



State of Ohio Environmental Protection Agency

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11/13/2008

Mike Krzyzanowski
Glen-Gery Corp. Iberia Plant
Glen-Gery Corporation - Technical Services
433 S. Pottsville Pike
Shoemakersville, PA 19555

Certified Mail
Facility ID: 0351000051
Permit Number: P0087298
County: Marion

RE: FINAL AIR POLLUTION CONTROL TITLE V PERMIT
Permit Type: Renewal

Dear Permit Holder:

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

The issuance of this Title V permit is a final action of the Director and may be appealed to the Environmental Review Appeals Commission ("ERAC") under Section 3745.04 of the Ohio Revised Code. The appeal must be in writing and describe the action complained of and the grounds for the appeal. The appeal must be filed with the ERAC within thirty (30) days after notice of the Director's action. A filing fee of \$70.00 must be submitted to the ERAC with the appeal, although the ERAC, has discretion to reduce the amount of the filing fee if you can demonstrate (by affidavit) that payment of the full amount of the fee would cause extreme hardship. If you file an appeal of this action, you must notify Ohio EPA of the filing of the appeal (by providing a copy to the Director) within three (3) days of filing your appeal with the ERAC. Ohio EPA requests that a copy of the appeal also be provided to the Ohio Attorney General's Office, Environmental Enforcement Section. An appeal may be filed with the ERAC at the following address:

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

The Ohio EPA is encouraging companies to investigate pollution prevention and energy conservation. Not only will this reduce pollution and energy consumption, but it can also save you money. If you would like to learn ways you can save money while protecting the environment, please contact our Office of Compliance Assistance and Pollution Prevention at (614) 644-3469. If you have any questions regarding this permit, please contact the Ohio EPA DAPC, Northwest District Office. This permit has been posted to the Division of Air Pollution Control (DAPC) Web page <http://www.epa.state.oh.us/dapc>.

Sincerely,


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

Cc: U.S. EPA Region 5 *Via E-Mail Notification*
Ohio EPA DAPC, Northwest District Office

Ted Strickland, Governor
Lee Fisher, Lieutenant Governor
Chris Korleski, Director



**State of Ohio Environmental Protection Agency
Division of Air Pollution Control**

FINAL

**Title V Permit to Control Air Pollution
OAC Chapter 3745-77**

Glen-Gery Corp. Iberia Plant

Facility ID: 0351000051
Permit Number: P0087298
Permit Type: Renewal
Issued: 11/13/2008
Effective: 12/4/2008
Expiration: 12/4/2013



State of Ohio Environmental Protection Agency
 Division of Air Pollution Control

Title V Permit to Control Air Pollution
OAC Chapter 3745-77
 Glen-Gery Corp. Iberia Plant

Table of Contents

Authorization..... 1

A. Standard Terms and Conditions 2

 1. Federally Enforceable Standard Terms and Conditions 3

 2. Monitoring and Related Record Keeping and Reporting Requirements 3

 3. Scheduled Maintenance 6

 4. Risk Management Plans 6

 5. Title IV Provisions 6

 6. Severability Clause 7

 7. General Requirements 7

 8. Fees 8

 9. Marketable Permit Programs 8

 10. Reasonably Anticipated Operating Scenarios 8

 11. Reopening for Cause 8

 12. Federal and State Enforceability 9

 13. Compliance Requirements 9

 14. Permit Shield 10

 15. Operational Flexibility 10

 16. Emergencies 11

 17. Off-Permit Changes 11

 18. Compliance Method Requirements 12

 19. Insignificant Activities or Emissions Levels 12

 20. Permit to Install Requirement 12

 21. Air Pollution Nuisance 12

 22. Permanent Shutdown of an Emissions Unit 12

 23. Title VI Provisions 13

 24. Reporting Requirements Related to Monitoring and Record Keeping Requirements Under State Law Only 13

 25. Records Retention Requirements Under State Law Only 13

 26. Inspections and Information Requests 13

 27. Scheduled Maintenance/Malfunction Reporting 14

 28. Permit Transfers 14



State of Ohio Environmental Protection Agency
Division of Air Pollution Control

29. Additional Reporting Requirements When There Are No Deviations of Federally Enforceable Emission Limitations, Operational Restrictions, or Control Device Operating Parameter Limitations	14
B. Facility-Wide Terms and Conditions	15
C. Emissions Unit Terms and Conditions	17
1. F001, Plant Storage Piles	18
2. F002, Roadway and Parking Areas	22
3. F003, Caledonia Crusher	26
4. P001, Periodic Dryer #1	28
5. P002, Periodic Dryer #2	31
6. P003, Periodic Dryer #3	34
7. P004, Periodic Dryer #4	37
8. P005, Periodic Dryer #5	40
9. P006, Periodic Dryer #6	43
10. P007, Periodic Dryer #7	46
11. P008, Tunnel Kiln	49
12. P011, Shapes Kiln	58
13. P901, Raw Material Processing	63
14. P902, Sand Storage Bins	68
15. P903, Mold Line Sand System	71
16. P904, Extrusion Line Sand System	74
17. P905, Setting Machine	77
18. P906, Mixing and Blending	80
19. P907, Sand Mixer #1	83
20. P908, Sand Mixer #2	86



State of Ohio Environmental Protection Agency
Division of Air Pollution Control

Final Title V Permit
Permit Number: P0087298
Facility ID: 0351000051
Effective Date: 12/4/2008

Authorization

Facility ID: 0351000051
Facility Description: Brick and Structural Clay Tile
Application Number(s): A0018240, A0018241, A0018242
Permit Number: P0087298
Permit Description: Renewal Application
Permit Type: Renewal
Issue Date: 11/13/2008
Effective Date: 12/4/2008
Expiration Date: 12/4/2013
Superseded Permit Number:

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

Glen-Gery Corp. Iberia Plant
Glen-Gery Corporation - Iberia
P.O. Box 207 - County Road 9
Iberia, OH 43325

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

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

The above named entity is hereby granted a Title V permit pursuant to Chapter 3745-77 of the Ohio Administrative Code. This permit and the authorization to operate the air contaminant sources (emissions units) at this facility shall expire at midnight on the expiration date shown above. You will be sent a notice approximately 18 months prior to the expiration date regarding the renewal of this permit. If you do not receive a notice, please contact the Ohio EPA DAPC, Northwest District Office. If a renewal permit is not issued prior to the expiration date, the permittee may continue to operate pursuant to OAC rule 3745-77-08(E) and in accordance with the terms of this permit beyond the expiration date, if a timely renewal application is submitted. A renewal application will be considered timely if it is submitted no earlier than 18 months (540 days) and no later than 6 months (180 days) prior to the expiration date.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

Chris Korleski
Director



State of Ohio Environmental Protection Agency
Division of Air Pollution Control

Final Title V Permit
Permit Number: P0087298
Facility ID: 0351000051
Effective Date: 12/4/2008

A. Standard Terms and Conditions



1. Federally Enforceable Standard Terms and Conditions

- a) All Standard Terms and Conditions are federally enforceable, with the exception of those listed below which are enforceable under State law only:
 - (1) Standard Term and Condition A. 24., Reporting Requirements Related to Monitoring and Record Keeping Requirements of State-Only Enforceable Permit Terms and Conditions
 - (2) Standard Term and Condition A. 25., Records Retention Requirements for State-Only Enforceable Permit Terms and Conditions
 - (3) Standard Term and Condition A. 27., Scheduled Maintenance/Malfunction Reporting
 - (4) Standard Term and Condition A. 29., Additional Reporting Requirements When There Are No Deviations of Federally Enforceable Emission Limitations, Operational Restrictions, or Control Device Operating Parameter Limitations
(Authority for term: ORC 3704.036(A))

2. Monitoring and Related Record Keeping and Reporting Requirements

- a) Except as may otherwise be provided in the terms and conditions for a specific emissions unit (i.e., in section C. Emissions Unit Terms and Conditions of this Title V permit), the permittee shall maintain records that include the following, where applicable, for any required monitoring under this permit:
 - (1) The date, place (as defined in the permit), and time of sampling or measurements.
 - (2) The date(s) analyses were performed.
 - (3) The company or entity that performed the analyses.
 - (4) The analytical techniques or methods used.
 - (5) The results of such analyses.
 - (6) The operating conditions existing at the time of sampling or measurement.
(Authority for term: OAC rule 3745-77-07(A)(3)(b)(i))
- b) Each record of any monitoring data, testing data, and support information required pursuant to this permit shall be retained for a period of five years from the date the record was created. Support information shall include all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. Such records may be maintained in computerized form.
(Authority for term: OAC rule 3745-77-07(A)(3)(b)(ii))
- c) The permittee shall submit required reports in the following manner:
 - (1) All reporting required in accordance with OAC rule 3745-77-07(A)(3)(c) for deviations caused by malfunctions shall be submitted in the following manner:



Any malfunction, as defined in OAC rule 3745-15-06(B)(1), shall be promptly reported to the Ohio EPA in accordance with OAC rule 3745-15-06. In addition, to fulfill the OAC rule 3745-77-07(A)(3)(c) deviation reporting requirements for malfunctions, written reports that identify each malfunction that occurred during each calendar quarter (including each malfunction reported only verbally in accordance with OAC rule 3745-15-06) shall be submitted (i.e., postmarked) by January 31, April 30, July 31, and October 31 of each year in accordance with Standard Term and Condition A.2.c)(2) below; and each report shall cover the previous calendar quarter. An exceedance of the visible emission limitations specified in OAC rule 3745-17-07(A)(1) that is caused by a malfunction is not a violation and does not need to be reported as a deviation if the owner or operator of the affected air contaminant source or air pollution control equipment complies with the requirements of OAC rule 3745-17-07(A)(3)(c).

In accordance with OAC rule 3745-15-06, a malfunction reportable under OAC rule 3745-15-06(B) 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))

- (2) Except as may otherwise be provided in the terms and conditions for a specific emissions unit (i.e., in section C. Emissions Unit Terms and Conditions of this Title V permit or, in some cases, in section B. Facility-Wide Terms and Conditions of this Title V permit), all reporting required in accordance with OAC rule 3745-77-07(A)(3)(c) for deviations of the emission limitations, operational restrictions, and control device operating parameter limitations shall be submitted in the following manner:

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

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



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

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

See A.29 below if no deviations occurred during the quarter.
(*Authority for term: OAC rule 3745-77-07(A)(3)(c)*)

- (3) All reporting required in accordance with the OAC rule 3745-77-07(A)(3)(c) for other deviations of the federally enforceable permit requirements which are not reported in accordance with Standard Term and Condition A.2)c)(2) above shall be submitted in the following manner:

Unless otherwise specified by rule, written reports that identify deviations of the following federally enforceable requirements contained in this permit; Standard Terms and Conditions: A.3, A.4, A.5, A.7.e), A.8, A.13, A.15, A.19, A.20, A.21, and A.23 of this Title V permit, as well as any deviations from the requirements in section C. Emissions Unit Terms and Conditions of this Title V permit, and any monitoring, record keeping, and reporting requirements, which are not reported in accordance with Standard Term and Condition A.2.c)(2) above shall be submitted (i.e., postmarked) to the appropriate Ohio EPA District Office or local air agency by January 31 and July 31 of each year; and each report shall cover the previous six calendar months. Unless otherwise specified by rule, all other deviations from federally enforceable requirements identified in this permit shall be submitted annually as part of the annual compliance certification, including deviations of federally enforceable requirements not specifically addressed by permit or rule for the insignificant activities or emissions levels (IEU) identified in section B. Facility-Wide Terms and Conditions of this Title V permit. Annual reporting of deviations is deemed adequate to meet the deviation reporting requirements for IEUs unless otherwise specified by permit or rule.

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

These semi-annual and annual written reports shall satisfy the reporting requirements of OAC rule 3745-77-07(A)(3)(c) for any deviations from the federally enforceable requirements contained in this permit that are not reported in accordance with Standard Term and Condition A.2.c)(2) above.



