitted, and any federally applicable requirement that would apply as a result of the change.
- c. The change shall not qualify for the permit shield under OAC rule 3745-77-07(F).
- d. The permittee shall keep a record describing all changes made at the source that result in emissions of a regulated air pollutant subject to an applicable requirement, but not otherwise regulated under the permit, and the emissions resulting from those changes.
- e. The change is not subject to any applicable requirement under Title IV of the Act or is not a modification under any provision of Title I of the Act.

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

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

17. Compliance Method Requirements

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

(This term is provided for informational purposes only.)

18. Insignificant Activities or Emissions Levels

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

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

19. Permit to Install Requirement

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

20. Air Pollution Nuisance

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

21. Permanent Shutdown of an Emissions Unit

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

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

No emissions unit certified by the responsible official as being permanently shut down may resume operation without first applying for and obtaining a permit to install pursuant to OAC Chapter 3745-31.
(Authority for term: OAC rule 3745-77-01)

22. Title VI Provisions

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

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

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

B. State Only Enforceable Section

1. Reporting Requirements Related to Monitoring and Record Keeping Requirements

The permittee shall submit required reports in the following manner:

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

2. Records Retention Requirements

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

3. Inspections and Information Requests

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

4. Scheduled Maintenance/Malfunction Reporting

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

5. Permit Transfers

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

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

If no emission limitation (or control requirement), operational restriction and/or control device parameter limitation deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations

occurred during that quarter. The reports shall be submitted (i.e., postmarked) by January 31, April 30, July 31, and October 31 of each year; and each report shall cover the previous calendar quarter.

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

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

Part II - Specific Facility Terms and Conditions

A. State and Federally Enforceable Section

1. Pursuant to 40 CFR Part 64, the permittee has submitted, and the Ohio EPA has approved a compliance assurance monitoring plan for emissions units P004, P041, P042, P045 and P046 at this facility. The permittee shall comply with the provisions of the plan during any operation of the aforementioned emissions units.

(Authority for term: 40 CFR Part 64)

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

B002 - JC 200 space heater;
B003 - MSI 126 Dravo heater;
B004 - MSI 9040 Dravo heater;
B005 - cover line heater;
B006 - Fulton boiler;
B008 - mold air rotation heater;
P021 - drying oven OBL;
P022 - drying oven tank;
P023 - drying oven NBL;
P028 - Keith re-fire kiln;
P036 - ware dryer NBL;
P040 - plaster mold dryers;
Z004 - electrical generator #1;
Z005 - diesel air compressor;
Z017 - make-up air #1;
Z018 - make-up air #2;
Z019 - make-up air #3;
Z020 - make-up air #4
Z021 - make-up air #5;
Z022 - make-up air #6;
Z023 - make-up air #7;
Z024 - Beckley shuttle kilns;
Z028 - emergency generator; and
Z029 - emergency compressor.

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

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

B. State Only Enforceable Section

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

P001 - clay unloading silos;
P020 - whiteware finish;
P033 - kiln #2;
Z002 - glaze blowoff booth;
Z007 - benchcast vacuum;
Z008 - shipping vacuum;
Z009 - new bowl line vacuum;
Z025 - whiteware finish #2;
Z026 - 500 gallon diesel storage tank;
Z027 - 1000 gallon diesel storage tank.

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Clay Transfer System (P002)
Activity Description: Automated screw conveyors and bucket elevators

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

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

2. Additional Terms and Conditions

- 2.a This emissions unit is exempt from the visible PE limitations specified in OAC rule 3745-17-07(A), pursuant to OAC rule 3745-17-07(A)(3)(h), because OAC rule 3745-17-11 is not applicable.
- 2.b The uncontrolled mass rate of particulate emissions from this emissions unit is less than 10 pounds/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 since the facility is located in Ashland County, which is identified as a P-2 county.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
clay transfer system	none	none

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: Glaze Ball Mills (P003)
Activity Description: Ball Mills in Glaze Room

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

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

2. Additional Terms and Conditions

- 2.a This emissions unit is exempt from the visible PE limitations specified in OAC rule 3745-17-07(A), pursuant to OAC rule 3745-17-07(A)(3)(h), because OAC rule 3745-17-11 is not applicable.
- 2.b The uncontrolled mass rate of particulate emissions from this emissions unit is less than 10 pounds/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 since the facility is located in Ashland County, which is identified as a P-2 county.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
glaze ball mills	none	none

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: Glaze Spray Booths (Hand) (P004)
Activity Description: Glaze Spray Booths (Hand Spray)

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
glaze spray booth, with cyclone	OAC rule 3745-17-07(A)	Visible particulate emissions (PE) shall not exceed 20% opacity, as a six-minute average, except as otherwise provided by rule. (See A.I.2.c.)
	OAC rule 3745-17-11(B)	5.22 lbs PE/hr (See A.I.2.b.)
	OAC rule 3745-17-11(C)	See A.II.1, A.III.5 and A.I.2.a.
	40 CFR, Part 64 - Compliance Assurance Monitoring (CAM)	See A.III. and A.IV.

2. Additional Terms and Conditions

- 2.a On February 1, 2008, OAC rule 3745-17-11 was revised to include paragraph (C) pertaining to requirements for controlling of particulate emissions from surface coating processes. Paragraph (C) of OAC rule 3745-17-11, and Sections A.II.1 and A.III.5 of this permit for this emissions unit, shall be federally enforceable on the date the U.S. EPA approves paragraph (C) of OAC rule 3745-17-11 as a revision to the Ohio State Implementation Plan.
- 2.b The requirements to comply with this rule and with section A.V.1.b of this permit shall terminate on the date the U.S. EPA approves the requirements based on OAC rule 3745-17-11(C) as a revision to the Ohio SIP for particulate emissions.
- 2.c The requirements to comply with this rule and with section A.V.1.a of this permit shall terminate on the date the U.S. EPA approves the requirements based on OAC rule 3745-17-11(C) as a revision to the Ohio SIP for particulate emissions.

[This emissions unit will be exempt from the visible PE limitations specified in OAC rule 3745-17-07(A), pursuant to OAC rule 3745-17-07(A)(3)(h), because the emissions unit will no longer be subject to any mass emission limitation based on OAC rule 3745-17-11.]

II. Operational Restrictions

1. Any surface coating process not exempt under paragraphs (A)(1)(h) to (A)(1)(l) of OAC rule 3745-17-11 shall be controlled by a dry particulate filter, waterwash, or equivalent control device or devices. The owner or operator shall operate the control devices in accordance with the manufacturer's recommendations, instructions, or operating manuals with any modifications deemed necessary by the owner or operator.

[OAC rule 3745-77-07(A)(1) and OAC rule 3745-17-11(C)]

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall properly install, operate, and maintain equipment to continuously monitor and record the pressure drop, in inches of water, across the cyclone during operation of this emissions unit, including periods of startup and shutdown. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop, in inches of water, across the cyclone on daily basis.

Whenever the monitored value for the pressure drop deviates from the range specified below, the permittee shall promptly investigate the cause of the deviation. The permittee shall maintain records of the following information for each investigation: the date and time the deviation began and the magnitude of the deviation at that time, the date(s) the investigation was conducted, the names of the personnel who conducted the investigation, and the findings and recommendations.

In response to each required investigation to determine the cause of a deviation, the permittee shall take prompt corrective action to bring the operation of the control equipment within the acceptable range specified below, unless the permittee determines that corrective action is not necessary and documents the reasons for that determination and the date and time the deviation ended. The permittee shall maintain records of the following information for each corrective action taken: a description of the corrective action, the date it was completed, the date and time the deviation ended, the total period of time (in minutes) during which there was a deviation, the pressure drop immediately after the corrective action, and the names of the personnel who performed the work. Investigation and records required by this paragraph does not eliminate the need to comply with the requirements of OAC rule 3745-15-06 if it is determined that a malfunction has occurred.

The acceptable range for the pressure drop across the cyclone is 1 to 6 inches of water.

The range is effective for the duration of this permit, unless revisions are requested by the permittee and approved in writing by the appropriate Ohio EPA District Office or local air agency. The permittee may request revisions to the range based upon information obtained during future particulate emission tests that demonstrate compliance with the allowable particulate emission rate for this emissions unit. In addition, approved revisions to the range will not constitute a relaxation of the monitoring requirements of this permit and may be incorporated into this permit by means of a minor permit modification.

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

2. The CAM plan for this emissions unit has been developed for particulate emissions. The CAM performance indicators for the cyclone controlling this emissions unit are the static pressure drop across the cyclone, which was established in accordance with the manufacturer's recommendations. When the static pressure drop show operation outside the indicator range(s), the permittee shall take corrective actions to restore operation of the emissions unit and/or its control equipment to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions, and shall comply with the reporting requirements specified in Section A.IV below. The emissions unit and control equipment shall be operated in accordance with the approved CAM Plan, or any approved revision of the Plan. The cyclone shall not be configured to have bypass capability.

[OAC 3745-77-07(A)(3)(a) and (b) and 40 CFR, Part 64]

3. At all times, the permittee shall maintain the monitoring, including but not limited to, maintaining necessary parts for routine repairs of the monitoring equipment.

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

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

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

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

5. Any surface coating process not exempt under paragraph (A)(1)(h) to (A)(1)(k) of OAC rule 3745-17-11 shall follow all of these work practices:
- a. The owner or operator shall maintain documentation of the manufacturer's recommendations, instructions, or operating manuals for the control devices with any modifications deemed necessary by the owner or operator during the time period in which the control devices are utilized.
 - b. The owner or operator shall conduct periodic inspections of the control devices to determine whether the devices are operating in accordance with the manufacturer's recommendations, instructions, or operating manuals with any modifications deemed necessary by the owner or operator. The periodic inspections of each control device shall be performed at a frequency that is based upon the recommendation of the manufacturer of the control device, and the owner or operator shall maintain a copy of the manufacturer's recommended inspection frequency. In addition to these periodic inspections, not less than once each calendar year the owner or operator shall conduct a comprehensive inspection of the control device while the emissions unit is shut down and perform any needed maintenance and repair for the control device to ensure that it is able to routinely operate in accordance with the manufacturer's recommendations.
 - c. The owner or operator shall document each inspection of a control device by maintaining a record that includes the date of the inspection, a description of each problem identified and the date it was corrected, a description of the maintenance and repairs performed, and the name of the person who performed the inspection.
 - d. In the event that the control devices are not operating in accordance with the manufacturer's recommendations, instructions, or operating manuals with any modifications deemed necessary by the owner or operator, the control devices shall be expeditiously repaired or otherwise returned to operation in accordance with such requirements. The owner or operator shall maintain documentation of those periods when the control devices are not operating in accordance with such requirements.
 - e. Any documentation required under paragraphs (C)(2)(d) and (C)(2)(e) of OAC rule 3745-17-11 shall be maintained for not less than five years.
 - f. Any documentation required under paragraphs (C)(2)(a) to (C)(2)(e) of OAC rule 3745-17-11 shall be maintained at the facility and shall be made available to Ohio EPA upon request.

[OAC 3745-77-07(C)(1) and OAC rule 3745-17-11(C)]

IV. Reporting Requirements

1. The permittee shall submit quarterly reports that identify the following information concerning the operation of the control equipment during the operation of this emissions unit:
 - a. each period of time when the pressure drop across the cyclone field was outside of the acceptable range;
 - b. an identification of each incident of deviation described in (a) where a prompt investigation was not conducted;
 - c. an identification of each incident of deviation described in (a) where prompt corrective action, that would bring the pressure drop into compliance with the acceptable range, was determined to be necessary and was not taken; and
 - d. an identification of each incident of deviation described in (a) where proper records were not maintained for the investigation and/or the corrective action.

These quarterly reports shall be submitted (i.e., postmarked) by January 31, April 30, July 31, and October 31 of each year; and each report shall cover the previous calendar quarter.