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

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

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

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

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

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

3. Scheduled Maintenance

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. Except as provided in OAC rule 3745-15-06(A)(3), any scheduled maintenance necessitating the shutdown or bypassing of any air pollution control system(s) shall be accompanied by the shutdown of the emissions unit(s) that is (are) served by such control system(s). Any scheduled maintenance, as defined in OAC rule 3745-15-06(A)(1), that results in a deviation from a federally enforceable emission limitation (or control requirement) shall be reported in the same manner as described for malfunctions in Standard Term and Condition A.2.c)(1) above.

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

4. Risk Management Plans

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

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

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

5. Title IV Provisions

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

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



6. Severability Clause

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

7. General Requirements

- a) The permittee must comply with all terms and conditions of this permit. Any noncompliance with the federally enforceable terms and conditions of this permit constitutes a violation of the Act, and is grounds for enforcement action or for permit revocation, revocation and reissuance, or modification, or for denial of a permit renewal application.
- b) It shall not be a defense for the permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the federally enforceable terms and conditions of this permit.
- c) This permit may be modified, reopened, revoked, or revoked and reissued, for cause, in accordance with Standard Term and Condition A.11 below. The filing of a request by the permittee for a permit modification, revocation and reissuance, or revocation, or of a notification of planned changes or anticipated noncompliance does not stay any term and condition of this permit.
- d) This permit does not convey any property rights of any sort, or any exclusive privilege.
- e) The permittee shall furnish to the Director of the Ohio EPA, or an authorized representative of the Director, upon receipt of a written request and within a reasonable time, any information that may be requested to determine whether cause exists for modifying, reopening or revoking this permit or to determine compliance with this permit. Upon request, the permittee shall also furnish to the Director or an authorized representative of the Director, copies of records required to be kept by this permit. For information claimed to be confidential in the submittal to the Director, if the Administrator of the U.S. EPA requests such information, the permittee may furnish such records directly to the Administrator along with a claim of confidentiality.
- f) Except as otherwise indicated below, this Title V permit, or permit modification, is effective for five years from the original effective date specified in the permit. In the event that this facility becomes eligible for non-title V permits, this permit shall cease to be enforceable when:
 - (1) the permittee submits an approved facility-wide potential to emit analysis supporting a claim that the facility no longer meets the definition of a "major source" as defined in OAC rule 3745-77-01(W) based on the permanent shutdown and removal of one or more emissions units identified in this permit; or
 - (2) the permittee no longer meets the definition of a "major source" as defined in OAC rule 3745-77-01(W) based on obtaining restrictions on the facility-wide potential(s) to emit that are federally enforceable or legally and practically enforceable ; or
 - (3) a combination of (1) and (2) above.

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



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

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

8. Fees

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

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

9. Marketable Permit Programs

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

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

10. Reasonably Anticipated Operating Scenarios

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

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

11. Reopening for Cause

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

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



- d) The Administrator of the U.S. EPA or the Director of the Ohio EPA determines that this permit must be revised or revoked to assure compliance with the applicable requirements.
(Authority for term: OAC rules 3745-77-07(A)(12) and 3745-77-08(D))

12. Federal and State Enforceability

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

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

13. Compliance Requirements

- a) Any document (including reports) required to be submitted and required by a federally applicable requirement in this Title V permit shall include a certification by a responsible official that, based on information and belief formed after reasonable inquiry, the statements in the document are true, accurate, and complete.
- b) Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the Director of the Ohio EPA or an authorized representative of the Director to:
- (1) At reasonable times, enter upon the permittee's premises where a source is located or the emissions-related activity is conducted, or where records must be kept under the conditions of this permit.
 - (2) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit, subject to the protection from disclosure to the public of confidential information consistent with paragraph (E) of OAC rule 3745-77-03.
 - (3) Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit.
 - (4) As authorized by the Act, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit and applicable requirements.
- c) The permittee shall submit progress reports to the appropriate Ohio EPA District Office or local air agency concerning any schedule of compliance for meeting an applicable requirement. Progress reports shall be submitted semiannually or more frequently if specified in the applicable requirement or by the Director of the Ohio EPA. Progress reports shall contain the following:
- (1) Dates for achieving the activities, milestones, or compliance required in any schedule of compliance, and dates when such activities, milestones, or compliance were achieved.
 - (2) An explanation of why any dates in any schedule of compliance were not or will not be met, and any preventive or corrective measures adopted.
- d) Compliance certifications concerning the terms and conditions contained in this permit that are federally enforceable emission limitations, standards, or work practices, shall be submitted to the



Director (the appropriate Ohio EPA District Office or local air agency) and the Administrator of the U.S. EPA in the following manner and with the following content:

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

(3) Compliance certifications shall contain such additional requirements as may be specified pursuant to sections 114(a)(3) and 504(b) of the Act.

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

14. Permit Shield

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

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

15. Operational Flexibility

The permittee is authorized to make the changes identified in OAC rule 3745-77-07(H)(1)(a) to (H)(1)(c) within the permitted stationary source without obtaining a permit revision, if such change is not a modification under any provision of Title I of the Act [as defined in OAC rule 3745-77-01(JJ)], and does not result in an exceedance of the emissions allowed under this permit (whether expressed therein as a rate of emissions or in terms of total emissions), and the permittee provides the Administrator of the U.S. EPA and the appropriate Ohio EPA District Office or local air agency with written notification within a minimum of seven days in advance of the proposed changes, unless the change is associated with, or in response to, emergency conditions. If less than seven days notice is provided because of a need to respond more quickly to such emergency conditions, the permittee shall provide notice to the Administrator of the U.S. EPA and the appropriate District Office of the Ohio EPA or local air agency as



soon as possible after learning of the need to make the change. The notification shall contain the items required under OAC rule 3745-77-07(H)(2)(d).

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

16. Emergencies

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

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

17. Off-Permit Changes

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

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

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

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



18. Compliance Method Requirements

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

(This term is provided for informational purposes only.)

19. Insignificant Activities or Emissions Levels

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

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

20. Permit to Install Requirement

Prior to the "installation" or "modification" of any "air contaminant source," as those terms are defined in OAC rule 3745-31-01, a permit to install must be obtained from the Ohio EPA pursuant to OAC Chapter 3745-31.

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

21. Air Pollution Nuisance

The air contaminants emitted by the emissions units covered by this permit shall not cause a public nuisance, in violation of OAC rule 3745-15-07.

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

22. Permanent Shutdown of an Emissions Unit

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

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

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

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



23. Title VI Provisions

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

- a) Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices specified in 40 CFR 82.156.
- b) Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment specified in 40 CFR 82.158.
- c) Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161.
(Authority for term: OAC rule 3745-77-01(H)(11))

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

The permittee shall submit required reports in the following manner:

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

25. Records Retention Requirements Under State Law Only

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

26. Inspections and Information Requests

The Director of the Ohio EPA, or an authorized representative of the Director, may, subject to the safety requirements of the permittee and without undue delay, enter upon the premises of this source at any reasonable time for purposes of making inspections, conducting tests, examining records or reports



pertaining to any emission of air contaminants, and determining compliance with any applicable State air pollution laws and regulations and the terms and conditions of this permit. The permittee shall furnish to the Director of the Ohio EPA, or an authorized representative of the Director, upon receipt of a written request and within a reasonable time, any information that may be requested to determine whether cause exists for modifying, reopening or revoking this permit or to determine compliance with this permit. Upon verbal or written request, the permittee shall also furnish to the Director of the Ohio EPA, or an authorized representative of the Director, copies of records required to be kept by this permit.

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

27. Scheduled Maintenance/Malfunction Reporting

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

28. Permit Transfers

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

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

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

If no emission limitation (or control requirement), operational restriction and/or control device parameter limitation deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted (i.e., postmarked) by January 31, April 30, July 31, and October 31 of each year; and each report shall cover the previous calendar quarter.

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

- a) where an emissions unit has deviation reporting requirements for a specific emission limitation, operational restriction, or control device parameter limitation that override the deviation reporting requirements specified in Standard Term and Condition A.2.c)(2); or
- b) where an uncontrolled emissions unit has no monitoring, record keeping, or reporting requirements and the emissions unit's applicable emission limitations are established at the potentials to emit; or
- c) where the company's responsible official has certified that an emissions unit has been permanently shut down.



State of Ohio Environmental Protection Agency
Division of Air Pollution Control

Final Title V Permit
Permit Number: P0087298
Facility ID: 0351000051
Effective Date: 12/4/2008

B. Facility-Wide Terms and Conditions



1. All the following facility-wide terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only:
 - a) 3.
2. The following insignificant emissions units at this facility must comply with all applicable State and federal regulations, as well as any emission limitations and/or control requirements contained within the identified permit to install for the emissions unit. The insignificant emissions units listed below are subject to one or more applicable requirement contained in a permit-to-install or in the SIP-approved versions of OAC Chapters 3745-17, 3745-18 and 3745-21.
 - a) Z020 - 896 Hp emergency electrical diesel generator.
3. The following insignificant emissions units 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:
 - a) Z016 - 1000 gallon Caledonia diesel storage tank;
 - b) Z017 - 1000 gallon diesel storage tank;
 - c) Z018 - 7650 gallon lignosulfonate storage tank;
 - d) Z021 - 300 gallon diesel fuel storage tank;
 - e) Z022 - 500 gallon diesel fuel storage tank;
 - f) Z024 - 300 gallon gasoline storage tank; and
 - g) Z025 - pneumatic sand transport system.
4. Pursuant to 40 CFR Part 64, the permittee has submitted, and the Ohio EPA has approved a compliance assurance monitoring plan for emissions units P008 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]



State of Ohio Environmental Protection Agency
Division of Air Pollution Control

Final Title V Permit
Permit Number: P0087298
Facility ID: 0351000051
Effective Date: 12/4/2008

C. Emissions Unit Terms and Conditions



1. F001, Plant Storage Piles

Operations, Property and/or Equipment Description:

Raw material storage piles (Clay and Shale)

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

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05 (PTI #03-13047, issued 5/8/00)	10.41 tons fugitive particulate emissions (PE)/year no visible emissions of fugitive PE from any material storage pile, except for a period of time not to exceed 13 minutes during any 60-minute observation period best available technology that is sufficient to minimize or eliminate visible emissions of fugitive dust [See b)(2)a. through b)(2)e.]
b.	OAC rule 3745-17-07(B)	none [See b)(2)f.]
c.	OAC rule 3745-17-08(B)	none [See b)(2)g.]

(2) Additional Terms and Conditions

a. The storage piles that are covered by this permit and subject to the requirements of OAC rule 3745-31-05 are listed below:

all raw material storage piles

b. The permittee shall employ best available technology on all load-in and load-out operations associated with the storage piles for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to maintain minimal drop height to ensure compliance. Nothing in this paragraph shall



prohibit the permittee from employing other control measures to ensure compliance.

- c. The above-mentioned best available technology shall be employed for each load-in and load-out operation of each storage pile if the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the control measure(s) are necessary to ensure compliance with the above-mentioned applicable requirements. Any required implementation of the control measure(s) shall continue during any such operation until further observation confirms that use of the measure(s) is unnecessary.
- d. The permittee shall employ best available technology for wind erosion from the surfaces of all storage piles for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has determined that there is sufficient inherent moisture to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- e. Implementation of the above-mentioned best available in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the requirements of OAC rule 3745-31-05.
- f. This emissions unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(B), pursuant to OAC rule 3745-17-07(B)(11)(e).
- g. This facility is not located within an "Appendix A" area as identified in OAC rule 3745-17-08. Therefore, pursuant to OAC rule 3745-17-08(A), this emissions unit is exempt from the requirements of OAC rule 3745-17-08(B).

c) Operational Restrictions

- (1) None.

d) Monitoring and/or Recordkeeping Requirements

- (1) The following Monitoring and/or Record keeping Requirements shall apply to this emissions unit:
 - a. Except as otherwise provided in this section, the permittee shall perform inspections of each load-in operation at each storage pile in accordance with the following frequencies:
 - storage pile identification: All
 - minimum load-in inspection frequency: Weekly
 - b. Except as otherwise provided in this section, the permittee shall perform inspections of each load-out operation at each storage pile in accordance with the following frequencies:
 - storage pile identification: All



minimum load-out inspection frequency: Weekly

- c. The purpose of the inspections is to determine the need for implementing the control measures specified in this permit, and/or any other necessary control measures, for load-in and load-out of a storage pile, and wind erosion from the surface of a storage pile. The inspections shall be performed during representative, normal storage pile operating conditions.
- d. The permittee may, upon receipt of written approval from the appropriate Ohio EPA District Office or local air agency, modify the above-mentioned inspection frequencies if operating experience indicates that less frequent inspections would be sufficient to ensure compliance with the above-mentioned applicable requirements.
- e. The permittee shall maintain records of the following information:
 - i. the date and reason any required inspection was not performed, including those inspections that were not performed due to snow and/or ice cover or precipitation;
 - ii. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measures;
 - iii. the dates the control measures were implemented; and
 - iv. on a calendar quarter basis, the total number of days the control measures were implemented and, for wind erosion from pile surfaces, the total number of days where snow and/or ice cover or precipitation were sufficient to not require the control measure(s).

The information required in d)(1)e.iv. shall be kept separately for (a) the load-in operations, (b) the load-out operations, and (c) the pile surfaces (wind erosion) and shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

[OAC rule 3745-77-07(C)(1) and PTI #03-13047]

e) Reporting Requirements

- (1) The permittee shall submit quarterly deviation reports that identify any of the following occurrences for this emissions unit:
 - a. each day during which an inspection was not performed by the required frequency, excluding an inspection which was not performed due to an exemption for snow and/ or ice cover or precipitation; and
 - b. each instance when a control measure, that was to be implemented as a result of an inspection, was not implemented.

[OAC rule 3745-77-07(C)(1) and PTI #03-13047]

- (2) These reports are due by the date described in the Standard Terms and Conditions of this permit.



[OAC rule 3745-77-07(C)(1) and PTI #03-13047]

f) Testing Requirements

(1) Compliance with the emission limitations in Section b)(1) of these terms and conditions shall be determined in accordance with the following methods:

a. Emission Limitation: 10.40 tons fugitive PE/year

Applicable Compliance Method: Compliance shall be determined according to the following equation [State of Iowa Procedure (Form 2.8)]:

$$\text{annual emissions (tons)} = \text{maximum annual throughput (tons/year)} \times \text{PE}/2000$$

Where:

$$\text{PE (emission factor, in lb/ton)} = \text{PM}_{10} \times 2 = 0.1721 \text{ lb PE/ton}$$

$$\text{PM}_{10} \text{ (lb PM}_{10}\text{/ton)} = \text{LI/LO} + \text{WE} + \text{A} = 0.086 \text{ lb PM}_{10}\text{/ton}$$

$$\text{LI/LO} = 0.00224 \times [(\text{mean wind speed})/d]^{51.3} / [(\% \text{ moisture})/2]^{1.4}$$

$$\text{WE} = 0.025 \times [(\% \text{ silt}) / 1.5] \times [(\text{storage days} / 90) \times [(\text{dry days} / 235) \times [(\% \text{ windy days} / 15)]]]$$

$$\text{A} = .05 \times [(\% \text{ silt}) / 1.5] \times [(\text{dry days} / 235) \times (\text{vehicle activity factor})]$$

$$\text{mean wind speed} = 10 \text{ miles/hour}$$

$$\% \text{ wind} > 12 = 32$$

$$\% \text{ moisture} = 6.5\%$$

$$\text{storage days} = 365$$

$$\% \text{ silt} = 0.5\%$$

$$\text{dry days} = 225$$

$$\text{vehicle activity factor} = 1.0$$

Note: assume 30% control efficiency for inherent moisture and precautions.

b. Emission Limitation: no visible fugitive emissions from any raw material storage pile except for a period of time not to exceed 13 minutes during any 60-minute observation period.

Applicable Compliance Method: If required, the permittee shall demonstrate compliance in accordance with Method 22 of 40 CFR, Part 60, Appendix A.

g) Miscellaneous Requirements

(1) None.



2. F002, Roadway and Parking Areas

Operations, Property and/or Equipment Description:

Plant Roads and Parking lots (excluding quarry roadways)

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

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05 (PTI # 03-13047, issued 5/8/00)	58.73 tons fugitive particulate emissions (PE)/year See b)(2)a. best available technology that is sufficient to minimize or eliminate visible emissions of fugitive dust [See b)(2)b.]
b.	OAC rule 3745-17-07(B)	none [See b)(2)c.]
c.	OAC rule 3745-17-08(B)	none [See b)(2)d.]

(2) Additional Terms and Conditions

a. The following opacity restrictions shall apply to this emissions unit:

i. There shall be no visible fugitive PE from any paved roadways or parking areas except for a period of time not to exceed 1 minute during any 60-minute observation period.

ii. There shall be no visible fugitive PE from any unpaved roadways or parking areas except for a period of time not to exceed 3 minutes during any 60-minute observation period.

b. The permittee shall employ the following control measures for the roadways and parking areas to comply with the mass emission limitations and opacity restrictions established by this permit:

i. For paved roadways and parking areas:



- (a) The permittee shall sweep the paved roadways and parking areas to minimize or eliminate, at all times, visible emissions of fugitive dust generated by vehicular traffic. The following equipment shall be used to sweep the roadways and parking areas: sweeper. The paved surfaces shall be swept as needed to minimize visible emissions. The permittee shall not be required to sweep during wet conditions when there is sufficient moisture to prevent visible emissions of fugitive dust.
- (b) Any material carried off of the permittee's property and deposited onto public streets by vehicular traffic or by erosion by water, etc., shall be promptly removed and disposed of properly to minimize or prevent resuspension.
- ii. For unpaved roadways and parking areas:
 - (a) The permittee shall apply dust suppressants to the unpaved roadways and parking areas to minimize or eliminate, at all times, visible emissions of fugitive dust generated by vehicular traffic. Watering shall be used as the dust suppressant, and the following equipment shall be used for the periodic applications: truck and/or hose/sprinkler system. The dust suppressant shall be applied to the unpaved surfaces as needed to minimize visible emissions. This term and condition shall be waived during wet conditions when there is sufficient moisture to prevent visible emissions of fugitive dust.
 - (b) Any material carried off of the permittee's property and deposited onto public streets by vehicular traffic or by erosion by water, etc., shall be promptly removed and disposed of properly to minimize or prevent resuspension.
- c. This emissions unit is exempt from the visible emission limitations specified in OAC rule 3745-17-07(B), pursuant to OAC rule 3745-17-07(B)(11)(e).
- d. This facility is not located within an "Appendix A" area as identified in OAC rule 3745-17-08. Therefore, pursuant to OAC rule 3745-17-08(A), this emissions unit is exempt from the requirements of OAC rule 3745-17-08(B).
- c) Operational Restrictions
 - (1) None.
- d) Monitoring and/or Recordkeeping Requirements
 - (1) The permittee shall maintain records which include the following information for the paved roadways and parking areas:
 - a. Each date the paved surfaces were swept.
 - b. For each date in d)(1)a., the portions of the paved surfaces that were swept.



- c. The name of the equipment operator responsible for each sweeping.

[OAC rule 3745-77-07(C)(1) and PTI #03-13047]

- (2) The permittee shall maintain records which include the following information for the unpaved roadways and parking areas:

- a. Each date dust suppressants were applied to the unpaved surfaces.
- b. For each date in d)(2)a., the portions of unpaved surfaces that were treated with dust suppressants.
- c. For each date in d)(2)a., the application rate of water and any chemical additives (gallons of each per square yard).
- d. The name of the equipment operator responsible for each application of the dust suppressants.

[OAC rule 3745-77-07(C)(1) and PTI #03-13047]

- e) Reporting Requirements

- (1) None.

- f) Testing Requirements

- (1) Compliance with the emission limitations in Section b)(1) of these terms and conditions shall be determined in accordance with the following methods:

- a. Emission Limitation: 58.73 tons fugitive PE/year

Applicable Compliance Method: Compliance shall be determined by calculating the emissions from the paved and unpaved roadways and parking areas utilizing AP-42 emission factors, sections 13.2.1 (paved roadways) (revised 1997) and 13.2.2 (unpaved roadways) [revised 1998].

[OAC rule 3745-77-07(C)(1) and PTI #03-13047]

- b. Emission Limitation: no visible fugitive emissions from any paved roadway or parking area except for a period of time not to exceed 1 minute during any 60-minute observation period

Applicable Compliance Method: If required, the permittee shall demonstrate compliance in accordance with Method 22 of 40 CFR, Part 60, Appendix A.

[OAC rule 3745-77-07(C)(1) and PTI #03-13047]

- c. Emission Limitation: no visible fugitive emissions from any unpaved roadway or parking area except for a period of time not to exceed 3 minutes during any 60-minute observation period.

Applicable Compliance Method: If required, the permittee shall demonstrate compliance in accordance with Method 22 of 40 CFR, Part 60, Appendix A.



State of Ohio Environmental Protection Agency
Division of Air Pollution Control

Final Title V Permit
Permit Number: P0087298
Facility ID: 0351000051
Effective Date: 12/4/2008

[OAC rule 3745-77-07(C)(1) and PTI #03-13047]

g) Miscellaneous Requirements

(1) None.



3. F003, Caledonia Crusher

Operations, Property and/or Equipment Description:

Crusher

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

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-17-07(B)	none [See b)(2)a.]
b.	OAC rule 3745-17-08(B)	none [See b)(2)b.]

(2) Additional Terms and Conditions

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

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

c) Operational Restrictions

(1) None.

d) Monitoring and/or Recordkeeping Requirements

(1) None.

e) Reporting Requirements

(1) None.

f) Testing Requirements

(1) None.



State of Ohio Environmental Protection Agency
Division of Air Pollution Control

Final Title V Permit
Permit Number: P0087298
Facility ID: 0351000051
Effective Date: 12/4/2008

g) Miscellaneous Requirements

(1) None.



4. P001, Periodic Dryer #1

Operations, Property and/or Equipment Description:

Dry Green Brick Prior to Firing (1 mmBTU/hr natural gas fired direct fired brick dryers)

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

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05 (PTI #03-13047, issued 5/8/00)	0.30 lb particulate emissions (PE)/hr and 1.31 tons PE/yr 0.38 lb nitrogen oxides (NOx)/hr and 1.66 tons NOx/yr 1.21 lbs carbon monoxide (CO)/hr and 5.30 tons CO/yr
b.	OAC rule 3745-17-07(A)	none [See b)(2)a.]
c.	OAC rule 3745-17-11(B)	none [See b)(2)b.]

(2) Additional Terms and Conditions

a. This emissions unit is exempt from the visible emissions 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.

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 because the facility is located in Marion County.

c. The 0.3 lb PE/hr, 1.31 tons PE/yr, 0.38 lb NOx/hr, 1.66 tons NOx/yr, 1.21 lbs CO/hr and 5.30 tons CO/yr emission limitations were established for PTI purposes to reflect the potentials to emit for this emissions unit. Therefore, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with these limitations.



c) Operational Restrictions

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

[OAC rule 3745-77-07(A)(1) and PTI #03-13047]

d) Monitoring and/or Recordkeeping 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 #03-13047]

e) Reporting Requirements

- (1) The permittee shall submit quarterly 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 #03-13047]

f) Testing Requirements

- (1) Compliance with the emission limitations in Section b)(1) of these terms and conditions shall be determined in accordance with the following methods:

- a. Emission Limitations: 0.30 pound PE/hour and 1.31 tons PE/year

Applicable Compliance Method: Compliance with the hourly allowable PE limitation may be determined by multiplying the AP-42, 5th Edition, Table 11.3-1 emission factor of 0.077 pound of PE per ton of brick by the maximum hourly production rate of 3.90 TPH of brick dried.