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

V. Testing Requirements

1. Compliance with the emission limitations in section A.I of the terms and conditions of this permit shall be determined in accordance with the following methods:
 - 1.a Emission Limitation: Visible PE shall not exceed 20% opacity, as a six-minute average, except as otherwise provided by rule.

Applicable Compliance Method: If required, the method to be employed to demonstrate compliance with the VE limitation shall be OAC rule 3745-17-03(B)(1).

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

- 1.b Emission Limitation: 5.22 pounds PE/hour

Applicable Compliance Method: The permittee may demonstrate compliance with this emission limitation as follows:

- i. multiply the maximum quantity of glaze employed (46 gallons/hour) by the density of the glaze (14.0 pounds/gallon);
- ii. multiply the value from i by the maximum solids content, by weight, of the glaze (0.65);
- iii. multiply the value from ii by the transfer efficiency of this operation (1-0.932); and
- iv. multiply the value from iii by a control factor of (1-.90)*.

* The estimated control efficiency of the cyclone is 90%.

If required, the method to be employed to demonstrate compliance with the emission limitation shall be OAC rule 3745-17-03(B)(10).

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

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
glaze spray booth, with cyclone	none	none

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: Talc Duster NBL (P010)
Activity Description: Talc Dusting Tub NBL

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
talc duster NBL, with cyclone	OAC rule 3745-17-07(A)	none (See A.I.2.a.)
	OAC rule 3745-17-11(B)	none (See A.I.2.b.)

2. Additional Terms and Conditions

- 2.a This emissions unit is exempt from the visible PE limitations specified in OAC rule 3745-17-07(A), pursuant to OAC rule 3745-17-07(A)(3)(h), because OAC rule 3745-17-11 is not applicable.
- 2.b The uncontrolled mass rate of particulate emissions from this emissions unit is less than 10 pounds/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 since the facility is located in Ashland County, which is identified as a P-2 county.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
talc duster NBL, with cyclone	none	none

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: Talc Duster Tanks (P011)

Activity Description: Talc Dusting Tub Tank Line

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
talc duster tanks, with cyclone	OAC rule 3745-17-07(A)	none (See A.I.2.a.)
	OAC rule 3745-17-11(B)	none (See A.I.2.b.)

2. Additional Terms and Conditions

- 2.a This emissions unit is exempt from the visible PE limitations specified in OAC rule 3745-17-07(A), pursuant to OAC rule 3745-17-07(A)(3)(h), because OAC rule 3745-17-11 is not applicable.
- 2.b The uncontrolled mass rate of particulate emissions from this emissions unit is less than 10 pounds/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 since the facility is located in Ashland County, which is identified as a P-2 county.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
talc duster tanks, with cyclone	none	none

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 #7 (P016)

Activity Description: Kiln #7 (Updated AP-42 factors made the unit Non-Insignificant in 2007)

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
natural gas fired kiln #7	OAC rule 3745-17-07(A)	See A.I.2.a.
	OAC rule 3745-17-11(B)	See A.I.2.b.
	OAC rule 3745-18-06	See A.I.2.c.

2. Additional Terms and Conditions

- 2.a** This emissions unit is exempt from the visible emission limitations specified in OAC rule 3745-17-07(A) pursuant to OAC rule 3745-17-07(A)(3)(h), because OAC rule 3745-17-11 is not applicable.
- 2.b** The uncontrolled mass rate of particulate emissions from this emissions unit is less than 10 lbs/hr. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(ii), Figure II of OAC rule 3745-17-11 does not apply. Also, Table I does not apply since the facility is located in Ashland county.
- 2.c** The emissions unit is exempt from the requirements of OAC rule 3745-18-06 in accordance with OAC rule 3745-18-06(A).

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

None

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
natural gas fired kiln #7	none	none

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 #9 (P018)

Activity Description: Kiln #9 (Updated AP-42 factors made the unit Non-Insignificant in 2007)

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
natural gas fired kiln #9	OAC rule 3745-17-07(A)	See A.I.2.a.
	OAC rule 3745-17-11(B)	See A.I.2.b.
	OAC rule 3745-18-06	See A.I.2.c.

2. Additional Terms and Conditions

- 2.a** This emissions unit is exempt from the visible emission limitations specified in OAC rule 3745-17-07(A) pursuant to OAC rule 3745-17-07(A)(3)(h), because OAC rule 3745-17-11 is not applicable.
- 2.b** The uncontrolled mass rate of particulate emissions from this emissions unit is less than 10 lbs/hr. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(ii), Figure II of OAC rule 3745-17-11 does not apply. Also, Table I does not apply since the facility is located in Ashland county.
- 2.c** The emissions unit is exempt from the requirements of OAC rule 3745-18-06 in accordance with OAC rule 3745-18-06(A).

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

None

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
natural gas fired kiln #9	none	none

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: Keith Refire Kiln (P028)

Activity Description: Refire Kiln (Updated AP-42 factors made the unit Non-Insignificant in 2007)

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
natural gas fired Keith refire kiln	OAC rule 3745-31-05(A)(3) (PTI #03-17397, issued 1/29/08)	0.98 lb nitrogen oxide (NOx)/hr and 4.29 tons NOx/year
		0.82 lbs carbon monoxide (CO)/hr and 3.61 tons CO/year
		Visible particulate emissions shall not exceed 20% opacity, as a six-minute average.
		See A.I.2.a.
	OAC rule 3745-17-07(A)	See A.I.2.b.
	OAC rule 3745-17-11(B)	See A.I.2.c.
	OAC rule 3745-18-06	See A.I.2.d.
	OAC rule 3745-21-08(B)	See A.I.2.e.

2. Additional Terms and Conditions

- Best available technology (BAT) control requirements for this emissions unit has been determined to be the firing of only natural gas and compliance with the terms and conditions of this permit.

Emissions from particulate matter less than 10 microns in size (PM10), sulfur dioxide (SO2) have been determined to be negligible, therefore, no limits are being established for these pollutants under OAC rule 3745-31-03(A)(3) at this time.
- This emissions unit is exempt from the visible emission limitations specified in OAC rule 3745-17-07(A) pursuant to OAC rule 3745-17-07(A)(3)(h), because OAC rule 3745-17-11 is not applicable.
- The uncontrolled mass rate of particulate emissions from this emissions unit is less than 10 lbs/hr. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(ii), Figure II of OAC rule 3745-17-11 does not apply. Also, Table I does not apply since the facility is located in Ashland county.
- The emission limitation specified by this rule is less stringent than the uncontrolled potential to emit (PTE) for SO2 for this emissions unit. The PTE for SO2 from this emissions unit is 0.04 tons per year and was based on the maximum hourly fuel usage rate of 0.0098 (MMCF), an emission factor from AP-42, Table 1.4-3 & 4 (7/98) of 0.6 lb/10⁶ scf, a maximum operating schedule of 8760 hours per year and a conversion factor of 1 ton per 2000 lbs.

2. Additional Terms and Conditions (continued)

- 2.e** 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 this Permit to Install.

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.

II. Operational Restrictions

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

[OAC rule 3745-77-07(A)(1) and PTI #03-17397]

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.

[OAC rule 3745-77-07(C)(1) and PTI #03-17397]

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.

[OAC rule 3745-77-07(C)(1) and PTI #03-17397]

V. Testing Requirements

1. Compliance with the emission limitations specified in section A.1 of these terms and conditions shall be determined in accordance with the following methods:

- 1.a** Emission Limitation: 0.98 lb NOx/hr; 4.29 tons NOx/yr

Applicable Compliance Method: The hourly and annual emission limitations represent the potential to emit* of the emissions unit. Therefore, no record keeping, deviation reporting, or compliance method calculations are required to demonstrate compliance with this limitations. If required, the permittee shall demonstrate compliance with the hourly limitation by emissions testing conducted in accordance with Methods 1 through 4 and 7 of 40 CFR, Part 60, Appendix A

*The hourly potential to emit is based on the maximum hourly fuel usage rate of 0.0098 and an AP-42, Table 1.4-3 & 4 (7/98) emission factor of 0.6 lb/10⁶ scf. The annual limitation was developed by multiplying the potential lb/hr emissions by a maximum annual operating schedule of 8760 hrs/yr and dividing by 2000 lbs/ton.

[OAC rule 3745-77-07(C)(1) and PTI #03-17397]

V. Testing Requirements (continued)

1.b Emission Limitation: 0.82 lb CO/hr; 3.61 tons CO/year

Applicable Compliance Method: The hourly and annual emission limitations represent the potential to emit* of the emissions unit. Therefore, no record keeping, deviation reporting, or compliance method calculations are required to demonstrate compliance with this limitations. If required, the permittee shall demonstrate compliance with the hourly limitation by emissions testing conducted in accordance with Methods 1 through 4 and 10 of 40 CFR, Part 60, Appendix A.

*The hourly potential to emit is based on the maximum hourly fuel usage rate of 0.0098 and an AP-42, Table 1.4-3 & 4 (7/98) emission factor of 84 lb/10⁶ scf. The annual limitation was developed by multiplying the potential lb/hr emissions by a maximum annual operating schedule of 8760 hrs/yr and dividing by 2000 lbs/ton.

[OAC rule 3745-77-07(C)(1) and PTI #03-17397]

1.c Emission Limitation: 0.82 lb CO/hr; 3.61 tons CO/year

Applicable Compliance Method: The hourly and annual emission limitations represent the potential to emit* of the emissions unit. Therefore, no record keeping, deviation reporting, or compliance method calculations are required to demonstrate compliance with this limitations. If required, the permittee shall demonstrate compliance with the hourly limitation by emissions testing conducted in accordance with Methods 1 through 4 and 10 of 40 CFR, Part 60, Appendix A.

*The hourly potential to emit is based on the maximum hourly fuel usage rate of 0.0098 and an AP-42, Table 1.4-3 & 4 (7/98) emission factor of 84 lb/10⁶ scf. The annual limitation was developed by multiplying the potential lb/hr emissions by a maximum annual operating schedule of 8760 hrs/yr and dividing by 2000 lbs/ton.

[OAC rule 3745-77-07(C)(1) and PTI #03-17397]

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
natural gas fired Keith refire kiln	See B.VI.1.	See B.VI.1.

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

- Modeling to demonstrate compliance with Ohio EPA's "Air Toxic Policy" was not necessary because the emissions unit's maximum annual emissions for each toxic compound will be less than 1.0 ton. OAC Chapter 3745-31 requires permittees to apply for and obtain a new or modified Permit to Install prior to making a "modification" as defined by OAC rule 3745-31-01. The permittee is hereby advised that changes in the composition of the materials, or use of new materials, that would cause the emissions of any pollutant that has a listed TLV to increase above 1.0 ton per year may require the permittee to apply for and obtain a new Permit to Install.

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Kiln #2 (P033)

Activity Description: Kiln #2 (Updated AP-42 factors made the unit Non-Insignificant in 2007)

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
natural gas fired kiln #2	OAC rule 3745-31-05(A)(3) (PTI #03-17350, issued 10/30/07)	1.65 lbs carbon monoxide (CO)/hr and 7.23 tons CO/year Visible particulate emissions shall not exceed 20% opacity, as a six-minute average See A.I.2.a.
	OAC rule 3745-17-07(A)	See A.I.2.b.
	OAC rule 3745-17-11(B)	See A.I.2.c.
	OAC rule 3745-18-06	See A.I.2.d.
	OAC rule 3745-21-08(B)	See A.I.2.e.

2. Additional Terms and Conditions

- 2.a Best available technology (BAT) control requirements for this emissions unit has been determined to be the firing of only natural gas and compliance with the terms and conditions of this permit.