Compliance with the annual allowable PE limitation shall be assumed as long as compliance with the hourly allowable PE limitation is maintained (the annual emission limitation was calculated by multiplying the hourly emission limitation by 8760, and then dividing by 2000).

If required, the permittee shall demonstrate compliance with the hourly allowable PE limitation pursuant to Methods 1 - 5 of 40 CFR, Part 60, Appendix A.

[OAC rule 3745-77-07(C)(1) and PTI #03-13047]

- b. Emission Limitations: 0.38 pound NOx/hour and 1.66 tons NOx/year

Applicable Compliance Method: Compliance with the hourly allowable NOx emission limitation may be determined by multiplying the AP-42, 5th Edition, Table 11.3-3 emission factor of 0.098 pound of NOx per ton of brick by the maximum hourly production rate of 3.90 TPH of brick dried.

Compliance with the annual allowable NOx emission limitation shall be assumed as long as compliance with the hourly allowable NOx emission limitation is



maintained (the annual emission limitation was calculated by multiplying the hourly emission limitation by 8760, and then dividing by 2000).

If required, the permittee shall demonstrate compliance with the hourly allowable NOx emission limitation pursuant to Methods 1 through 4 and 7 of 40 CFR, Part 60, Appendix A.

[OAC rule 3745-77-07(C)(1) and PTI #03-13047]

- c. Emission Limitations: 1.21 pounds CO/hour and 5.30 tons CO/year

Applicable Compliance Method: Compliance with the hourly allowable CO emission limitation may be determined by multiplying the AP-42, 5th Edition, Table 11.3-3 emission factor of 0.310 pound of CO per ton of brick by the maximum hourly production rate of 3.90 TPH of brick dried.

Compliance with the annual allowable CO emission limitation shall be assumed as long as compliance with the hourly allowable CO emission limitation is maintained (the annual emission limitation was calculated by multiplying the hourly emission limitation by 8760, and then dividing by 2000).

If required, the permittee shall demonstrate compliance with the hourly allowable CO emission limitation pursuant to Methods 1 through 4 and 10 of 40 CFR, Part 60, Appendix A.

[OAC rule 3745-77-07(C)(1) and PTI #03-13047]

- g) Miscellaneous Requirements

- (1) None.



5. P002, Periodic Dryer #2

Operations, Property and/or Equipment Description:

Dry Green Brick Prior to Firing (1 mmBTU/hr natural gas fired direct fired brick dryers)

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

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05 (PTI #03-13047, issued 5/8/00)	0.30 lb particulate emissions (PE)/hr and 1.31 tons PE/yr 0.38 lb nitrogen oxides (NOx)/hr and 1.66 tons NOx/yr 1.21 lbs carbon monoxide (CO)/hr and 5.30 tons CO/yr
b.	OAC rule 3745-17-07(A)	none [See b)(2)a.]
c.	OAC rule 3745-17-11(B)	none [See b)(2)b.]

(2) Additional Terms and Conditions

a. This emissions unit is exempt from the visible emissions 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.

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 because the facility is located in Marion County.

c. The 0.3 lb PE/hr, 1.31 tons PE/yr, 0.38 lb NOx/hr, 1.66 tons NOx/yr, 1.21 lbs CO/hr and 5.30 tons CO/yr emission limitations were established for PTI purposes to reflect the potentials to emit for this emissions unit. Therefore, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with these limitations.



c) Operational Restrictions

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

[OAC rule 3745-77-07(A)(1) and PTI #03-13047]

d) Monitoring and/or Recordkeeping 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 #03-13047]

e) Reporting Requirements

- (1) The permittee shall submit quarterly 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 #03-13047]

f) Testing Requirements

- (1) Compliance with the emission limitations in Section b)(1) of these terms and conditions shall be determined in accordance with the following methods:

- a. Emission Limitations: 0.30 pound PE/hour and 1.31 tons PE/year

Applicable Compliance Method: Compliance with the hourly allowable PE limitation may be determined by multiplying the AP-42, 5th Edition, Table 11.3-1 emission factor of 0.077 pound of PE per ton of brick by the maximum hourly production rate of 3.90 TPH of brick dried.

Compliance with the annual allowable PE limitation shall be assumed as long as compliance with the hourly allowable PE limitation is maintained (the annual emission limitation was calculated by multiplying the hourly emission limitation by 8760, and then dividing by 2000).

If required, the permittee shall demonstrate compliance with the hourly allowable PE limitation pursuant to Methods 1 - 5 of 40 CFR, Part 60, Appendix A.

[OAC rule 3745-77-07(C)(1) and PTI #03-13047]

- b. Emission Limitations: 0.38 pound NOx/hour and 1.66 tons NOx/year

Applicable Compliance Method: Compliance with the hourly allowable NOx emission limitation may be determined by multiplying the AP-42, 5th Edition, Table 11.3-3 emission factor of 0.098 pound of NOx per ton of brick by the maximum hourly production rate of 3.90 TPH of brick dried.

Compliance with the annual allowable NOx emission limitation shall be assumed as long as compliance with the hourly allowable NOx emission limitation is



maintained (the annual emission limitation was calculated by multiplying the hourly emission limitation by 8760, and then dividing by 2000).

If required, the permittee shall demonstrate compliance with the hourly allowable NOx emission limitation pursuant to Methods 1 through 4 and 7 of 40 CFR, Part 60, Appendix A.

[OAC rule 3745-77-07(C)(1) and PTI #03-13047]

- c. Emission Limitations: 1.21 pounds CO/hour and 5.30 tons CO/year

Applicable Compliance Method: Compliance with the hourly allowable CO emission limitation may be determined by multiplying the AP-42, 5th Edition, Table 11.3-3 emission factor of 0.310 pound of CO per ton of brick by the maximum hourly production rate of 3.90 TPH of brick dried.

Compliance with the annual allowable CO emission limitation shall be assumed as long as compliance with the hourly allowable CO emission limitation is maintained (the annual emission limitation was calculated by multiplying the hourly emission limitation by 8760, and then dividing by 2000).

If required, the permittee shall demonstrate compliance with the hourly allowable CO emission limitation pursuant to Methods 1 through 4 and 10 of 40 CFR, Part 60, Appendix A.

[OAC rule 3745-77-07(C)(1) and PTI #03-13047]

- g) Miscellaneous Requirements

- (1) None.



6. P003, Periodic Dryer #3

Operations, Property and/or Equipment Description:

Dry Green Brick Prior to Firing (1 mmBTU/hr natural gas fired direct fired brick dryers)

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

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05 (PTI #03-13047, issued 5/8/00)	0.30 lb particulate emissions (PE)/hr and 1.31 tons PE/yr 0.38 lb nitrogen oxides (NOx)/hr and 1.66 tons NOx/yr 1.21 lbs carbon monoxide (CO)/hr and 5.30 tons CO/yr
b.	OAC rule 3745-17-07(A)	none [See b)(2)a.]
c.	OAC rule 3745-17-11(B)	none [See b)(2)b.]

(2) Additional Terms and Conditions

a. This emissions unit is exempt from the visible emissions 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.

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 because the facility is located in Marion County.

c. The 0.3 lb PE/hr, 1.31 tons PE/yr, 0.38 lb NOx/hr, 1.66 tons NOx/yr, 1.21 lbs CO/hr and 5.30 tons CO/yr emission limitations were established for PTI purposes to reflect the potentials to emit for this emissions unit. Therefore, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with these limitations.



c) Operational Restrictions

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

[OAC rule 3745-77-07(A)(1) and PTI #03-13047]

d) Monitoring and/or Recordkeeping 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 #03-13047]

e) Reporting Requirements

- (1) The permittee shall submit quarterly 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 #03-13047]

f) Testing Requirements

- (1) Compliance with the emission limitations in Section b)(1) of these terms and conditions shall be determined in accordance with the following methods:

- a. Emission Limitations: 0.30 pound PE/hour and 1.31 tons PE/year

Applicable Compliance Method: Compliance with the hourly allowable PE limitation may be determined by multiplying the AP-42, 5th Edition, Table 11.3-1 emission factor of 0.077 pound of PE per ton of brick by the maximum hourly production rate of 3.90 TPH of brick dried.

Compliance with the annual allowable PE limitation shall be assumed as long as compliance with the hourly allowable PE limitation is maintained (the annual emission limitation was calculated by multiplying the hourly emission limitation by 8760, and then dividing by 2000).

If required, the permittee shall demonstrate compliance with the hourly allowable PE limitation pursuant to Methods 1 - 5 of 40 CFR, Part 60, Appendix A.

[OAC rule 3745-77-07(C)(1) and PTI #03-13047]

- b. Emission Limitations: 0.38 pound NOx/hour and 1.66 tons NOx/year

Applicable Compliance Method: Compliance with the hourly allowable NOx emission limitation may be determined by multiplying the AP-42, 5th Edition, Table 11.3-3 emission factor of 0.098 pound of NOx per ton of brick by the maximum hourly production rate of 3.90 TPH of brick dried.

Compliance with the annual allowable NOx emission limitation shall be assumed as long as compliance with the hourly allowable NOx emission limitation is



maintained (the annual emission limitation was calculated by multiplying the hourly emission limitation by 8760, and then dividing by 2000).

If required, the permittee shall demonstrate compliance with the hourly allowable NOx emission limitation pursuant to Methods 1 through 4 and 7 of 40 CFR, Part 60, Appendix A.

[OAC rule 3745-77-07(C)(1) and PTI #03-13047]

- c. Emission Limitations: 1.21 pounds CO/hour and 5.30 tons CO/year

Applicable Compliance Method: Compliance with the hourly allowable CO emission limitation may be determined by multiplying the AP-42, 5th Edition, Table 11.3-3 emission factor of 0.310 pound of CO per ton of brick by the maximum hourly production rate of 3.90 TPH of brick dried.

Compliance with the annual allowable CO emission limitation shall be assumed as long as compliance with the hourly allowable CO emission limitation is maintained (the annual emission limitation was calculated by multiplying the hourly emission limitation by 8760, and then dividing by 2000).

If required, the permittee shall demonstrate compliance with the hourly allowable CO emission limitation pursuant to Methods 1 through 4 and 10 of 40 CFR, Part 60, Appendix A.

[OAC rule 3745-77-07(C)(1) and PTI #03-13047]

- g) Miscellaneous Requirements

- (1) None.



7. P004, Periodic Dryer #4

Operations, Property and/or Equipment Description:

Dry Green Brick Prior to Firing (1 mmBTU/hr natural gas fired direct fired brick dryers)

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

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05 (PTI #03-13047, issued 5/8/00)	0.30 lb particulate emissions (PE)/hr and 1.31 tons PE/yr 0.38 lb nitrogen oxides (NOx)/hr and 1.66 tons NOx/yr 1.21 lbs carbon monoxide (CO)/hr and 5.30 tons CO/yr
b.	OAC rule 3745-17-07(A)	none [See b)(2)a.]
c.	OAC rule 3745-17-11(B)	none [See b)(2)b.]

(2) Additional Terms and Conditions

a. This emissions unit is exempt from the visible emissions 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.

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 because the facility is located in Marion County.

c. The 0.3 lb PE/hr, 1.31 tons PE/yr, 0.38 lb NOx/hr, 1.66 tons NOx/yr, 1.21 lbs CO/hr and 5.30 tons CO/yr emission limitations were established for PTI purposes to reflect the potentials to emit for this emissions unit. Therefore, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with these limitations.



c) Operational Restrictions

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

[OAC rule 3745-77-07(A)(1) and PTI #03-13047]

d) Monitoring and/or Recordkeeping 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 #03-13047]

e) Reporting Requirements

- (1) The permittee shall submit quarterly 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 #03-13047]

f) Testing Requirements

- (1) Compliance with the emission limitations in Section b)(1) of these terms and conditions shall be determined in accordance with the following methods:

- a. Emission Limitations: 0.30 pound PE/hour and 1.31 tons PE/year

Applicable Compliance Method: Compliance with the hourly allowable PE limitation may be determined by multiplying the AP-42, 5th Edition, Table 11.3-1 emission factor of 0.077 pound of PE per ton of brick by the maximum hourly production rate of 3.90 TPH of brick dried.