Emissions from particulate matter less than 10 microns in size (PM10), nitrogen oxide (NOx) and sulfur dioxide (SO2) have been determined to be negligible, therefore, no limits are being established for these pollutants under OAC rule 3745-31-05(A)(3) at this time.
- 2.b This emissions unit is exempt from the visible emission limitations specified in OAC rule 3745-17-07(A) pursuant to OAC rule 3745-17-07(A)(3)(h), because OAC rule 3745-17-11 is not applicable.
- 2.c The uncontrolled mass rate of particulate emissions from this emissions unit is less than 10 lbs/hr. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(ii), Figure II of OAC rule 3745-17-11 does not apply. Also, Table I does not apply since the facility is located in Ashland county.
- 2.d The emission limitation specified by this rule is less stringent than the uncontrolled potential to emit (PTE) for SO2 for this emissions unit. The PTE for SO2 from this emissions unit is 0.09 ton per year and was based on the maximum hourly process capacity of 0.50 tons, an emission factor from AP-42, Table 11.7-1 (7/96) of 0.045 lbs SO2/ton, a maximum operating schedule of 8760 hours per year and a conversion factor of 1 ton per 2000 lbs.

2. Additional Terms and Conditions (continued)

- 2.e** 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 this Permit to Install.

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.

II. Operational Restrictions

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

[OAC rule 3745-77-07(A)(1) and PTI #03-17350]

III. Monitoring and/or Record Keeping Requirements

1. For each day during which the permittee burns a fuel other than natural gas, the permittee

[OAC rule 3745-77-07(C)(1) and PTI #03-17350]

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.

[OAC rule 3745-77-07(C)(1) and PTI #03-17350]

V. Testing Requirements

1. Compliance with the emission limitations specified in section A.1 of these terms and conditions shall be determined in accordance with the following methods:

- 1.a** Emission Limitation: 1.65 lbs CO/hr and 7.23 tons CO/year

Applicable Compliance Method: The hourly and annual emission limitations represent the potential to emit* of the emissions unit. Therefore, no record keeping, deviation reporting, or compliance method calculations are required to demonstrate compliance with this limitations. If required, the permittee shall demonstrate compliance with the hourly limitation by emissions testing conducted in accordance with Methods 1-4 and 18, 25, or 25A as applicable of 40 CFR, Part 60, Appendix A.

*The hourly potential to emit is based on the maximum hourly process capacity of 0.50 tons and an AP-42, Table 11.7-1 (7/98) emission factor of 3.3 lbs CO/ton. The annual limitation was developed by multiplying the potential lb/hr emissions by a maximum annual operating schedule of 8760 hrs/yr and dividing by 2000 lbs/ton.

[OAC rule 3745-77-07(C)(1) and PTI #03-17350]

- 1.b** Emission Limitation: Visible particulate stack emissions shall not exceed 20% opacity, as a six-minute average

Applicable Compliance Method: If required, compliance shall be determined in accordance with the test method and procedures specified in Method 9 of 40 CFR Part 60, Appendix A.

[OAC rule 3745-77-07(C)(1) and PTI #03-17350]

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
natural gas fired kiln #2	See B.VI.1.	See B.VI.1.

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

1. Modeling to demonstrate compliance with Ohio EPA's "Air Toxic Policy" was not necessary because the emissions unit's maximum annual emissions for each toxic compound will be less than 1.0 ton. OAC Chapter 3745-31 requires permittees to apply for and obtain a new or modified Permit to Install prior to making a "modification" as defined by OAC rule 3745-31-01. The permittee is hereby advised that changes in the composition of the materials, or use of new materials, that would cause the emissions of any pollutant that has a listed TLV to increase above 1.0 ton per year may require the permittee to apply for and obtain a new Permit to Install.

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Plaster Delivery System (P041)
Activity Description: Plaster Delivery System

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
plaster unloading (delivery) system, with baghouse	OAC rule 3745-17-07(A)	Visible particulate emissions (PE) shall not exceed 20% opacity, as a six-minute average, except as otherwise provided by rule.
	OAC rule 3745-17-11(B)	See A.I.2.a.
	OAC rule 3745-31-05 (PTI #03-6539, issued 6/17/92)	0.17 lb PE/hr and 0.74 tons PE/yr
	40 CFR, Part 64 - Compliance Assurance Monitoring (CAM)	See A.I.2.b. See A.III. and A.IV.

2. Additional Terms and Conditions

- 2.a The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05.
- 2.b The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A).
- 2.c The 0.17 lb PE/hour emission limitation was established for PTI purposes to reflect the potential to emit for this emissions unit. Therefore, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with this limitation.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall properly install, operate, and maintain equipment to continuously monitor and record the pressure drop, in inches of water, across the baghouse during operation of this emissions unit, including periods of startup and shutdown. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop, in inches of water, across the baghouse on daily basis.

Whenever the monitored value for the pressure drop deviates from the range specified below, the permittee shall promptly investigate the cause of the deviation. The permittee shall maintain records of the following information for each investigation: the date and time the deviation began and the magnitude of the deviation at that time, the date(s) the investigation was conducted, the names of the personnel who conducted the investigation, and the findings and recommendations.

In response to each required investigation to determine the cause of a deviation, the permittee shall take prompt corrective action to bring the operation of the control equipment within the acceptable range specified below, unless the permittee determines that corrective action is not necessary and documents the reasons for that determination and the date and time the deviation ended. The permittee shall maintain records of the following information for each corrective action taken: a description of the corrective action, the date it was completed, the date and time the deviation ended, the total period of time (in minutes) during which there was a deviation, the pressure drop immediately after the corrective action, and the names of the personnel who performed the work. Investigation and records required by this paragraph does not eliminate the need to comply with the requirements of OAC rule 3745-15-06 if it is determined that a malfunction has occurred.

The acceptable range for the pressure drop across the baghouse is 2 to 6 inches of water.

The range is effective for the duration of this permit, unless revisions are requested by the permittee and approved in writing by the appropriate Ohio EPA District Office or local air agency. The permittee may request revisions to the range based upon information obtained during future particulate emission tests that demonstrate compliance with the allowable particulate emission rate for this emissions unit. In addition, approved revisions to the range will not constitute a relaxation of the monitoring requirements of this permit and may be incorporated into this permit by means of a minor permit modification.

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

2. The CAM plan for this emissions unit has been developed for particulate emissions. The CAM performance indicators for the baghouse controlling this emissions unit are the static pressure drop across the baghouse, which was established in accordance with the manufacturer's recommendations. When the static pressure drop show operation outside the indicator range(s), the permittee shall take corrective actions to restore operation of the emissions unit and/or its control equipment to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions, and shall comply with the reporting requirements specified in Section A.IV below. The emissions unit and control equipment shall be operated in accordance with the approved CAM Plan, or any approved revision of the Plan. The baghouse shall not be configured to have bypass capability.

[OAC 3745-77-07(A)(3)(a) and (b) and 40 CFR, Part 64]

3. At all times, the permittee shall maintain the monitoring, including but not limited to, maintaining necessary parts for routine repairs of the monitoring equipment.

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

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

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

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

5. Baghouse operating parameters shall be re-verified as a result of any changes to the operating conditions of the baghouse or emissions unit. In addition to periodic monitoring of the baghouse operating parameters, the permittee also has an inspection and maintenance program for the baghouse, including but not limited to:
- a. checking the bags / filters for deterioration or degradation;
 - b. checking the cleaning system for proper operation; and
 - c. checking the hoppers and conveyance systems for proper operation.

Based on the results of the monitoring and inspection program, repairs to the baghouse shall be made as needed. If the current CAM indicators and/or the baghouse inspection program is considered inadequate, the permittee shall develop a Quality Improvement Plan.

[OAC 3745-77-07(A)(3)(a) and (b) and 40 CFR, Part 64]

6. The permittee shall maintain a supply of replacement parts necessary to ensure ongoing proper operation of the baghouse system, including, but not limited to:
- a. filter bags;
 - b. timing boards and solenoid coils (for blow down function);
 - c. diaphragms and diaphragm seal kits;
 - d. spare set of belts; and
 - e. spare bearings for blower motor.

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

IV. Reporting Requirements

1. The permittee shall submit quarterly reports that identify the following information concerning the operation of the control equipment during the operation of this emissions unit:
- a. each period of time when the pressure drop across the baghouse field was outside of the acceptable range;
 - b. an identification of each incident of deviation described in (a) where a prompt investigation was not conducted;
 - c. an identification of each incident of deviation described in (a) where prompt corrective action, that would bring the pressure drop into compliance with the acceptable range, was determined to be necessary and was not taken; and
 - d. an identification of each incident of deviation described in (a) where proper records were not maintained for the investigation and/or the corrective action.

These quarterly reports shall be submitted (i.e., postmarked) by January 31, April 30, July 31, and October 31 of each year; and each report shall cover the previous calendar quarter.

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

V. Testing Requirements

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

V. Testing Requirements (continued)

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

Applicable Compliance Method: If required, the method to be employed to demonstrate compliance with the VE limitation shall be OAC rule 3745-17-03(B)(1).

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

- 1.b** Emission Limitation: 0.17 lb PE/hour and 0.74 tons PE/yr

Applicable Compliance Method: The permittee may demonstrate compliance with this emission limitation by multiplying the maximum amount of plaster unloaded (7,150 pounds/hour) by an estimated emission factor of 1 pound PE/100 pounds of plaster unloaded*, and then multiplying this value by a control factor of (1-0.998)**.

If required, the methods to be employed to demonstrate compliance with the emission limitation shall be Methods 1 - 5, which are located in 40 CFR, Part 60, Appendix A.

* This emission factor was derived by the permittee from material balance calculations.

** The estimated control efficiency of the baghouse is 99.8%.

Compliance with the annual emission limitation shall be determined by multiplying the hourly emission limitation by 8760 hours/year and dividing by 2000 lbs/ton.

[OAC rule 3745-77-07(C)(1) and PTI #03-6539]

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
plaster unloading (delivery) system, with baghouse	none	none

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: Glaze Spray Booth #1 (P042)
Activity Description: Glaze Spray Booth #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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
glaze spray booth #1, with cyclone, baffles and water curtain	OAC rule 3745-17-07(A)	Visible particulate emissions (PE) shall not exceed 20% opacity, as a six-minute average, except as otherwise provided by rule.
	OAC rule 3745-17-11(B)	See A.I.2.a.
	OAC rule 3745-31-05 (PTI #03-8221, modified 12/29/06)	1.32 lbs PE/hr and 5.8 tons PE/yr (for emissions units P042 and P045 combined)
	40 CFR, Part 64 - Compliance Assurance Monitoring (CAM)	See A.I.2.b. See A.III. and A.IV.

2. Additional Terms and Conditions

- 2.a The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05.
- 2.b The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A).

II. Operational Restrictions

1. The permittee shall operate the baffles and water curtain system when this emissions unit is in operation.
 [OAC rule 3745-77-07(A)(1)]

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall document each day whether or not the baffles and water curtain system were in service when the emissions unit was in operation.
 [OAC rule 3745-77-07(C)(1)]

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

2. The permittee shall properly install, operate, and maintain equipment to continuously monitor and record the pressure drop, in inches of water, across the cyclone during operation of this emissions unit, including periods of startup and shutdown. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop, in inches of water, across the cyclone on daily basis.

Whenever the monitored value for the pressure drop deviates from the range specified below, the permittee shall promptly investigate the cause of the deviation. The permittee shall maintain records of the following information for each investigation: the date and time the deviation began and the magnitude of the deviation at that time, the date(s) the investigation was conducted, the names of the personnel who conducted the investigation, and the findings and recommendations.

In response to each required investigation to determine the cause of a deviation, the permittee shall take prompt corrective action to bring the operation of the control equipment within the acceptable range specified below, unless the permittee determines that corrective action is not necessary and documents the reasons for that determination and the date and time the deviation ended. The permittee shall maintain records of the following information for each corrective action taken: a description of the corrective action, the date it was completed, the date and time the deviation ended, the total period of time (in minutes) during which there was a deviation, the pressure drop immediately after the corrective action, and the names of the personnel who performed the work. Investigation and records required by this paragraph does not eliminate the need to comply with the requirements of OAC rule 3745-15-06 if it is determined that a malfunction has occurred.

The acceptable range for the pressure drop across the cyclone is 1 to 6 inches of water.

The range is effective for the duration of this permit, unless revisions are requested by the permittee and approved in writing by the appropriate Ohio EPA District Office or local air agency. The permittee may request revisions to the range based upon information obtained during future particulate emission tests that demonstrate compliance with the allowable particulate emission rate for this emissions unit. In addition, approved revisions to the range will not constitute a relaxation of the monitoring requirements of this permit and may be incorporated into this permit by means of a minor permit modification.

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

3. The CAM plan for this emissions unit has been developed for particulate emissions. The CAM performance indicators for the cyclone controlling this emissions unit are the static pressure drop across the cyclone, which was established in accordance with the manufacturer's recommendations. When the static pressure drop show operation outside the indicator range(s), the permittee shall take corrective actions to restore operation of the emissions unit and/or its control equipment to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions, and shall comply with the reporting requirements specified in Section A.IV below. The emissions unit and control equipment shall be operated in accordance with the approved CAM Plan, or any approved revision of the Plan. The baghouse shall not be configured to have bypass capability.

[OAC 3745-77-07(A)(3)(a) and (b) and 40 CFR, Part 64]

4. At all times, the permittee shall maintain the monitoring, including but not limited to, maintaining necessary parts for routine repairs of the monitoring equipment.

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

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

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

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 baffles and water curtain system were 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.

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

2. The permittee shall submit quarterly reports that identify the following information concerning the operation of the control equipment during the operation of this emissions unit:
 - a. each period of time when the pressure drop across the cyclone field was outside of the acceptable range;
 - b. an identification of each incident of deviation described in (a) where a prompt investigation was not conducted;
 - c. an identification of each incident of deviation described in (a) where prompt corrective action, that would bring the pressure drop into compliance with the acceptable range, was determined to be necessary and was not taken; and
 - d. an identification of each incident of deviation described in (a) where proper records were not maintained for the investigation and/or the corrective action.

These quarterly reports shall be submitted (i.e., postmarked) by January 31, April 30, July 31, and October 31 of each year; and each report shall cover the previous calendar quarter.

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

V. Testing Requirements

1. Compliance with the emission limitations in section A.I of the terms and conditions of this permit shall be determined in accordance with the following methods:
 - 1.a Emission Limitation: Visible PE shall not exceed 20% opacity, as a six-minute average, except as otherwise provided by rule.

Applicable Compliance Method: If required, the method to be employed to demonstrate compliance with the VE limitation shall be OAC rule 3745-17-03(B)(1).

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

V. Testing Requirements (continued)

1.b Emission Limitation: 1.32 lbs PE/hour and 5.8 tons PE/yr

Applicable Compliance Method: The permittee may demonstrate compliance with this emission limitation as follows:

- i. multiply the maximum quantity of glaze employed (87 gallons/hour) by the density of the glaze (14.0 pounds/gallon);
- ii. multiply the value from i by the maximum solids content, by weight, of the glaze (0.65);
- iii. multiply the value from ii by the transfer efficiency of this operation (1-0.86); and
- iv. multiply the value from iii by a control factor of (1-.99)*.

* The estimated control efficiency of the water curtain is 99%.

If required, the methods to be employed to demonstrate compliance with the emission limitation shall be Methods 1 - 5, which are located in 40 CFR, Part 60, Appendix A.

The annual allowable PE limitation was developed by multiplying the hourly limitation by 8760, and then dividing by 2000. Therefore, as long as compliance with the hourly limitation is shown, compliance with the annual limitation shall be assumed.

[OAC rule 3745-77-07(C)(1) and PTI #03-8221]

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
glaze spray booth #1, with baffles and water curtain	none	none

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 #10 (P043)
Activity Description: Kiln #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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
23.7 mmBtu/hour natural gas-fired kiln #10	OAC rule 3745-17-07(A)	none (See A.I.2.a.)
	OAC rule 3745-17-11(B)	none (See A.I.2.b.)
	OAC rule 3745-18-06	See A.I.2.c.
	OAC rule 3745-21-08	See A.I.2.d.
	OAC rule 3745-31-05(A)(3) (PTI #03-17350, issued 10/30/07)	2.70 lbs particulate matter less than 10 microns in size(PM10)/hr; 11.83 tons PE/year (See A.I.2.e)
		2.42 lbs nitrogen oxide (NOx)/hr; 10.60 tons NOx/year
		18.2 lbs carbon monoxide (CO)/hr; 79.72 tons CO/year
	2.37 lbs organic compounds (OC)/hr; 10.38 tons OC/year	
	Visible particulate emissions shall not exceed 20% opacity, as a six-minute average	
	See A.I.2.f.	

2. Additional Terms and Conditions

- 2.a** This emissions unit is exempt from the visible PE limitations specified in OAC rule 3745-17-07(A), pursuant to OAC rule 3745-17-07(A)(3)(h), because OAC rule 3745-17-11 is not applicable.
- 2.b** The uncontrolled mass rate of particulate emissions from this emissions unit is less than 10 pounds/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 since the facility is located in Ashland County, which is identified as a P-2 county.

2. Additional Terms and Conditions (continued)

2.c The emission limitation specified by this rule is less stringent than the uncontrolled potential to emit (PTE) for SO₂ for this emissions unit. The PTE for SO₂ from this emissions unit is 1.10 tons per year and was based on the maximum hourly process capacity of 5.50 tons, an emission factor from AP-42, Table 11.7-1 (7/96) of 0.045 lbs SO₂/ton, a maximum operating schedule of 8760 hours per year and a conversion factor of 1 ton per 2000 lbs.

2.d 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 this Permit to Install.

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.e All PE are assumed to be particulate matter less than 10 microns in size.

2.f Best available technology (BAT) control requirements for this emissions unit has been determined to be the firing of only natural gas and compliance with the terms and conditions of this permit.

Emissions from sulfur dioxide (SO₂) have been determined to be negligible, therefore, no limits are being established under OAC rule 3745-31-05(A)(3) at this time.

II. Operational Restrictions

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

[OAC rule 3745-77-07(A)(1) and PTI #03-17350]

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.

[OAC rule 3745-77-07(C)(1) and PTI #03-17350]

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.

[OAC rule 3745-77-07(C)(1) and PTI #03-17350]

V. Testing Requirements

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

V. Testing Requirements (continued)

1.a Emission Limitation: 2.70 lbs PM10/hr; 11.83 tons PM10/year

Applicable Compliance Method: The hourly and annual emission limitations represent the potential to emit* of the emissions unit. Therefore, no record keeping, deviation reporting, or compliance method calculations are required to demonstrate compliance with this limitation. If required, the permittee shall demonstrate compliance in accordance with the test methods and procedures in Method 201 or 201A of 40 CFR Part 51, Appendix M. Alternative U.S. EPA approved test methods may be used with prior approval from Ohio EPA, Northwest District Office.

*The hourly potential to emit is based on the maximum hourly process capacity of 5.50 tons and an AP-42, Table 11.7-1 (7/98) emission factor of 0.49 lb PE/ton. The annual limitation was developed by multiplying the potential lb/hr emissions by a maximum annual operating schedule of 8760 hrs/yr and dividing by 2000 lbs/ton.

[OAC rule 3745-77-07(C)(1) and PTI #03-17350]

1.b Emission Limitation: 2.42 lbs NOx/hr; 10.60 tons NOx/year

Applicable Compliance Method: The hourly and annual emission limitations represent the potential to emit* of the emissions unit. Therefore, no record keeping, deviation reporting, or compliance method calculations are required to demonstrate compliance with this limitations. If required, the permittee shall demonstrate compliance with the hourly limitation by emissions testing conducted in accordance with Methods 1 through 4 and 7 of 40 CFR, Part 60, Appendix A

*The hourly potential to emit is based on the maximum hourly process capacity of 5.50 tons and a vendor supplied emission factor of 0.44 lb NOx/ton. The annual limitation was developed by multiplying the potential lb/hr emissions by a maximum annual operating schedule of 8760 hrs/yr and dividing by 2000 lbs/ton.

[OAC rule 3745-77-07(C)(1) and PTI #03-17350]

1.c Emission Limitation: 18.2 lbs CO/hr; 79.72 tons CO/year

Applicable Compliance Method: The hourly and annual emission limitations represent the potential to emit* of the emissions unit. Therefore, no record keeping, deviation reporting, or compliance method calculations are required to demonstrate compliance with this limitations. If required, the permittee shall demonstrate compliance with the hourly limitation by emissions testing conducted in accordance with Methods 1 through 4 and 10 of 40 CFR, Part 60, Appendix A.

*The hourly potential to emit is based on the maximum hourly process capacity of 5.50 tons and an AP-42, Table 11.7-1 (7/98) emission factor of 3.3 lb CO/ton. The annual limitation was developed by multiplying the potential lb/hr emissions by a maximum annual operating schedule of 8760 hrs/yr and dividing by 2000 lbs/ton.

[OAC rule 3745-77-07(C)(1) and PTI #03-17350]

1.d Emission Limitation: 2.37 lbs OC/hr; 10.38 tons OC/year

Applicable Compliance Method: The hourly and annual emission limitations represent the potential to emit* of the emissions unit. Therefore, no record keeping, deviation reporting, or compliance method calculations are required to demonstrate compliance with this limitations. If required, the permittee shall demonstrate compliance with the hourly limitation by emissions testing conducted in accordance with Methods 1 through 4 and Method 18, 25 or 25A of 40 CFR, Part 60, Appendix A.

*The hourly potential to emit is based on the maximum hourly process capacity of 5.50 tons and an AP-42, Table 11.7-1 (7/98) emission factor of 0.43 lb OC/ton. The annual limitation was developed by multiplying the potential lb/hr emissions by a maximum annual operating schedule of 8760 hrs/yr and dividing by 2000 lbs/ton.

[OAC rule 3745-77-07(C)(1) and PTI #03-17350]

V. Testing Requirements (continued)

1.e Emission Limitation: Visible particulate stack emissions shall not exceed 20% opacity, as a six-minute average

Applicable Compliance Method: If required, compliance shall be determined in accordance with the test method and procedures specified in Method 9 of 40 CFR Part 60, Appendix A.

[OAC rule 3745-77-07(C)(1) and PTI #03-17350]

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
23.7 mmBtu/hour natural gas-fired kiln #10	none	none

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: Glaze Spray Booth #2 (P045)
Activity Description: Glaze Spray Booth #2 (Previously Z001)

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
glaze spray booth #2, with cyclone, baffles and water curtain	OAC rule 3745-17-07(A)	(See A.I.2.e and d.)
	OAC rule 3745-17-11(B)	See A.I.2.a and A.I.2.c.
	OAC rule 3745-31-05 (PTI #03-8221, modified 12/29/06)	1.32 lbs particulate emissions (PE)/hr and 5.8 tons PE/yr (for emissions units P042 and P045 combined)
		BAT also includes compliance with the requirements based on OAC rule 3745-17-07(A). (See A.I.2.e.)
	OAC rule 3745-17-11(C)(3)	See A.I.2.b.
	40 CFR, Part 64 - Compliance Assurance Monitoring (CAM)	See A.III. and A.IV.

2. Additional Terms and Conditions

- 2.a The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05.
- 2.b On February 1, 2008, OAC rule 3745-17-11 was revised to include paragraph (C) pertaining to requirements for controlling of particulate emissions from surface coating processes. Paragraph (C) of OAC rule 3745-17-11 shall be federally enforceable on the date the U.S. EPA approves paragraph (C) of OAC rule 3745-17-11 as a revision to the Ohio State Implementation Plan.

 [Any surface coating process with a permit-to-install issued after January 1, 1990 that identifies particulate emission limitations and control measures based on best available technology, best available control technology, or the lowest achievable emission rate shall comply with such limitations and measures instead of paragraphs (C)(1) and (C)(2) of this rule.]
- 2.c The requirements to comply with this rule shall terminate on the date the U.S. EPA approves the requirements based on OAC rule 3745-17-11(C) as a revision to the Ohio SIP for particulate emissions.
- 2.d The requirements to comply with the visible PE limitation shall terminate on the date the U.S. EPA approves the requirements based on OAC rule 3745-17-11(C) as a revision to the Ohio SIP for particulate emissions.