Compliance with the annual allowable PE limitation shall be assumed as long as compliance with the hourly allowable PE limitation is maintained (the annual emission limitation was calculated by multiplying the hourly emission limitation by 8760, and then dividing by 2000).

If required, the permittee shall demonstrate compliance with the hourly allowable PE limitation pursuant to Methods 1 - 5 of 40 CFR, Part 60, Appendix A.

[OAC rule 3745-77-07(C)(1) and PTI #03-13047]

- b. Emission Limitations: 0.38 pound NOx/hour and 1.66 tons NOx/year

Applicable Compliance Method: Compliance with the hourly allowable NOx emission limitation may be determined by multiplying the AP-42, 5th Edition, Table 11.3-3 emission factor of 0.098 pound of NOx per ton of brick by the maximum hourly production rate of 3.90 TPH of brick dried.

Compliance with the annual allowable NOx emission limitation shall be assumed as long as compliance with the hourly allowable NOx emission limitation is



maintained (the annual emission limitation was calculated by multiplying the hourly emission limitation by 8760, and then dividing by 2000).

If required, the permittee shall demonstrate compliance with the hourly allowable NOx emission limitation pursuant to Methods 1 through 4 and 7 of 40 CFR, Part 60, Appendix A.

[OAC rule 3745-77-07(C)(1) and PTI #03-13047]

- c. Emission Limitations: 1.21 pounds CO/hour and 5.30 tons CO/year

Applicable Compliance Method: Compliance with the hourly allowable CO emission limitation may be determined by multiplying the AP-42, 5th Edition, Table 11.3-3 emission factor of 0.310 pound of CO per ton of brick by the maximum hourly production rate of 3.90 TPH of brick dried.

Compliance with the annual allowable CO emission limitation shall be assumed as long as compliance with the hourly allowable CO emission limitation is maintained (the annual emission limitation was calculated by multiplying the hourly emission limitation by 8760, and then dividing by 2000).

If required, the permittee shall demonstrate compliance with the hourly allowable CO emission limitation pursuant to Methods 1 through 4 and 10 of 40 CFR, Part 60, Appendix A.

[OAC rule 3745-77-07(C)(1) and PTI #03-13047]

- g) Miscellaneous Requirements

- (1) None.



8. P005, Periodic Dryer #5

Operations, Property and/or Equipment Description:

Dry Green Brick Prior to Firing (1 mmBTU/hr natural gas fired direct fired brick dryers)

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

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05 (PTI #03-13047, issued 5/8/00)	0.30 lb particulate emissions (PE)/hr and 1.31 tons PE/yr 0.38 lb nitrogen oxides (NOx)/hr and 1.66 tons NOx/yr 1.21 lbs carbon monoxide (CO)/hr and 5.30 tons CO/yr
b.	OAC rule 3745-17-07(A)	none [See b)(2)a.]
c.	OAC rule 3745-17-11(B)	none [See b)(2)b.]

(2) Additional Terms and Conditions

a. This emissions unit is exempt from the visible emissions 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.

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 because the facility is located in Marion County.

c. The 0.3 lb PE/hr, 1.31 tons PE/yr, 0.38 lb NOx/hr, 1.66 tons NOx/yr, 1.21 lbs CO/hr and 5.30 tons CO/yr emission limitations were established for PTI purposes to reflect the potentials to emit for this emissions unit. Therefore, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with these limitations.



c) Operational Restrictions

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

[OAC rule 3745-77-07(A)(1) and PTI #03-13047]

d) Monitoring and/or Recordkeeping 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 #03-13047]

e) Reporting Requirements

- (1) The permittee shall submit quarterly 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 #03-13047]

f) Testing Requirements

- (1) Compliance with the emission limitations in Section b)(1) of these terms and conditions shall be determined in accordance with the following methods:

- a. Emission Limitations: 0.30 pound PE/hour and 1.31 tons PE/year

Applicable Compliance Method: Compliance with the hourly allowable PE limitation may be determined by multiplying the AP-42, 5th Edition, Table 11.3-1 emission factor of 0.077 pound of PE per ton of brick by the maximum hourly production rate of 3.90 TPH of brick dried.

Compliance with the annual allowable PE limitation shall be assumed as long as compliance with the hourly allowable PE limitation is maintained (the annual emission limitation was calculated by multiplying the hourly emission limitation by 8760, and then dividing by 2000).

If required, the permittee shall demonstrate compliance with the hourly allowable PE limitation pursuant to Methods 1 - 5 of 40 CFR, Part 60, Appendix A.

[OAC rule 3745-77-07(C)(1) and PTI #03-13047]

- b. Emission Limitations: 0.38 pound NOx/hour and 1.66 tons NOx/year

Applicable Compliance Method: Compliance with the hourly allowable NOx emission limitation may be determined by multiplying the AP-42, 5th Edition, Table 11.3-3 emission factor of 0.098 pound of NOx per ton of brick by the maximum hourly production rate of 3.90 TPH of brick dried.

Compliance with the annual allowable NOx emission limitation shall be assumed as long as compliance with the hourly allowable NOx emission limitation is



maintained (the annual emission limitation was calculated by multiplying the hourly emission limitation by 8760, and then dividing by 2000).

If required, the permittee shall demonstrate compliance with the hourly allowable NOx emission limitation pursuant to Methods 1 through 4 and 7 of 40 CFR, Part 60, Appendix A.

[OAC rule 3745-77-07(C)(1) and PTI #03-13047]

- c. Emission Limitations: 1.21 pounds CO/hour and 5.30 tons CO/year

Applicable Compliance Method: Compliance with the hourly allowable CO emission limitation may be determined by multiplying the AP-42, 5th Edition, Table 11.3-3 emission factor of 0.310 pound of CO per ton of brick by the maximum hourly production rate of 3.90 TPH of brick dried.

Compliance with the annual allowable CO emission limitation shall be assumed as long as compliance with the hourly allowable CO emission limitation is maintained (the annual emission limitation was calculated by multiplying the hourly emission limitation by 8760, and then dividing by 2000).

If required, the permittee shall demonstrate compliance with the hourly allowable CO emission limitation pursuant to Methods 1 through 4 and 10 of 40 CFR, Part 60, Appendix A.

[OAC rule 3745-77-07(C)(1) and PTI #03-13047]

- g) Miscellaneous Requirements

- (1) None.



9. P006, Periodic Dryer #6

Operations, Property and/or Equipment Description:

Dry Green Brick Prior to Firing (1 mmBTU/hr natural gas fired direct fired brick dryers)

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

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05 (PTI #03-13047, issued 5/8/00)	0.30 lb particulate emissions (PE)/hr and 1.31 tons PE/yr 0.38 lb nitrogen oxides (NOx)/hr and 1.66 tons NOx/yr 1.21 lbs carbon monoxide (CO)/hr and 5.30 tons CO/yr
b.	OAC rule 3745-17-07(A)	none [See b)(2)a.]
c.	OAC rule 3745-17-11(B)	none [See b)(2)b.]

(2) Additional Terms and Conditions

a. This emissions unit is exempt from the visible emissions 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.

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 because the facility is located in Marion County.

c. The 0.3 lb PE/hr, 1.31 tons PE/yr, 0.38 lb NOx/hr, 1.66 tons NOx/yr, 1.21 lbs CO/hr and 5.30 tons CO/yr emission limitations were established for PTI purposes to reflect the potentials to emit for this emissions unit. Therefore, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with these limitations.



c) Operational Restrictions

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

[OAC rule 3745-77-07(A)(1) and PTI #03-13047]

d) Monitoring and/or Recordkeeping 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 #03-13047]

e) Reporting Requirements

- (1) The permittee shall submit quarterly 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 #03-13047]

f) Testing Requirements

- (1) Compliance with the emission limitations in Section b)(1) of these terms and conditions shall be determined in accordance with the following methods:

- a. Emission Limitations: 0.30 pound PE/hour and 1.31 tons PE/year

Applicable Compliance Method: Compliance with the hourly allowable PE limitation may be determined by multiplying the AP-42, 5th Edition, Table 11.3-1 emission factor of 0.077 pound of PE per ton of brick by the maximum hourly production rate of 3.90 TPH of brick dried.

Compliance with the annual allowable PE limitation shall be assumed as long as compliance with the hourly allowable PE limitation is maintained (the annual emission limitation was calculated by multiplying the hourly emission limitation by 8760, and then dividing by 2000).

If required, the permittee shall demonstrate compliance with the hourly allowable PE limitation pursuant to Methods 1 - 5 of 40 CFR, Part 60, Appendix A.

[OAC rule 3745-77-07(C)(1) and PTI #03-13047]

- b. Emission Limitations: 0.38 pound NOx/hour and 1.66 tons NOx/year

Applicable Compliance Method: Compliance with the hourly allowable NOx emission limitation may be determined by multiplying the AP-42, 5th Edition, Table 11.3-3 emission factor of 0.098 pound of NOx per ton of brick by the maximum hourly production rate of 3.90 TPH of brick dried.

Compliance with the annual allowable NOx emission limitation shall be assumed as long as compliance with the hourly allowable NOx emission limitation is



maintained (the annual emission limitation was calculated by multiplying the hourly emission limitation by 8760, and then dividing by 2000).

If required, the permittee shall demonstrate compliance with the hourly allowable NOx emission limitation pursuant to Methods 1 through 4 and 7 of 40 CFR, Part 60, Appendix A.

[OAC rule 3745-77-07(C)(1) and PTI #03-13047]

- c. Emission Limitations: 1.21 pounds CO/hour and 5.30 tons CO/year

Applicable Compliance Method: Compliance with the hourly allowable CO emission limitation may be determined by multiplying the AP-42, 5th Edition, Table 11.3-3 emission factor of 0.310 pound of CO per ton of brick by the maximum hourly production rate of 3.90 TPH of brick dried.

Compliance with the annual allowable CO emission limitation shall be assumed as long as compliance with the hourly allowable CO emission limitation is maintained (the annual emission limitation was calculated by multiplying the hourly emission limitation by 8760, and then dividing by 2000).

If required, the permittee shall demonstrate compliance with the hourly allowable CO emission limitation pursuant to Methods 1 through 4 and 10 of 40 CFR, Part 60, Appendix A.

[OAC rule 3745-77-07(C)(1) and PTI #03-13047]

- g) Miscellaneous Requirements

- (1) None.



10. P007, Periodic Dryer #7

Operations, Property and/or Equipment Description:

Dry Green Brick Prior to Firing (1 mmBTU/hr natural gas fired direct fired brick dryers)

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

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05 (PTI #03-13047, issued 5/8/00)	0.30 lb particulate emissions (PE)/hr and 1.31 tons PE/yr 0.38 lb nitrogen oxides (NOx)/hr and 1.66 tons NOx/yr 1.21 lbs carbon monoxide (CO)/hr and 5.30 tons CO/yr
b.	OAC rule 3745-17-07(A)	none [See b)(2)a.]
c.	OAC rule 3745-17-11(B)	none [See b)(2)b.]

(2) Additional Terms and Conditions

a. This emissions unit is exempt from the visible emissions 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.

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 because the facility is located in Marion County.

c. The 0.3 lb PE/hr, 1.31 tons PE/yr, 0.38 lb NOx/hr, 1.66 tons NOx/yr, 1.21 lbs CO/hr and 5.30 tons CO/yr emission limitations were established for PTI purposes to reflect the potentials to emit for this emissions unit. Therefore, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with these limitations.



c) Operational Restrictions

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

[OAC rule 3745-77-07(A)(1) and PTI #03-13047]

d) Monitoring and/or Recordkeeping 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 #03-13047]

e) Reporting Requirements

- (1) The permittee shall submit quarterly 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 #03-13047]

f) Testing Requirements

- (1) Compliance with the emission limitations in Section b)(1) of these terms and conditions shall be determined in accordance with the following methods:

- a. Emission Limitations: 0.30 pound PE/hour and 1.31 tons PE/year

Applicable Compliance Method: Compliance with the hourly allowable PE limitation may be determined by multiplying the AP-42, 5th Edition, Table 11.3-1 emission factor of 0.077 pound of PE per ton of brick by the maximum hourly production rate of 3.90 TPH of brick dried.