2. Additional Terms and Conditions (continued)

- 2.e Visible PE shall not exceed 20% opacity, as a six-minute average, except as otherwise provided by rule.

II. Operational Restrictions

1. The permittee shall operate the baffles and water curtain system when this emissions unit is in operation.

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

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall document each day whether or not the baffles and water curtain system were in service when the emissions unit was in operation.

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

2. The permittee shall properly install, operate, and maintain equipment to continuously monitor and record the pressure drop, in inches of water, across the cyclone during operation of this emissions unit, including periods of startup and shutdown. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop, in inches of water, across the cyclone on daily basis.

Whenever the monitored value for the pressure drop deviates from the range specified below, the permittee shall promptly investigate the cause of the deviation. The permittee shall maintain records of the following information for each investigation: the date and time the deviation began and the magnitude of the deviation at that time, the date(s) the investigation was conducted, the names of the personnel who conducted the investigation, and the findings and recommendations.

In response to each required investigation to determine the cause of a deviation, the permittee shall take prompt corrective action to bring the operation of the control equipment within the acceptable range specified below, unless the permittee determines that corrective action is not necessary and documents the reasons for that determination and the date and time the deviation ended. The permittee shall maintain records of the following information for each corrective action taken: a description of the corrective action, the date it was completed, the date and time the deviation ended, the total period of time (in minutes) during which there was a deviation, the pressure drop immediately after the corrective action, and the names of the personnel who performed the work. Investigation and records required by this paragraph does not eliminate the need to comply with the requirements of OAC rule 3745-15-06 if it is determined that a malfunction has occurred.

The acceptable range for the pressure drop across the cyclone is 1 to 6 inches of water.

The range is effective for the duration of this permit, unless revisions are requested by the permittee and approved in writing by the appropriate Ohio EPA District Office or local air agency. The permittee may request revisions to the range based upon information obtained during future particulate emission tests that demonstrate compliance with the allowable particulate emission rate for this emissions unit. In addition, approved revisions to the range will not constitute a relaxation of the monitoring requirements of this permit and may be incorporated into this permit by means of a minor permit modification.

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

3. The CAM plan for this emissions unit has been developed for particulate emissions. The CAM performance indicators for the cyclone controlling this emissions unit are the static pressure drop across the cyclone, which was established in accordance with the manufacturer's recommendations. When the static pressure drop show operation outside the indicator range(s), the permittee shall take corrective actions to restore operation of the emissions unit and/or its control equipment to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions, and shall comply with the reporting requirements specified in Section A.IV below. The emissions unit and control equipment shall be operated in accordance with the approved CAM Plan, or any approved revision of the Plan. The baghouse shall not be configured to have bypass capability.

[OAC 3745-77-07(A)(3)(a) and (b) and 40 CFR, Part 64]

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

4. At all times, the permittee shall maintain the monitoring, including but not limited to, maintaining necessary parts for routine repairs of the monitoring equipment.

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

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

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

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 baffles and water curtain system were 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.

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

2. The permittee shall submit quarterly reports that identify the following information concerning the operation of the control equipment during the operation of this emissions unit:

- a. each period of time when the pressure drop across the cyclone field was outside of the acceptable range;
- b. an identification of each incident of deviation described in (a) where a prompt investigation was not conducted;
- c. an identification of each incident of deviation described in (a) where prompt corrective action, that would bring the pressure drop into compliance with the acceptable range, was determined to be necessary and was not taken; and
- d. an identification of each incident of deviation described in (a) where proper records were not maintained for the investigation and/or the corrective action.

These quarterly reports shall be submitted (i.e., postmarked) by January 31, April 30, July 31, and October 31 of each year; and each report shall cover the previous calendar quarter.

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

V. Testing Requirements

1. Compliance with the emission limitations in section A.I of the terms and conditions of this permit shall be determined in accordance with the following methods:
 - 1.a Emission Limitation: Visible PE shall not exceed 20% opacity, as a six-minute average, except as otherwise provided by rule.

Applicable Compliance Method: If required, the method to be employed to demonstrate compliance with the VE limitation shall be OAC rule 3745-17-03(B)(1).

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

V. Testing Requirements (continued)

1.b Emission Limitation: 1.32 lbs PE/hour and 5.8 tons PE/yr

Applicable Compliance Method: The permittee may demonstrate compliance with this emission limitation as follows:

- i. multiply the maximum quantity of glaze employed (87 gallons/hour) by the density of the glaze (14.0 pounds/gallon);
- ii. multiply the value from i by the maximum solids content, by weight, of the glaze (0.65);
- iii. multiply the value from ii by the transfer efficiency of this operation (1-0.86); and
- iv. multiply the value from iii by a control factor of (1-.99)*.

* The estimated control efficiency of the water curtain is 99%.

If required, the methods to be employed to demonstrate compliance with the emission limitation shall be Methods 1 - 5, which are located in 40 CFR, Part 60, Appendix A.

The annual allowable PE limitation was developed by multiplying the hourly limitation by 8760, and then dividing by 2000. Therefore, as long as compliance with the hourly limitation is shown, compliance with the annual limitation shall be assumed.

[OAC rule 3745-77-07(C)(1) and PTI #03-8221]

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
glaze spray booth #2, with baffles and water curtain	none	none

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: Tank Spray Machine (P046)
Activity Description: Formerly part of P004 (Previously Z010)

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
glaze spray booth, with wet scrubber	OAC rule 3745-17-07(A)	Visible particulate emissions (PE) shall not exceed 20% opacity, as a six-minute average, except as otherwise provided by rule. (See A.I.2.b.)
	OAC rule 3745-17-11(B)	5.54 lbs PE/hr (see A.I.2.a)
	OAC rule 3745-17-11(C)	See A.II.1, A.III.7 and A.I.2.c
	40 CFR, Part 64 - Compliance Assurance Monitoring (CAM)	See A.III. and A.IV.

2. Additional Terms and Conditions

- 2.a The requirements to comply with this rule and with section A.V.1.b of this permit shall terminate on the date the U.S. EPA approves the requirements based on OAC rule 3745-17-11(C) as a revision to the Ohio SIP for particulate emissions.
- 2.b The requirements to comply with the visible PE limitation and with section A.V.1.a of this permit shall terminate on the date the U.S. EPA approves the requirements based on OAC rule 3745-17-11(C) as a revision to the Ohio SIP for particulate emissions.

[This emissions unit will be exempt from the visible PE limitations specified in OAC rule 3745-17-07(A), pursuant to OAC rule 3745-17-07(A)(3)(h), because the emissions unit will no longer be subject to any mass emission limitation based on OAC rule 3745-17-11.]

- 2.c On February 1, 2008, OAC rule 3745-17-11 was revised to include paragraph (C) pertaining to requirements for controlling of particulate emissions from surface coating processes. Paragraph (C) of OAC rule 3745-17-11, and Sections A.II.1 and A.III.7 of this permit for this emissions unit, shall be federally enforceable on the date the U.S. EPA approves paragraph (C) of OAC rule 3745-17-11 as a revision to the Ohio State Implementation Plan.

II. Operational Restrictions

1. Any surface coating process not exempt under paragraphs (A)(1)(h) to (A)(1)(l) of OAC rule 3745-17-11 shall be controlled by a dry particulate filter, waterwash, or equivalent control device or devices. The owner or operator shall operate the control devices in accordance with the manufacturer's recommendations, instructions, or operating manuals with any modifications deemed necessary by the owner or operator.

[OAC rule 3745-77-07(A)(1) and OAC rule 3745-17-11(C)]

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall properly install, operate, and maintain equipment to continuously monitor and record the pressure drop, in inches of water, across the scrubber and the scrubber water flow rate, in gallons per minute, during operation of this emissions unit, including periods of startup and shutdown. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop, in inches of water, across the scrubber and the scrubber water flow rate, in gallons per minute, on a daily basis.

Whenever the monitored value for the pressure drop and/or water flow rate deviates from the values specified below, the permittee shall promptly investigate the cause of the deviation. The permittee shall maintain records of the following information for each investigation: the date and time the deviation began and the magnitude of the deviation at that time, the date(s) the investigation was conducted, the names of the personnel who conducted the investigation, and the findings and recommendations.

In response to each required investigation to determine the cause of a deviation, the permittee shall take prompt corrective action to bring the operation of the control equipment within the acceptable values specified below, unless the permittee determines that corrective action is not necessary and documents the reasons for that determination and the date and time the deviation ended. The permittee shall maintain records of the following information for each corrective action taken: a description of the corrective action, the date it was completed, the date and time the deviation ended, the total period of time (in minutes) during which there was a deviation, the pressure drop and/or scrubber water flow rate immediately after the corrective action, and the names of the personnel who performed the work. Investigation and records required by this paragraph does not eliminate the need to comply with the requirements of OAC rule 3745-15-06 if it is determined that a malfunction has occurred.

The pressure drop across the scrubber shall be continuously maintained at a value of not less than 2 inches of water at all times while the emissions unit is in operation.

The scrubber water flow rate shall be continuously maintained at a value of not less than 25 gallons per minute at all times while the emissions unit is in operation.

The values are effective for the duration of this permit, unless revisions are requested by the permittee and approved in writing by the appropriate Ohio EPA District Office or local air agency. The permittee may request revisions to the values based upon information obtained during future particulate emission tests that demonstrate compliance with the allowable particulate emission rate for this emissions unit. In addition, approved revisions to the values will not constitute a relaxation of the monitoring requirements of this permit and may be incorporated into this permit by means of a minor permit modification.

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

2. The CAM plan for this emissions unit has been developed for particulate emissions. The CAM performance indicators for the wet scrubber controlling this emissions unit are the static pressure drop across the scrubber and the scrubber water flow rate, which was established in accordance with the manufacturer's recommendations. When the static pressure drop and/or the water flow rate of the scrubber show operation outside the indicator range(s), the permittee shall take corrective actions to restore operation of the emissions unit and/or its control equipment to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions, and shall comply with the reporting requirements specified in Section A.IV below. The emissions unit and control equipment shall be operated in accordance with the approved CAM Plan, or any approved revision of the Plan. The baghouse shall not be configured to have bypass capability.

[OAC 3745-77-07(A)(3)(a) and (b) and 40 CFR, Part 64]

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

3. At all times, the permittee shall maintain the monitoring, including but not limited to, maintaining necessary parts for routine repairs of the monitoring equipment.

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

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

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

5. In addition to the parametric monitoring required in Section A.III.4 of this permit, the permittee shall conduct visual inspections of the scrubber's spray nozzles every six (6) months. At a minimum, each spray nozzle shall be inspected for the following:

- a. excessive wear, or clogging; and
- b. appropriate directional output to ensure that the spray is covering the entire gas stream.

Records of these inspections shall be kept in accordance with the General Terms and Conditions of this permit.

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

6. The permittee shall maintain a supply of replacement nozzles, or any other parts necessary to ensure that the scrubbing system will operate properly. Any worn, or clogged nozzles shall be replaced, or fixed during the inspection.

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

7. Any surface coating process not exempt under paragraph (A)(1)(h) to (A)(1)(k) of OAC rule 3745-17-11 shall follow all of these work practices:

- a. The owner or operator shall maintain documentation of the manufacturer's recommendations, instructions, or operating manuals for the control devices with any modifications deemed necessary by the owner or operator during the time period in which the control devices are utilized.
- b. The owner or operator shall conduct periodic inspections of the control devices to determine whether the devices are operating in accordance with the manufacturer's recommendations, instructions, or operating manuals with any modifications deemed necessary by the owner or operator. The periodic inspections of each control device shall be performed at a frequency that is based upon the recommendation of the manufacturer of the control device, and the owner or operator shall maintain a copy of the manufacturer's recommended inspection frequency. In addition to these periodic inspections, not less than once each calendar year the owner or operator shall conduct a comprehensive inspection of the control device while the emissions unit is shut down and perform any needed maintenance and repair for the control device to ensure that it is able to routinely operate in accordance with the manufacturer's recommendations.

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

c. The owner or operator shall document each inspection of a control device by maintaining a record that includes the date of the inspection, a description of each problem identified and the date it was corrected, a description of the maintenance and repairs performed, and the name of the person who performed the inspection.

d. In the event that the control devices are not operating in accordance with the manufacturer's recommendations, instructions, or operating manuals with any modifications deemed necessary by the owner or operator, the control devices shall be expeditiously repaired or otherwise returned to operation in accordance with such requirements. The owner or operator shall maintain documentation of those periods when the control devices are not operating in accordance with such requirements.

e. Any documentation required under paragraphs (C)(2)(d) and (C)(2)(e) of OAC rule 3745-17-11 shall be maintained for not less than five years.

f. Any documentation required under paragraphs (C)(2)(a) to (C)(2)(e) of OAC rule 3745-17-11 shall be maintained at the facility and shall be made available to Ohio EPA upon request.

[OAC 3745-77-07(C)(1) and OAC rule 3745-17-11(C)]

IV. Reporting Requirements

1. The permittee shall submit quarterly reports that identify the following information concerning the operation of the control equipment during the operation of this emissions unit:

a. each period of time when the pressure drop across the scrubber field and/or the scrubber water flow rate was outside of the acceptable values;

b. an identification of each incident of deviation described in (a) where a prompt investigation was not conducted;

c. an identification of each incident of deviation described in (a) where prompt corrective action, that would bring the pressure drop and/or water flow rate into compliance with the acceptable value, was determined to be necessary and was not taken; and

d. an identification of each incident of deviation described in (a) where proper records were not maintained for the investigation and/or the corrective action.

These quarterly reports shall be submitted (i.e., postmarked) by January 31, April 30, July 31, and October 31 of each year; and each report shall cover the previous calendar quarter.

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

V. Testing Requirements

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

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

Applicable Compliance Method: If required, the method to be employed to demonstrate compliance with the VE limitation shall be OAC rule 3745-17-03(B)(1).

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

V. Testing Requirements (continued)

1.b Emission Limitation: 5.54 lbs PE/hr

Applicable Compliance Method: The permittee may demonstrate compliance with this emission limitation as follows:

- i. multiply the maximum quantity of glaze employed (530 gallons/hour) by the density of the glaze (14.0 pounds/gallon);
- ii. multiply the value from i by the maximum solids content, by weight, of the glaze (0.65);
- iii. multiply the value from ii by the transfer efficiency of this operation (1-0.9936); and
- iv. multiply the value from iii by a control factor of (1-.98)*.

* The estimated control efficiency of the cyclone is 98%.

If required, the method to be employed to demonstrate compliance with the emission limitation shall be OAC rule 3745-17-03(B)(10).

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

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
glaze spray booth, with wet scrubber	none	none

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 #4 (P047)
Activity Description: Kiln #4 (PTI 03-17194)

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
natural gas fired kiln #20	OAC rule 3745-31-05(A)(3) [PTI #03-17350, issued 10/30/07]	11.81 lbs carbon monoxide (CO)/hr and 51.73 tons CO/year
		Visible particulate emissions shall not exceed 20% opacity, as a six-minute average
		See A.I.2.a.
	ORC 3704.03(T)(4)	See A.I.2.b.
	OAC rule 3745-17-07(A)	See A.I.2.c.
	OAC rule 3745-17-11(B)	See A.I.2.d.
	OAC rule 3745-18-06	See A.I.2.e.
	OAC rule 3745-21-08(B)	See A.I.2.f.

2. Additional Terms and Conditions

- 2.a Best available technology (BAT) control requirements for this emissions unit has been determined to be the firing of only natural gas and compliance with the terms and conditions of this permit.

2. Additional Terms and Conditions (continued)

- 2.b** The Best Available Technology (BAT) requirements under OAC rule 3745-31-05(A)(3) do not apply to the nitrogen oxide (NOx), organic compound (OC) particulate matter less than 10 microns in size (PM10), and sulfur dioxide (SO2) emissions from this air contaminant source since the uncontrolled potential to emit (PTE) for these pollutants is less than ten tons per year.

The PTE for NOx from this emissions unit is 6.92 tons per year, the PTE for OC is 6.75 tons per year, the PTE for PM10 is 7.67 tons per year and the PTE for SO2 is 0.70 ton per year. The PTE for these pollutants is based on the maximum hourly process capacity of 3.58 tons, a maximum operating schedule of 8760 hours per year, a conversion factor of 1 ton per 2000 lbs and the following emission factors:

0.44 lb NOx/ton (based on vendor data)

0.43 lb OC/ton [based on AP-42, Table 11.7-1 (7/96)]

0.49 lb PE/ton* [based on AP-42, Table 11.7-1 (7/96)]

0.045 lb SO2/ton [based on AP-42, Table 11.7-1 (7/96)]

*All PE are assumed to be PM10

- 2.c** This emissions unit is exempt from the visible emission limitations specified in OAC rule 3745-17-07(A) pursuant to OAC rule 3745-17-07(A)(3)(h), because OAC rule 3745-17-11 is not applicable.
- 2.d** The uncontrolled mass rate of particulate emissions from this emissions unit is less than 10 lbs/hr. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(ii), Figure II of OAC rule 3745-17-11 does not apply. Also, Table I does not apply since the facility is located in Ashland county.
- 2.e** 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.f** 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 this Permit to Install.

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.

II. Operational Restrictions

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

[OAC rule 3745-77-07(A)(1) and PTI #03-17350]

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.

[OAC rule 3745-77-01(C)(1) and PTI #03-17350]

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.

[OAC rule 3745-77-01(C)(1) and PTI #03-17350]

V. Testing Requirements

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

- 1.a Emission Limitation: 11.81 lbs CO/hr and 51.73 tons CO/year

Applicable Compliance Method: The hourly and annual emission limitations represent the potential to emit* of the emissions unit. Therefore, no record keeping, deviation reporting, or compliance method calculations are required to demonstrate compliance with this limitations. If required, the permittee shall demonstrate compliance with the hourly limitation by emissions testing conducted in accordance with Methods 1 through 4 and 10 of 40 CFR, Part 60, Appendix A.

*The hourly potential to emit is based on the maximum hourly process capacity of 3.58 tons and an AP-42, Table 11.7-1 (7/98) emission factor of 3.3 lb CO/ton. The annual limitation was developed by multiplying the potential lb/hr emissions by a maximum annual operating schedule of 8760 hrs/yr and dividing by 2000 lbs/ton.

[OAC rule 3745-77-07(C)(1) and PTI #03-17350]

- 1.b Emission Limitation: Visible particulate stack emissions shall not exceed 20% opacity, as a six-minute average

Applicable Compliance Method: If required, compliance shall be determined in accordance with the test method and procedures specified in Method 9 of 40 CFR Part 60, Appendix A.

[OAC rule 3745-77-07(C)(1) and PTI #03-17350]

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
natural gas fired kiln #20	none	none

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: Beckley Shuttle Kilns (Z024)

Activity Description: Beckley Shuttle Kiln (Updated AP-42 factors made the unit Non-Insignificant in 2007)

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
natural gas fired Bickley shuttle kilns	OAC rule 3745-31-05(A)(3) (PTI #03-17397, issued 1/29/08)	1.87 lbs nitrogen oxide (NOx)/hr and 8.20 tons NOx/year 1.57 lbs carbon monoxide (CO)/hr and 6.88 tons CO/year Visible particulate emissions shall not exceed 20% opacity, as a six-minute average.
	OAC rule 3745-17-07(A)	See A.I.2.a.
	OAC rule 3745-17-11(B)	See A.I.2.b.
	OAC rule 3745-18-06	See A.I.2.c.
	OAC rule 3745-21-08(B)	See A.I.2.d.

2. Additional Terms and Conditions

- 2.a** Best available technology (BAT) control requirements for this emissions unit has been determined to be the firing of only natural gas and compliance with the terms and conditions of this permit.

Emissions from particulate matter less than 10 microns in size (PM10), sulfur dioxide (SO2) have been determined to be negligible, therefore, no limits are being established for these pollutants under OAC rule 3745-31-03(A)(3) at this time.
- 2.b** This emissions unit is exempt from the visible emission limitations specified in OAC rule 3745-17-07(A) pursuant to OAC rule 3745-17-07(A)(3)(h), because OAC rule 3745-17-11 is not applicable.
- 2.c** The uncontrolled mass rate of particulate emissions from this emissions unit is less than 10 lbs/hr. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(ii), Figure II of OAC rule 3745-17-11 does not apply. Also, Table I does not apply since the facility is located in Ashland county.
- 2.d** The emission limitation specified by this rule is less stringent than the uncontrolled potential to emit (PTE) for SO2 for this emissions unit. The PTE for SO2 from this emissions unit is 0.05 tons per year and was based on the maximum hourly fuel usage rate of 0.0187 (MMCF), an emission factor from AP-42, Table 1.4-3 & 4 (7/98) of 0.6 lb/10⁶ scf, a maximum operating schedule of 8760 hours per year and a conversion factor of 1 ton per 2000 lbs.

2. Additional Terms and Conditions (continued)

- 2.e** 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 this Permit to Install.

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.

II. Operational Restrictions

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

[OAC rule 3745-77-07(A)(1) and PTI #03-17397]

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.

[OAC rule 3745-77-07(C)(1) and PTI #03-17397]

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.

[OAC rule 3745-77-07(C)(1) and PTI #03-17397]

V. Testing Requirements

1. Compliance with the emission limitations specified in section A.1 of these terms and conditions shall be determined in accordance with the following methods:

- 1.a** Emission Limitation: 1.87 lbs NO_x/hr; 8.20 tons NO_x/yr

Applicable Compliance Method: The hourly and annual emission limitations represent the potential to emit* of the emissions unit. Therefore, no record keeping, deviation reporting, or compliance method calculations are required to demonstrate compliance with this limitations. If required, the permittee shall demonstrate compliance with the hourly limitation by emissions testing conducted in accordance with Methods 1 through 4 and 7 of 40 CFR, Part 60, Appendix A

*The hourly potential to emit is based on the maximum hourly fuel usage rate of 0.0187 (MMCF) and an AP-42, Table 1.4-3 & 4 (7/98) emission factor of 0.6 lb/10⁶ scf. The annual limitation was developed by multiplying the potential lb/hr emissions by a maximum annual operating schedule of 8760 hrs/yr and dividing by 2000 lbs/ton.

[OAC rule 3745-77-07(C)(1) and PTI #03-17397]

V. Testing Requirements (continued)

1.b Emission Limitation: 1.57 lbs CO/hr; 6.88 tons CO/year

Applicable Compliance Method: The hourly and annual emission limitations represent the potential to emit* of the emissions unit. Therefore, no record keeping, deviation reporting, or compliance method calculations are required to demonstrate compliance with this limitations. If required, the permittee shall demonstrate compliance with the hourly limitation by emissions testing conducted in accordance with Methods 1 through 4 and 10 of 40 CFR, Part 60, Appendix A.

*The hourly potential to emit is based on the maximum hourly fuel usage rate of 0.0187 (MMCF) and an AP-42, Table 1.4-3 & 4 (7/98) emission factor of 84 lb/10⁶ scf. The annual limitation was developed by multiplying the potential lb/hr emissions by a maximum annual operating schedule of 8760 hrs/yr and dividing by 2000 lbs/ton.

[OAC rule 3745-77-07(C)(1) and PTI #03-17397]

1.c Emission Limitation: Visible particulate stack emissions shall not exceed 20% opacity, as a six-minute average.

Applicable Compliance Method: If required, compliance shall be determined in accordance with the test methods and procedures specified in Method 9 of 40 CFR Part 60, Appendix A.

[OAC rule 3745-77-07(C)(1) and PTI #03-17397]

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
natural gas fired Bickley shuttle kilns	See A.VI.1.	See A.VI.1.