Compliance with the annual allowable PE limitation shall be assumed as long as compliance with the hourly allowable PE limitation is maintained (the annual emission limitation was calculated by multiplying the hourly emission limitation by 8760, and then dividing by 2000).

If required, the permittee shall demonstrate compliance with the hourly allowable PE limitation pursuant to Methods 1 - 5 of 40 CFR, Part 60, Appendix A.

[OAC rule 3745-77-07(C)(1) and PTI #03-13047]

- b. Emission Limitations: 0.38 pound NOx/hour and 1.66 tons NOx/year

Applicable Compliance Method: Compliance with the hourly allowable NOx emission limitation may be determined by multiplying the AP-42, 5th Edition, Table 11.3-3 emission factor of 0.098 pound of NOx per ton of brick by the maximum hourly production rate of 3.90 TPH of brick dried.

Compliance with the annual allowable NOx emission limitation shall be assumed as long as compliance with the hourly allowable NOx emission limitation is



maintained (the annual emission limitation was calculated by multiplying the hourly emission limitation by 8760, and then dividing by 2000).

If required, the permittee shall demonstrate compliance with the hourly allowable NOx emission limitation pursuant to Methods 1 through 4 and 7 of 40 CFR, Part 60, Appendix A.

[OAC rule 3745-77-07(C)(1) and PTI #03-13047]

- c. Emission Limitations: 1.21 pounds CO/hour and 5.30 tons CO/year

Applicable Compliance Method: Compliance with the hourly allowable CO emission limitation may be determined by multiplying the AP-42, 5th Edition, Table 11.3-3 emission factor of 0.310 pound of CO per ton of brick by the maximum hourly production rate of 3.90 TPH of brick dried.

Compliance with the annual allowable CO emission limitation shall be assumed as long as compliance with the hourly allowable CO emission limitation is maintained (the annual emission limitation was calculated by multiplying the hourly emission limitation by 8760, and then dividing by 2000).

If required, the permittee shall demonstrate compliance with the hourly allowable CO emission limitation pursuant to Methods 1 through 4 and 10 of 40 CFR, Part 60, Appendix A.

[OAC rule 3745-77-07(C)(1) and PTI #03-13047]

- g) Miscellaneous Requirements

- (1) None.



11. P008, Tunnel Kiln

Operations, Property and/or Equipment Description:

47.6 mmBTU/hr natural gas fired tunnel kiln

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

(1) g)(1)

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3) (PTI #03-17026, issued 5/9/06)	6.54 lbs particulate emissions (PE)/hr and 28.65 tons PE/yr 0.43 lb volatile organic compounds (VOC)/hr and 1.88 tons VOC/yr 182.60 lbs sulfur dioxide (SO ₂)/hr 6.18 lbs nitrogen dioxide (NO _x)/hr and 27.07 tons NO _x /yr 21.20 lbs carbon monoxide (CO)/hr and 92.86 tons CO/yr 2.25 lbs hydrogen chloride (HCl)/hr and 9.86 tons HCl/yr See b)(2)a.
b.	OAC rule 3745-31-05(D) (PTI #03-17026, issued 5/9/06)	230.0 tons SO ₂ per rolling, 12-month period [See b)(2)b] 2.18 lbs hydrogen fluoride (HF)/hr, 9.55 tons HF/rolling 12-month period [See b)(2)g.]
c.	OAC rule 3745-17-07(A)	See b)(2)c.
d.	OAC rule 3745-17-11(B)	See b)(2)d.
e.	OAC rule 3745-18-06	See b)(2)e.
f.	40 CFR, Part 64 – Compliance Assurance Monitoring (CAM)	See Sections c)(3)-(5), d)(1), d)(3)-(8), and e)(3)-(4)



(2) Additional Terms and Conditions

- a. The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-05(C).
- b. The SO₂ emissions from this emissions unit shall not exceed 230.0 tons per rolling 12-month period based on raw material input restrictions [See c)(1)].

The 230.0 tons of SO₂ per rolling 12-month period is a federally enforceable limitation established for purposes of avoiding "Prevention of Significant Deterioration" (PSD) applicability.

The rolling SO₂ emission limitation for emissions unit P008 was initially established in Permit to Install (PTI) #03-13047 issued on April 26, 2000 and subsequently issued as a corrected copy on May 8, 2000, and, as a result, rolling SO₂ emission records exist. The applicant shall use the existing records to determine compliance upon startup under this permit. Therefore, it is not necessary to establish federally enforceable restrictions for the first 12 months of operation under the provisions of this permit.

- 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. 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 Marion county.
- 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 Marion county.
- e. The emissions limitations established by this rule are less stringent than those established by OAC rule 3745-31-05.
- f. The 6.54 lbs PE/hr, 28.65 tons PE/yr, 0.43 lb VOC/hr, 1.88 tons VOC/yr, 6.18 lbs NO_x/hr, 27.07 tons NO_x/yr, 21.20 lbs CO/hr, 92.86 tons CO/yr, 2.25 lbs HCl/hr and 9.86 tons HCl/yr emission limitations were established for PTI purposes to reflect the potentials to emit for this emissions unit. Therefore, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with these limitations.
- g. This permit establishes a federally enforceable limitation of 9.55 tons HF per rolling 12-month period for the purpose of having the controlled HF emission rate represent the potential to emit of the emissions unit. The potential to emit is based on a maximum of 2.18 pounds HF per hour (see below) and a maximum operating schedule of 8,760 hours per year. The federally enforceable HF limitation shall be established through OAC rule 3745-31-05(C), and includes the following requirements:
 - i. HF emissions shall be controlled by a fluorine cascade absorber to a maximum mass emission rate of 2.18 lbs/hr.



- ii. The fluorine cascade absorber shall achieve a minimum control efficiency of 61.5% (100% capture).

The 9.55 tons HF per rolling 12-month period is a federally enforceable limitation established for purposes of avoiding "Maximum Achievable Control Technology" applicability.

c) Operational Restrictions

- (1) The maximum rolling 12-month process weight rate of raw material for emissions unit P008 is limited by the following equation:

$$12$$

$$\sum_{M=1} S3 \leq 230.0$$

$$M=1$$

Where,

M = the increment of the rolling 12-month period;

S3 = see d)(1)c. for calculation details

[OAC rule 3745-77-07(A)(1) and PTI #03-13047]

- (2) The permittee shall only burn natural gas in this emissions unit.

[OAC rule 3745-77-07(A)(1) and PTI #03-17026]

- (3) The pressure drop across the fluorine cascade absorber shall be maintained within the range of 0.3 to 3.0 millibars while the emissions unit is in operation.

[OAC rule 3745-77-07(C)(1), 40 CFR, Part 64 and PTI #03-17026]

- (4) Any limestone material which has been used in the fluorine cascade absorber to remove HF must be processed ("peeled") to remove any absorbed HF prior to reuse in the cascade absorber.

[OAC rule 3745-77-07(C)(1), 40 CFR, Part 64 and PTI #03-17026]

- (5) The material in the limestone silo associated with the fluorine cascade absorber shall be maintained at a level no lower than the minimum fill level specified by the manufacturer's specifications.

[OAC rule 3745-77-07(C)(1), 40 CFR, Part 64 and PTI #03-17026]

d) Monitoring and/or Recordkeeping Requirements

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

- a. the process weight rate of each brick body raw material employed, in lbs;



b. the sulfur weight % of each brick body raw material processed (based upon a once per quarter test of each brick body raw material);

c. the monthly SO₂ emissions, in tons, calculated as follows:

$$S = [\text{Sum } (S_i \times W_i)] \times 1.998 / 2000$$

Where:

S = monthly SO₂ emissions

S_i = weight % sulfur of the specific raw material

W_i = specific raw material usage

i = raw material type

d. The rolling, 12-month summation of the monthly SO₂ emissions, in tons.

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

f. The average hourly SO₂ emissions $[d)(1)c. \times 2000 / d)(1)e.]$, in pounds (average).

[OAC rule 3745-77-07(C)(1), 40 CFR, Part 64 and PTI #03-17026]

(2) 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 #03-17026]

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

[OAC rule 3745-77-07(C)(1), 40 CFR, Part 64 and PTI #03-17026]

(4) The permittee shall maintain a record of any time period during which the permittee reuses limestone material that has not been processed ("peeled") to remove any absorbed HF prior to reuse in the cascade absorber.

[OAC rule 3745-77-07(C)(1), 40 CFR, Part 64 and PTI #03-17026]

(5) The permittee shall properly install, operate, and maintain an alarm system to ensure the material level in the limestone silo associated with the fluorine cascade absorber is maintained at a level no lower than the minimum fill level specified by the manufacturer's specifications. The permittee shall maintain records that document any time periods when the alarm system indicated that the minimum fill level in the limestone silo was not maintained.



[OAC rule 3745-77-07(C)(1), 40 CFR, Part 64 and PTI #03-17026]

- (6) The CAM plan for this emissions unit has been developed for hydrogen fluoride emissions. The CAM performance indicators for the fluorine cascade absorber controlling this emissions unit are the pressure drop across the absorber, which was established in accordance with the manufacturer's recommendations. When the pressure drop shows 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 e) below. The emissions unit and control equipment shall be operated in accordance with the approved CAM Plan, or any approved revision of the Plan. The baghouse shall not be configured to have bypass capability.

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

- (7) 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]

- (8) 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]

e) 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 #03-17026]

- (2) The permittee shall submit deviation (excursion) reports which identify all exceedances of the following:
 - a. the rolling, 12-month emission limitation for SO₂; and
 - b. the rolling, 12-month process weight rate restriction in c)(1).

These reports shall be submitted in accordance with the Standard Terms and Conditions of this permit.

[OAC rule 3745-77-07(C)(1) and PTI #03-17026]



- (3) The permittee shall submit deviation (excursion) reports that identify all periods of time during which the following fluorine cascade absorber parameters were not maintained in accordance with requirements contained in this permit:
- a. the pressure drop across the fluorine cascade absorber; and
 - b. any time periods the material level in the limestone silo associated with the fluorine cascade absorber was not maintained at the level specified in c)(5).

These reports shall be submitted in accordance with the Standard Terms and Conditions of this permit.

[OAC rule 3745-77-07(C)(1), 40 CFR, Part 64 and PTI #03-17026]

- (4) The permittee shall submit deviation (excursion) reports that identify any time period during which the permittee reuses limestone material that has not been processed ("peeled") to remove any absorbed HF prior to reuse in the cascade absorber. Each report shall be submitted within 5 days after the deviation occurs.

[OAC rule 3745-77-07(C)(1), 40 CFR, Part 64 and PTI #03-17026]

f) Testing Requirements

- (1) The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:
- a. The emission testing shall be conducted within 6 months prior to permit expiration.
 - b. The emission testing shall be conducted to demonstrate compliance with the following:
 - i. allowable hourly mass emission rate for HCl
 - ii. allowable hourly mass emission rate for HF
 - iii. control device efficiency requirements for HF
 - c. the following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): for HF, Methods 1-4 and 26 or 26A of 40 CFR Part 60, Appendix A; for HCl, Methods 1-4 and 26 or 26A of 40 CFR Part 60, Appendix A. The test method(s) which must be employed to demonstrate compliance with the control efficiency limitations for HF are specified below. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA;
 - d. the test(s) shall be conducted while the emissions unit is operating at its maximum capacity, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency; and
 - e. The control efficiency (i.e., the percent reduction in mass emissions between the inlet and outlet of the control system) shall be determined in accordance with the test methods and procedures specified above or an alternative test protocol



approved by the Ohio EPA. The test methods and procedures selected shall be based on a consideration of the diversity of the organic species present and their total concentration, and on a consideration of the potential presence of interfering gases.