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

1. Modeling to demonstrate compliance with Ohio EPA's "Air Toxic Policy" was not necessary because the emissions unit's maximum annual emissions for each toxic compound will be less than 1.0 ton. OAC Chapter 3745-31 requires permittees to apply for and obtain a new or modified Permit to Install prior to making a "modification" as defined by OAC rule 3745-31-01. The permittee is hereby advised that changes in the composition of the materials, or use of new materials, that would cause the emissions of any pollutant that has a listed TLV to increase above

VI. Miscellaneous Requirements

None

THIS IS THE LAST PAGE OF THE PERMIT

Statement of Basis For Title V Permit

Part I - General	
Company Name	Mansfield Plumbing Products LLC - China Division
Premise Number	0303000002
What makes this facility a Title V facility?	PE, CO and SO ₂
Has each insignificant emissions unit been reviewed to confirm it meets the definition in OAC rule 3745-77-01 (U)?	YES
Were there any "common control" issues associated with this facility? If yes, provide a summary of those issues and explain how the DAPC decided to resolve them.	NO
Please identify the affected unit(s) and associated PTI, if applicable, along with a brief description of any changes to the permit document that qualify as a minor permit modification per OAC rule 3745-77-08(C)(1)	N/A
Please identify the affected unit(s) and associated PTI, if applicable, along with a brief description of any changes to the permit document that qualify as a significant permit modification per OAC rule 3745-77-08(C)(3)	N/A
Please identify the affected unit(s) and associated PTI, if applicable, along with a brief description of any changes to the permit document that qualify as a reopening per OAC rule 3745-77-08(D)	N/A
Please identify the affected unit(s) and associated PTI, if applicable, along with a brief description of any changes to the permit document resulting from a renewal per OAC rule 3745-77-08(E)	N/A

Part II (State and Federally Enforceable Requirements)			
Term and Condition (paragraph)	Basis		<u>Comments</u>
	SIP (3745-)	Other	
A.1		40 CFR, Part 64	States applicability of CAM rule.
A.2	77-07		Lists insignificant emission units subject to a PTI and/or one or more applicable requirements.

C

Instructions for Part II:

Each paragraph in Part II must be identified and the remainder of the table completed. If the SIP (not including 31-05) is the basis for the term and condition, identify the specific rule. If the SIP is not the basis for the term and condition, place an "N" in the column under "SIP." If the basis for the term and condition is something other than the SIP, including 3745-31-05, NSPS or MACT, a "Y" should be noted in the "Other" column, and if not, an "N" should be noted. Whether the basis for the term and condition is the "SIP" or "Other," an explanation of each term and condition in Part II must be provided in the "Comments" section.

Part III (Requirements Within the State and Federally Enforceable Section)															
Any unusual requirements or aspects of the terms and conditions in Part III that are not self-explanatory should be explained in the appropriate comment field or in a paragraph following the table for Part III.															
EU(s)	Limitation	Basis		ND	OR	M	St	ENF	R	St	Rp	St	ET	Misc	<u>Comments</u>
		SIP (3745-)	Other												
P002, P003, P010, P011, P016, P018, P028, P033, P043, P047, P048	Exempt	17-07(A)	N	Y	N	N	N	N	N	N	N	N	N	N	ND-These emissions units are 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. M, R, Rp & ET-There are no emissions limitations established pursuant to this rule, therefore, no monitoring, recordkeeping, reporting or emissions testing is required.

P004, P041, P042, P045, P046	Visible PE shall not exceed 20% opacity, as a 6-minute, except as otherwise provided by rule.	17-07(A)	N	N	N	Y	N	N	Y	N	Y	N	N	N	ET-The M, R & Rp requirements are sufficient to demonstrate compliance without requiring formal Method 9 readings being conducted.
P002, P003, P010, P011, P016, P018, P028, P033, P043, P047, P048	Exempt	17-11(B)	N	Y	N	N	N	N	N	N	N	N	N	N	ND-The uncontrolled mass rate of particulate emissions from this emissions unit is less than 10 lbs/hr. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(a)(ii), Figure II of OAC rule 3745-17-11 does not apply. Also, Table 1 does not apply because the facility is located in Marion County. M, R, Rp & ET-There are no emissions limitations established pursuant to this rule, therefore, no monitoring, recordkeeping, reporting or emissions testing is required.
P041, P042, P045	None	17-11(B)	N	Y	N	N	N	N	N	N	N	N	N	N	ND-The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3). M, R, Rp & ET-There are no emissions limitations established pursuant to this rule, therefore, no monitoring, recordkeeping, reporting or emissions testing is required.
P004	5.22 lbs PE/hr	17-11(B)	N	N	N	Y	N	N	Y	N	Y	N	N	N	ET-Calculations based on maximum quantity of glaze employed, density of glaze, maximum solids content, a transfer efficiency of 93.2% and a control efficiency of 90% are sufficient to show compliance.
P046	5.54 lbs PE/hr	17-11(B)	N	N	N	Y	N	N	Y	N	Y	N	N	N	ET-Calculations based on maximum quantity of glaze employed, density of glaze, maximum solids content, a transfer efficiency of 99.36% and a control efficiency of 98% are sufficient to show compliance.
P016, P018	Exempt	18-06	N	Y	N	N	N	N	N	N	N	N	N	N	ND-The emissions unit is exempt from the requirements of OAC rule 3745-18-06 in accordance with OAC rule 3745-18-06(A). M, R, Rp & ET-There are no emissions limitations established pursuant to this rule, therefore, no monitoring, recordkeeping, reporting or emissions testing is required.

P028	None	18-06	N	Y	N	N	N	N	N	N	N	N	N	N	N	ND-The emission limitation specified by this rule is less stringent than the uncontrolled potential to emit (PTE) for SO2 for this emissions unit. The PTE for SO2 from this emissions unit is 0.04 tons per year and was based on the maximum hourly fuel usage rate of 0.0098 (MMCF), an emission factor from AP-42, Table 1.4-3 & 4 (7/98) of 0.6 lb/10 ⁶ scf, a maximum operating schedule of 8760 hours per year and a conversion factor of 1 ton per 2000 lbs. M, R, Rp & ET-There are no emissions limitations established pursuant to this rule, therefore, no monitoring, recordkeeping, reporting or emissions testing is required.
P033	None	18-06	N	Y	N	N	N	N	N	N	N	N	N	N	N	ND-The emission limitation specified by this rule is less stringent than the uncontrolled potential to emit (PTE) for SO2 for this emissions unit. The PTE for SO2 from this emissions unit is 0.09 ton per year and was based on the maximum hourly process capacity of 0.50 tons, an emission factor from AP-42, Table 11.7-1 (7/96) of 0.045 lbs SO2/ton, a maximum operating schedule of 8760 hours per year and a conversion factor of 1 ton per 2000 lbs. M, R, Rp & ET-There are no emissions limitations established pursuant to this rule, therefore, no monitoring, recordkeeping, reporting or emissions testing is required.
P047	None	18-06	N	Y	N	N	N	N	N	N	N	N	N	N	N	ND-The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3). M, R, Rp & ET-There are no emissions limitations established pursuant to this rule, therefore, no monitoring, recordkeeping, reporting or emissions testing is required.

P048	None	18-06	N	Y	N	N	N	N	N	N	N	N	N	N	N	ND-The emission limitation specified by this rule is less stringent than the uncontrolled potential to emit (PTE) for SO2 for this emissions unit. The PTE for SO2 from this emissions unit is 0.05 tons per year and was based on the maximum hourly fuel usage rate of 0.0187 (MMCF), an emission factor from AP-42, Table 1.4-3 & 4 (7/98) of 0.6 lb/10 ⁶ scf, a maximum operating schedule of 8760 hours per year and a conversion factor of 1 ton per 2000 lbs. M, R, Rp & ET-There are no emissions limitations established pursuant to this rule, therefore, no monitoring, recordkeeping, reporting or emissions testing is required.
P043	None	18-06(E)	N	Y	N	N	N	N	N	N	N	N	N	N	N	ND-The emission limitation specified by this rule is less stringent than the uncontrolled potential to emit (PTE) for SO2 for this emissions unit. The PTE for SO2 from this emissions unit is 1.10 tons per year and was based on the maximum hourly process capacity of 5.50 tons, an emission factor from AP-42, Table 11.7-1 (7/96) of 0.045 lbs SO2/ton, a maximum operating schedule of 8760 hours per year and a conversion factor of 1 ton per 2000 lbs. M, R, Rp & ET-There are no emissions limitations established pursuant to this rule, therefore, no monitoring, recordkeeping, reporting or emissions testing is required.

P028, P033, P043, P047, P048	None	21-08(B)	N	Y	N	N	N	N	N	N	N	N	N	N	<p>ND-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 this Permit to Install.</p> <p>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.</p> <p>M, R, Rp & ET-There are no emissions limitations established pursuant to this rule, therefore, no monitoring, recordkeeping, reporting or emissions testing is required.</p>
P028	0.98 lb NOx/hr	N	31-05(A)(3)	N	Y	Y	N	N	Y	N	Y	N	N	N	<p>OR- Combust only natural gas. Monitoring includes type of fuel and fuel usage. A CEM is not economically justified. CAM is not currently applicable.</p> <p>ET-Calculations based on maximum hourly natural gas usage and the appropriate emission factor are sufficient to show compliance.</p>
P028	4.29 tons NOx/yr	N	31-05(A)(3)	N	Y	Y	N	N	Y	N	Y	N	N	N	<p>OR- Combust only natural gas. Monitoring includes type of fuel and fuel usage. A CEM is not economically justified. CAM is not currently applicable.</p> <p>ET-Calculations based on maximum hourly potential to emit and actual annual hours of operation are sufficient to show compliance.</p>
P028	0.82 lb Co/hr	N	31-05(A)(3)	N	Y	Y	N	N	Y	N	Y	N	N	N	<p>OR- Combust only natural gas. Monitoring includes type of fuel and fuel usage. A CEM is not economically justified. CAM is not currently applicable.</p> <p>ET-Calculations based on maximum hourly natural gas usage and the appropriate emission factor are sufficient to show compliance.</p>

P028	3.61 tons CO/yr	N	31-05(A)(3)	N	Y	Y	N	N	Y	N	Y	N	N	N	OR- Combust only natural gas. Monitoring includes type of fuel and fuel usage. A CEM is not economically justified. CAM is not currently applicable. ET-Calculations based on maximum hourly potential to emit and actual annual hours of operation are sufficient to show compliance.
P028, P033, P043, P047, P048	Visible PE shall not exceed 20% opacity, as a 6-minute average.	N	31-05(A)(3)	N	Y	Y	N	N	Y	N	Y	N	N	N	OR- Combust only natural gas. Monitoring includes type of fuel and fuel usage. A COM is not economically justified. CAM is not currently applicable. ET-The M, R & Rp requirements are sufficient to demonstrate compliance without requiring formal Method 9 readings being conducted.
P033	1.65 lbs CO/hr	N	31-05(A)(3)	N	Y	Y	N	N	Y	N	Y	N	N	N	OR- Combust only natural gas. Monitoring includes type of fuel and fuel usage. A CEM is not economically justified. CAM is not currently applicable. ET-Calculations based on maximum hourly process weight rate and the appropriate emission factor are sufficient to show compliance.
P033	7.23 tons CO/yr	N	31-05(A)(3)	N	Y	Y	N	N	Y	N	Y	N	N	N	OR- Combust only natural gas. Monitoring includes type of fuel and fuel usage. A CEM is not economically justified. CAM is not currently applicable. ET-Calculations based on maximum hourly potential to emit and actual annual hours of operation are sufficient to show compliance.
P041	0.17 lb PE/hr	N	31-05(A)(3)	N	N	Y	N	N	Y	N	Y	N	N	N	ET-Calculations based on maximum hourly amount of plaster unloaded, the appropriate emission factor and a control efficiency of 99.8% are sufficient to show compliance.
P041	0.74 ton PE/yr	N	31-05(A)(3)	N	N	Y	N	N	Y	N	Y	N	N	N	ET-Calculations based on maximum hourly potential to emit and actual annual hours of operation are sufficient to show compliance.