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

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

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

[OAC rule 3745-77-07(C)(1) and PTI #03-17026]

(2) Compliance with the emission limitations in Section b)(1) of these terms and conditions shall be determined in accordance with the following methods:

a. Emission Limitation: 6.54 lbs PE/hr and 28.65 tons PE/yr

Applicable Compliance Method: Compliance with the hourly allowable PE limitation may be determined by multiplying the AP-42, 5th edition, Table 11.3-1 emission factor of 0.37 pound of particulate emissions per ton of brick multiplied by the maximum hourly production rate of 17.66 tons per hour of fired brick. If required, the permittee shall demonstrate compliance with the above emission limit pursuant to Methods 1-5 of 40 CFR Part 60, Appendix A.

Compliance with the annual allowable PE emission limitation shall be assumed as long as compliance with the hourly allowable PE emission limitation is maintained (the annual emission limitation was calculated by multiplying the hourly emission limitation by 8760, and then dividing by 2000).

[OAC rule 3745-77-07(C)(1) and PTI #03-17026]

b. Emission Limitation: 182.6 lbs SO2/hour

Applicable Compliance Method: Compliance with the hourly allowable SO2 emission limitation shall be based on the record keeping and reporting



requirements specified in Section d)(1) of the terms and conditions of this permit. If required, the permittee shall demonstrate compliance with the above emission limit pursuant to Methods 1-4 and 6 of 40 CFR Part 60, Appendix A.

[OAC rule 3745-77-07(C)(1) and PTI #03-17026]

- c. Emission Limitation: 0.43 VOC/hour and 1.88 tons VOC/year

Applicable Compliance Method: Compliance with the hourly allowable VOC emission limitation may be determined by multiplying the AP-42, 5th Edition, Table 11.3-5 emission factor of 0.024 pound of VOC per ton of brick by the maximum hourly production rate of 17.66 tons per hour of fired brick. If required, the permittee shall demonstrate compliance with the above emissions limit pursuant to Methods 1-4 and 18, 25, or 25A, as applicable, of 40 CFR Part 60, Appendix A

Compliance with the annual allowable VOC emission limitation shall be assumed as long as compliance with the hourly allowable VOC emission limitation is maintained (the annual emission limitation was calculated by multiplying the hourly emission limitation by 8760, and then dividing by 2000).

[OAC rule 3745-77-07(C)(1) and PTI #03-17026]

- d. Emission Limitation: 6.18 lbs NOx/hour and 27.07 tons NOx/year

Applicable Compliance Method: Compliance with the hourly allowable NOx emission limitation may be determined by multiplying the AP-42, 5th Edition, Table 11.3-3 emission factor of 0.35 pound of NOx per ton of brick multiplied by the maximum hourly production rate of 17.66 tons per hour of fired brick. If required, the permittee shall demonstrate compliance with the hourly allowable NOx emission limitation above pursuant to Methods 1 through 4 and 7 of 40 CFR, Part 60, Appendix A.

Compliance with the annual allowable NOx emission limitation shall be assumed as long as compliance with the hourly allowable NOx emission limitation is maintained (the annual emission limitation was calculated by multiplying the hourly emission limitation by 8760, and then dividing by 2000).

[OAC rule 3745-77-07(C)(1) and PTI #03-17026]

- e. Emission Limitation: 21.20 lbs CO/hour and 92.86 tons CO/year

Applicable Compliance Method: Compliance with the hourly allowable CO emission limitation may be determined by multiplying the AP-42, 5th Edition, Table 11.3-3 emission factor of 1.20 pound of CO per ton of brick multiplied by the maximum hourly production rate of 17.66 tons per hour of fired brick. If required, the permittee shall demonstrate compliance with the hourly allowable CO emission limitation above pursuant to Methods 1 through 4 and 10 of 40 CFR, Part 60, Appendix A.

Compliance with the annual allowable CO emission limitation shall be assumed as long as compliance with the hourly allowable CO emission limitation is



maintained (the annual emission limitation was calculated by multiplying the hourly emission limitation by 8760, and then dividing by 2000).

[OAC rule 3745-77-07(C)(1) and PTI #03-17026]

- f. Emission Limitation: 2.18 lbs HF/hour and 9.55 tons HF/rolling 12-month period.

Applicable Compliance Method: Compliance with the hourly allowable HF emission limitation above shall be based on the results of emission testing conducted in accordance with Methods 1-4 and 26 or 26A of 40 CFR, Part 60, Appendix A [See Section f)(1)]

Compliance with the annual allowable HF emission limitation shall be assumed as long as compliance with the hourly allowable HF emission limitation is maintained (the annual emission limitation was calculated by multiplying the hourly emission limitation by 8760, and then dividing by 2000).

[OAC rule 3745-77-07(C)(1) and PTI #03-17026]

- g. Emission Limitation: 2.25 lbs HCl/hour and 9.86 tons HCl/year

Applicable Compliance Method: Compliance with the hourly allowable HCl emission limitation above shall be based on the results of emission testing conducted in accordance with Methods 1-4 and 26 or 26A of 40 CFR, Part 60, Appendix A [See Section f)(1)].

Compliance with the annual allowable HCl emission limitation shall be assumed as long as compliance with the hourly allowable HCl emission limitation is maintained (the annual emission limitation was calculated by multiplying the hourly emission limitation by 8760, and then dividing by 2000).

[OAC rule 3745-77-07(C)(1) and PTI #03-17026]

- h. Emission Limitation: 230.0 tons SO₂/12-month rolling period

Applicable Compliance Method: Compliance with the above limitation shall be based on the record keeping requirements specified in Section d)(1) of these terms and conditions.

[OAC rule 3745-77-07(C)(1) and PTI #03-17026]

- g) Miscellaneous Requirements

- (1) Modeling to demonstrate compliance with the Ohio EPA's "Air Toxic Policy" for HF and HCl was not necessary because the increase in 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 listed in OAC rule 3745-114-01 to increase to above 1.0 ton per year may require the permittee to apply for and obtain a new permit to install



12. P011, Shapes Kiln

Operations, Property and/or Equipment Description:

Natural Gas-Fired Periodic Kiln

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

(1) g)(1)

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3) (PTI #03-17026, issued 5/9/06)	8.42 lbs sulfur dioxide (SO ₂)/hr 1.94 lbs hydrogen fluoride (HF)/hr and 0.41 ton HF/yr 0.17 lbs hydrogen chloride (HCl)/hr and 0.04 ton HCl/yr
b.	OAC rule 3745-31-05(D) (PTI #03-17026, issued 5/9/06)	3.08 tons SO ₂ per rolling 12-month period [See b)(2)a.]
c.	OAC rule 3745-17-07(A)	See b)(2)b.
d.	OAC rule 3745-17-11(B)	See b)(2)c.
e.	OAC rule 3745-18-06	See b)(2)d.

(2) Additional Terms and Conditions

a. The SO₂ emissions from this emissions unit shall not exceed 3.08 tons per rolling 12-month period based on raw material input restrictions [See c)(1)].

The 3.08 tons of SO₂ per rolling 12-month period is a federally enforceable limitation established for purposes of avoiding "Prevention of Significant Deterioration" (PSD) applicability.

The rolling 12-month emission limitation for emissions unit P011 was initially established in Permit to Install (PTI) #03-13047 issued on April 26, 2000 and subsequently issued as a correct copy on May 8, 2000, and, as a result, rolling SO₂ emission records exist. The applicant shall use the existing records to determine compliance upon startup under this permit. Therefore, it is not necessary to establish federally enforceable restrictions for the first 12 months of operation under the provisions of this permit.



- 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.
- 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 Marion county.
- d. The emissions limitations established by this rule are less stringent than those established by OAC rule 3745-31-05.
- e. The 1.94 lbs HF/hr, 0.41 ton HF/yr, 0.17 lb HCl/hr, and 0.04 ton HCl/yr emission limitations were established for PTI purposes to reflect the potentials to emit for this emissions unit. Therefore, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with these limitations.

c) Operational Restrictions

- (1) The maximum rolling 12-month process weight rate of raw material for emissions unit P011 is limited by the following equation:

12

$$\sum S3 \leq 3.08$$

M=1

Where,

M = the increment of the rolling 12-month period;

S3 = see d)(1)c. for calculation details

[OAC rule 3745-77-07(A)(1) and PTI #03-17026]

- (2) The permittee shall only burn natural gas in this emissions unit.

[OAC rule 3745-77-07(A)(1) and PTI #03-17026]

d) Monitoring and/or Recordkeeping Requirements

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

- a. the process weight rate of each brick body raw material employed, in lbs;
- b. the sulfur weight % of each brick body raw material processed (based upon a once per quarter test of each brick body raw material);
- c. the monthly SO2 emissions, in tons, calculated as follows:

$$S = [\text{Sum } (S_i \times W_i)] \times 1.998 / 2000$$



Where:

S = monthly SO2 emissions

Si = weight % sulfur of the specific raw material

Wi = specific raw material usage

i = raw material type

- d. The rolling, 12-month summation of the monthly SO2 emissions, in tons;
- e. The number of hours the emissions unit was in operation; and
- f. The average hourly SO2 emissions $[d)(1)c.] \times 2000 / d)(1)e.]$, in pounds (average).

[OAC rule 3745-77-07(C)(1) and PTI #03-17026]

- (2) 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 #03-17026]

e) 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 #03-17026]

- (2) The permittee shall submit deviation (excursion) reports which identify all exceedances of the following:

- a. the rolling, 12-month emission limitation for SO2; and
- b. the rolling, 12-month process weight rate restriction in c)(1).

These reports shall be submitted in accordance with the Standard Terms and Conditions of this permit.

[OAC rule 3745-77-07(C)(1) and PTI #03-17026]

f) Testing Requirements

- (1) Compliance with the emission limitations in Section b)(1) of these terms and conditions shall be determined in accordance with the following methods:

- a. Emission Limitation: 8.42 lbs SO2/hr

Applicable Compliance Method: Compliance with the hourly allowable SO2 emission limitation shall be based on the record keeping requirements specified



in Section d)(1) of the terms and conditions of this permit. If required, compliance with the hourly allowable SO₂ emission limitation shall also be based on the results of emission testing conducted in accordance with Method 6 of 40 CFR, Part 60, Appendix A.

[OAC rule 3745-77-07(C)(1) and PTI #03-17026]

- b. Emission Limitation: 1.94 lbs HF/hr

Applicable Compliance Method: The hourly HF limitation is based on the emissions unit's potential to emit*. If required, compliance with the hourly allowable HF emission limitation shall be based on the results of emission testing shall be conducted in accordance with Methods 26 or 26A of 40 CFR, Part 60, Appendix A.

*The emissions unit involves a batch operation and the potential to emit is calculated by multiplying a maximum batch process weight of 9,200 lbs, a maximum fluorine (F) level of 0.07 % (by weight)**, an emission factor of 1.053 lb HF/lb F (based on stoichiometry & 100 % conversion), and dividing by a 3.5 hours. (HF will be emitted over 3.5 hours of the total batch time).

**The fluorine level of 0.07% (by weight) is the maximum amount that could be released from raw materials processed in the kiln.

[OAC rule 3745-77-07(C)(1) and PTI #03-17026]

- c. Emission Limitation: 0.41 ton HF/yr

Applicable Compliance Method: The annual HF limitation is based on the emissions unit's potential to emit*. Therefore, no annual record keeping, reporting, or compliance method calculations are required to demonstrate compliance with this limitation.

*The emissions unit involves a batch operation and the potential to emit is calculated by multiplying a maximum processing capacity of 122 batches/yr, an emission factor of 6.8 lbs HF/batch (1.94 lbs HF/hr times 3.5 hours, see f)(1)b. above) and dividing by 2000 lbs/ton.

[OAC rule 3745-77-07(C)(1) and PTI #03-17026]

- d. Emission Limitation: 0.17 lbs HCl/hr

Applicable Compliance Method: The hourly HCl limitation is based on the emissions unit's potential to emit*. If required, compliance with the hourly allowable HCl emission limitation shall be based on the results of emission testing shall be conducted in accordance with Methods 26 or 26A of 40 CFR, Part 60, Appendix A.