P042, P045	1.32 lbs PE/hr	N	31-05(A)(3)	N	Y	Y	N	N	Y	N	Y	N	N	N	OR-Use of baffles and water curtain. Monitoring includes records of time when baffles and water curtain are not in use when emission unit is operational. A CEM is not economically justified. CAM is applicable. ET-Calculations based on maximum quantity of glaze employed, density of glaze, maximum solids content, a transfer efficiency of 86% and a control efficiency of 99% are sufficient to show compliance.
P042, P045	5.8 tons PE/yr	N	31-05(A)(3)	N	Y	Y	N	N	Y	N	Y	N	N	N	OR-Use of baffles and water curtain. Monitoring includes records of time when baffles and water curtain are not in use when emission unit is operational. A CEM is not economically justified. CAM is applicable. ET-Calculations based on maximum hourly potential to emit and actual annual hours of operation are sufficient to show compliance.
P043	2.70 lbs PM10/hr	N	31-05(A)(3)	N	Y	Y	N	N	Y	N	Y	N	N	N	OR- Combust only natural gas. Monitoring includes type of fuel and fuel usage. A CEM is not economically justified. CAM is not currently applicable. ET-Calculations based on maximum hourly process weight rate and the appropriate emission factor are sufficient to show compliance.
P043	11.83 tons PM/yr	N	31-05(A)(3)	N	Y	Y	N	N	Y	N	Y	N	N	N	OR- Combust only natural gas. Monitoring includes type of fuel and fuel usage. A CEM is not economically justified. CAM is not currently applicable. ET-Calculations based on maximum hourly potential to emit and actual annual hours of operation are sufficient to show compliance.
P043	2.42 lbs NOx/hr	N	31-05(A)(3)	N	Y	Y	N	N	Y	N	Y	N	N	N	OR- Combust only natural gas. Monitoring includes type of fuel and fuel usage. A CEM is not economically justified. CAM is not currently applicable. ET-Calculations based on maximum hourly process weight rate and the appropriate emission factor are sufficient to show compliance.

P043	10.60 tons NOx/yr	N	31-05(A)(3)	N	Y	Y	N	N	Y	N	Y	N	N	N	OR- Combust only natural gas. Monitoring includes type of fuel and fuel usage. A CEM is not economically justified. CAM is not currently applicable. ET-Calculations based on maximum hourly potential to emit and actual annual hours of operation are sufficient to show compliance.
P043	18.2 lbs CO/hr	N	31-05(A)(3)	N	Y	Y	N	N	Y	N	Y	N	N	N	OR- Combust only natural gas. Monitoring includes type of fuel and fuel usage. A CEM is not economically justified. CAM is not currently applicable. ET-Calculations based on maximum hourly process weight rate and the appropriate emission factor are sufficient to show compliance.
P043	79.72 tons CO/yr	N	31-05(A)(3)	N	Y	Y	N	N	Y	N	Y	N	N	N	OR- Combust only natural gas. Monitoring includes type of fuel and fuel usage. A CEM is not economically justified. CAM is not currently applicable. ET-Calculations based on maximum hourly potential to emit and actual annual hours of operation are sufficient to show compliance.
P043	2.37 lbs OC/hr	N	31-05(A)(3)	N	Y	Y	N	N	Y	N	Y	N	N	N	OR- Combust only natural gas. Monitoring includes type of fuel and fuel usage. A CEM is not economically justified. CAM is not currently applicable. ET-Calculations based on maximum hourly process weight rate and the appropriate emission factor are sufficient to show compliance.
P043	10.38 tons OC/yr	N	31-05(A)(3)	N	Y	Y	N	N	Y	N	Y	N	N	N	OR- Combust only natural gas. Monitoring includes type of fuel and fuel usage. A CEM is not economically justified. CAM is not currently applicable. ET-Calculations based on maximum hourly potential to emit and actual annual hours of operation are sufficient to show compliance.
P047	11.81 lbs CO/hr	N	31-05(A)(3)	N	Y	Y	N	N	Y	N	Y	N	N	N	OR- Combust only natural gas. Monitoring includes type of fuel and fuel usage. A CEM is not economically justified. CAM is not currently applicable. ET-Calculations based on maximum hourly process weight rate and the appropriate emission factor are sufficient to show compliance.

P047	51.73 tons CO/yr	N	31-05(A)(3)	N	Y	Y	N	N	Y	N	Y	N	N	N	OR- Combust only natural gas. Monitoring includes type of fuel and fuel usage. A CEM is not economically justified. CAM is not currently applicable. ET-Calculations based on maximum hourly potential to emit and actual annual hours of operation are sufficient to show compliance.
P047	None	N	Y	Y	N	N	N	N	N	N	N	N	N	N	Other-ORC 3704.03(T)(4) ND-The Best Available Technology (BAT) requirements under OAC rule 3745-31-05(A)(3) do not apply to the nitrogen oxide (NOx), organic compound (OC) particulate matter less than 10 microns in size (PM10), and sulfur dioxide (SO2) emissions from this air contaminant source since the uncontrolled potential to emit (PTE) for these pollutants is less than ten tons per year. The PTE for NOx from this emissions unit is 6.92 tons per year, the PTE for OC is 6.75 tons per year, the PTE for PM10 is 7.67 tons per year and the PTE for SO2 is 0.70 ton per year. The PTE for these pollutants is based on the maximum hourly process capacity of 3.58 tons, a maximum operating schedule of 8760 hours per year, a conversion factor of 1 ton per 2000 lbs and the following emission factors: 0.44 lb NOx/ton (based on vendor data) 0.43 lb OC/ton [based on AP-42, Table 11.7-1 (7/96)] 0.49 lb PE/ton* [based on AP-42, Table 11.7-1 (7/96)] 0.045 lb SO2/ton [based on AP-42, Table 11.7-1 (7/96)] *All PE are assumed to be PM10 M, R, Rp & ET-There are no emissions limitations established pursuant to this rule, therefore, no monitoring, recordkeeping, reporting or emissions testing is required.
P048	1.87 lbs NOx/hr	N	31-05(A)(3)	N	Y	Y	N	N	Y	N	Y	N	N	N	OR-Combust only natural gas. Monitoring includes type of fuel and fuel usage. A CEM is not economically justified. CAM is not currently applicable. ET-Calculations based on maximum hourly natural gas usage and the appropriate emission factor are sufficient to show compliance.

P048	8.20 tons NOx/yr	N	31-05(A)(3)	N	Y	Y	N	N	Y	N	Y	N	N	N	OR-Combust only natural gas. Monitoring includes type of fuel and fuel usage. A CEM is not economically justified. CAM is not currently applicable. ET-Calculations based on maximum hourly potential to emit and actual annual hours of operation are sufficient to show compliance.
P048	1.57 lbs CO/hr	N	31-05(A)(3)	N	Y	Y	N	N	Y	N	Y	N	N	N	OR-Combust only natural gas. Monitoring includes type of fuel and fuel usage. A CEM is not economically justified. CAM is not currently applicable. ET-Calculations based on maximum hourly natural gas usage and the appropriate emission factor are sufficient to show compliance.
P048	6.88 tons CO/yr	N	31-05(A)(3)	N	Y	Y	N	N	Y	N	Y	N	N	N	OR-Combust only natural gas. Monitoring includes type of fuel and fuel usage. A CEM is not economically justified. CAM is not currently applicable. ET-Calculations based on maximum hourly potential to emit and actual annual hours of operation are sufficient to show compliance.

EU = emissions unit ID

ND = negative declaration (i.e., term that indicates that a particular rule(s) is (are) not applicable to a specific emissions unit)

OR = operational restriction

M = monitoring requirements

St = streamlining term used to replace a PTI monitoring, record keeping, or reporting requirement with an equivalent or more stringent requirement

ENF = did noncompliance issues drive the monitoring requirements?

R = record keeping requirements

Rp = reporting requirements

ET = emission testing requirements (not including compliance method terms)

Misc = miscellaneous requirements

C Instructions for Part III:

- C All non-insignificant EUs must be included in this table. For each EU, or group of similar EUs, each emission limitation and control requirement specified in section A.I.1 and A.I.2 of the permit must be identified and the remainder of the table completed.
- C If the SIP (not including OAC rule 3745-31-05) is the basis for the term and condition, identify the specific rule. If the SIP is not the basis for the term and condition, place an "N" in the column under "SIP." If the basis for the term and condition is something other than the SIP, including OAC rule 3745-31-05, NSPS or MACT, a "Y" should be noted in the "Other" column, and if not, an "N" should be noted. If the basis for the term and condition is "Other," an explanation of the basis must be provided in the "Comments" section. If OAC rule 3745-31-05 is cited in the "Other" column, please indicate in the "Comments" section whether or not all of the requirements have been transferred from the permit to install.

- To complete the remainder of the table after “Basis,” except for the “Comments” section, simply specify a “Y” for yes or an “N” for no. For the “M,” “R,” “Rp,” and “ET” columns, if “N” is specified, there should be a brief explanation in the “Comments” section as to why there are no requirements. If a brief explanation is provided in the “Comments” section, please do not simply indicate that monitoring or testing requirements are not necessary. An explanation of why a requirement is not necessary should be specified.

When periodic monitoring requirements are established to satisfy the provisions of OAC rule 3745-77-07(A)(3)(a)(ii), the basis for the requirements must be explained. Whenever Engineering Guides have been used to establish the periodic monitoring requirements, the applicable Engineering Guide may be referenced in the “Comments” section. An example that should be clarified would be the situation where it has been determined that control equipment parametric monitoring will be used to evaluate ongoing compliance in lieu of performing frequent emission tests. In this situation, Engineering Guide #65 would be referenced along with the fact that the parametric monitoring range (or minimum value) corresponded to the range (or minimum value) documented during the most recent emission tests that demonstrated that the emissions unit was in compliance. If streamlining language is included in the “Monitoring,” “Record Keeping,” or “Reporting” requirements sections of the permit, explain which requirements are being streamlined (mark appropriate column above) and provide a brief explanation of why the streamlined term is equal to or more stringent than the “Monitoring,” “Record Keeping,” or “Reporting” requirements specified in the permit to install. If Engineering Guide #16 was used as the basis for establishing an emission test frequency, a simple note referencing the Engineering Guide in the “Comments” section would be sufficient.

Also, if a “Y” is noted under “OR,” “Misc,” “St,” “ND,” or “ENF” an explanation of the requirements must be provided in the “Comments” section. In addition to a general explanation of the “OR,” “Misc,” “St,” “ND,” and/or “ENF” the following must be provided:

1. For an operational restriction, clarify if appropriate monitoring, record keeping, and reporting requirements have been specified for the operational restriction and indicate whether or not CAM is currently applicable.
2. If a control plan and schedule is included in the “Miscellaneous Requirements” section of the permit, provide an explanation in the “Comments” section of the violation, basis for the violation, and the company’s proposed control plan and schedule.
3. If the “ND” column above is marked, please identify the particular rule(s) that is (are) not applicable to the specified emissions unit.
2. If the “ENF” column above is marked, please provide a brief explanation of the noncompliance issue(s) which prompted the use of the specified monitoring requirement.

An explanation is not required if an “N” is noted in the “OR,” “Misc,” “St,” “ND,” or “ENF” columns.

C Additional information for modifications - Several types of modifications, as defined by rule, may be processed concurrently. Please provide enough of a description for someone wishing to review the changes to the permit language to be able to identify where the change is made in the permit document. This brief description should be identified in the appropriate row in the first table of this form by replacing the “N/A” in the applicable row(s). Please also indicate if the modification is being initiated by an appeal by including the ERAC case number in the “Comments” area. Please update the term-specific text in the SOB as warranted (full insertion or replacement is acceptable; bold italic and strike out is not needed). Note all modification/reopening rows should remain “N/A” when developing the SOB during the initial permit development. Note: APA’s and Off-permit changes do not need to be noted in the SOB.