*The emissions unit involves a batch operation and the potential to emit is calculated by multiplying a maximum batch process weight of 9,200 lbs, a maximum chlorine (Cl) level of 0.0062 % (by weight)**, an emission factor of



1.028 lb HCl/lb Cl (based on stoichiometry & 100 % conversion), and dividing by a 3.5 hours. (HCl will be emitted over 3.5 hours of the total batch time).

**The chlorine level of 0.0062% (by weight) is the maximum amount that could be released from raw materials processed in the kiln.

[OAC rule 3745-77-07(C)(1) and PTI #03-17026]

- e. Emission Limitation: 0.04 ton HCl/yr

Applicable Compliance Method: The annual HCl limitation is based on the emissions unit's potential to emit*. Therefore, no annual record keeping, reporting, or compliance method calculations are required to demonstrate compliance with this limitation.

*The emissions unit involves a batch operation and the potential to emit is calculated by multiplying a maximum processing capacity of 122 batches/yr, an emission factor of 0.6 lbs HF/batch (0.17 lbs HCl/hr times 3.5 hours, see f)(1)d. above) and dividing by 2000 lbs/ton.

[OAC rule 3745-77-07(C)(1) and PTI #03-17026]

- f. Emission Limitation: 3.08 tons SO₂ per 12-month rolling period

Applicable Compliance Method: Compliance with the above limitation shall be based on the record keeping requirements specified in Section d)(1) of these terms and conditions.

[OAC rule 3745-77-07(C)(1) and PTI #03-17026]

- g) Miscellaneous Requirements

- (1) Modeling to demonstrate compliance with the Ohio EPA's "Air Toxic Policy" for HF and HCl was not necessary because the increase in 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 listed in OAC rule 3745-114-01 to increase to above 1.0 ton per year may require the permittee to apply for and obtain a new permit to install.



13. P901, Raw Material Processing

Operations, Property and/or Equipment Description:

Feed hopper, primary crusher, storage bins, screens (3), secondary crusher/grinder and associated conveyor systems

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

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3) (PTI #03-16085, issued 1/25/05)	2.25 lbs PE/hr and 9.86 tons per year PE (from the baghouse exhaust stack that serves the primary crusher, storage bins, hammer mills, screens and conveying systems) 0.44 ton fugitive PE/yr See b)(2)a. and b)(2)b.
b.	OAC rule 3745-17-07(A)	none [See b)(2)c.]
c.	OAC rule 3745-17-11(B)	none [See b)(2)c.]
d.	40 CFR Part 60, Subpart OOO	0.05 gram of PE per dry standard cubic meter (dscm) or [0.022 grains PE/dry standard cubic foot (dscf)], from the exhaust stack of the baghouse that serves the primary crusher, storage bins, hammer mills, screens and conveying systems No visible fugitive emissions from any building opening Not greater than 7% opacity from the baghouse exhaust stack
e.	OAC rule 3745-17-07(B)	See b)(2)d.
f.	OAC rule 3745-17-08(B)	See b)(2)e.



(2) Additional Terms and Conditions

- a. Visible emissions of fugitive dust from the feed hopper shall not exceed 20% opacity as a 3-minute average.
- b. The permittee shall use a baghouse and an enclosed building to control all of the PE from the primary crusher, storage bins, hammer mills, screens and conveying systems that are associated with this emissions unit.
- c. The emissions limitations established by this rule are less stringent than those established by OAC rule 3745-31-05(A)(3).
- d. This emissions unit is exempt from the visible particulate emission limitation specified in OAC rule 3745-17-07(B), pursuant to OAC rule 3745-17-07(B)(11)(e).
- e. This facility is not located within an "Appendix A" area as identified in OAC rule 3745-17-08. Therefore, pursuant to OAC rule 3745-17-08(A), this emissions unit is exempt from the requirements of OAC rule 3745-17-08(B).

c) Operational Restrictions

- (1) The pressure drop across the baghouse that controls this emissions unit shall be maintained within the range of 2 to 6 inches of water while the emissions unit is in operation.

[OAC rule 3745-77-07(A)(1) and PTI #03-16085]

d) Monitoring and/or Recordkeeping Requirements

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

[OAC rule 3745-77-07(C)(1) and PTI #03-16085]

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

- a. The location and color of the emissions;
- b. Whether the emissions are representative of normal operations;
- c. If the emissions are not representative of normal operations, the cause of the abnormal emissions;
- d. The total duration of any visible emission incident; and



- e. Any corrective actions taken to eliminate the visible emissions.

[OAC rule 3745-77-07(C)(1) and PTI #03-16085]

e) Reporting Requirements

- (1) The permittee shall submit quarterly pressure drop deviation (excursion) reports that identify that all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above. These reports shall be submitted in accordance with the Standard Terms and Conditions of this permit.

[OAC rule 3745-77-07(C)(1) and PTI #03-16085]

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

[OAC rule 3745-77-07(C)(1) and PTI #03-16085]

f) Testing Requirements

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

- a. Testing shall be conducted in accordance with the provisions of 40 CFR Part 60, Subpart OOO, Section 60.675.
- b. The emissions testing shall be conducted at such times as may be required by the Ohio Environmental Protection Agency, Division of Air Pollution Control.
- c. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate for particulate emissions from the baghouse (lb/hr and gr/dscm), and the VE limitations for the baghouse exhaust stack and the feed hopper.
- d. The following test methods shall be employed to demonstrate compliance with the allowable mass emission rates and inlet testing for the baghouse:
 - i. For PE: Methods 1 - 5, 40 CFR, Part 60, Appendix A; and
 - ii. For the VE limitations from the baghouse exhaust stack and feed hopper: Method 9, 40 CFR, Part 60, Appendix A.

Alternative U.S.EPA-approved test methods may be used with prior approval from the Ohio EPA.

- e. The tests shall be conducted while the emissions unit is operating at its maximum capacity, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency.



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

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

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following completion of the test(s).

[OAC rule 3745-77-07(C)(1) and PTI #03-16085]

- (2) During the emission testing of this emissions unit, the following additional information shall be obtained:
 - a. The pressure drop across the particulate control device, in inches of water; and
 - b. The tons of product produced.

[OAC rule 3745-77-07(C)(1) and PTI #03-16085]

- (3) Compliance with the emission limitations specified in Section b)(1) of the terms and conditions of this permit shall be determined in accordance with the following methods:
 - a. Emission Limitation: 2.25 pounds PE/hour and 9.86 tons PE/year from the baghouse exhaust stack

Applicable Compliance Method: Compliance with the hourly allowable PE limitation shall be based upon the results of emission testing conducted in accordance with Methods 1- 5 of 40 CFR, Part 60, Appendix A.

Compliance with the annual allowable PE limitation shall be assumed as long as compliance with the hourly allowable PE limitation is maintained (the annual emission limitation was calculated by multiplying the hourly emission limitation by 8760 and dividing by 2000).

[OAC rule 3745-77-07(C)(1) and PTI #03-16085]

- b. Emission Limitation: 0.44 ton fugitive PE/year

Applicable Compliance Method: Compliance with the annual allowable PE limitation of 0.44 ton of fugitive PE/year shall be assumed as long as compliance with the opacity limitation from the building where this emissions unit is located is maintained.



[OAC rule 3745-77-07(C)(1) and PTI #03-16085]

- c. Emission Limitation: Visible emissions of fugitive dust from the feed hopper shall not exceed 20% opacity as a 3-minute average.

Applicable Compliance Method: Compliance shall demonstrated by testing required in section f)(1).

[OAC rule 3745-77-07(C)(1) and PTI #03-16085]

- d. Emission Limitation: 0.05 gram of PE per dry standard cubic meter (dscm) or [0.022 grains PE/dry standard cubic foot (dscf)], from the exhaust stack of the baghouse that serves the primary crusher, storage bins, hammer mills, screens and conveying systems

Applicable Compliance Method: Compliance shall demonstrated by testing required in section f)(1).

[OAC rule 3745-77-07(C)(1) and PTI #03-16085]

- e. Emission Limitation: Not greater than 7% opacity from the baghouse exhaust stack

Applicable Compliance Method: Compliance shall demonstrated by testing required in section f)(1).

[OAC rule 3745-77-07(C)(1) and PTI #03-16085]

- f. Emission Limitation: No visible fugitive emissions from any building opening

Applicable Compliance Method: If required, the permittee shall demonstrate compliance with the no visible emissions limitation above pursuant to Method 22 of 40 CFR, Part 60, Appendix A.

[OAC rule 3745-77-07(C)(1) and PTI #03-16085]

g) Miscellaneous Requirements

- (1) None.



14. P902, Sand Storage Bins

Operations, Property and/or Equipment Description:

(4) sand storage bins

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

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3)(A)(3) (PTI #03-13047, issued 5/8/00)	1.96 lbs of particulate emissions (PE)/hr and 8.59 tons of PE (from the exhaust stack of the baghouse) 0.44 ton of fugitive PE/yr no visible fugitive emissions from any building opening See b)(2)a.
b.	OAC rule 3745-17-07(A)	none [See b)(2)b.]
c.	OAC rule 3745-17-11(B)	none [See b)(2)c.]
d.	OAC rule 3745-17-07(B)	none [See b)(2)d.]
e.	OAC rule 3745-17-08(B)	none [See b)(2)e.]

(2) Additional Terms and Conditions

a. The permittee shall use a baghouse and an enclosed building to control all of the PE from this emissions unit.

b. This emissions unit is exempt from the visible emissions limitation 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.

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 because the facility is located in Marion County.



- d. This emissions unit is exempt from the visible emissions limitation specified in OAC rule 3745-17-07(B), pursuant to OAC rule 3745-17-07(B)(11)(e).
 - e. This facility is not located within an "Appendix A" area as identified in OAC rule 3745-17-08. Therefore, pursuant to OAC rule 3745-17-08(A), this emissions unit is exempt from the requirements of OAC rule 3745-17-08(B).
- c) **Operational Restrictions**
- (1) The pressure drop across the baghouse shall be maintained within the range of 1 to 6 inches of water while the emissions unit is in operation.

[OAC rule 3745-77-07(C)(1) and PTI #03-13047]
- d) **Monitoring and/or Recordkeeping Requirements**
- (1) The permittee shall properly operate and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a weekly basis.

[OAC rule 3745-77-07(C)(1) and PTI #03-13047]
- e) **Reporting Requirements**
- (1) The permittee shall submit quarterly pressure drop deviation (excursion) reports that identify each day during which the pressure drop across the baghouse did not comply with the allowable range specified above.

[OAC rule 3745-77-07(C)(1) and PTI #03-13047]
 - (2) These reports are due by the dates specified in the Standard Terms and Conditions of this permit.

[OAC rule 3745-77-07(C)(1) and PTI #03-13047]
- f) **Testing Requirements**
- (1) Compliance with the emission limitations in Section b)(1) of these terms and conditions shall be determined in accordance with the following methods:
 - a. **Emission Limitations:** 1.96 pounds of PE/hour and 8.59 tons of PE/year (from the baghouse exhaust stack)

Applicable Compliance Method: If required, the permittee shall demonstrate compliance with the hourly allowable PE limitation above pursuant to Methods 1 - 5 of 40 CFR, Part 60, Appendix A.

Compliance with the annual allowable PE limitation shall be assumed as long as compliance with the hourly allowable PE limitation is maintained (the annual emission limitation was calculated by multiplying the hourly emission limitation by 8760 and dividing by 2000).



[OAC rule 3745-77-07(C)(1) and PTI #03-13047]

- b. Emission Limitation: 0.44 ton of fugitive PE/year

Applicable Compliance Method: Compliance with the annual allowable PE limitation of 0.44 ton of fugitive PE/year shall be assumed as long as compliance with the opacity limitation from the building where this emissions unit is located is maintained.

[OAC rule 3745-77-07(C)(1) and PTI #03-13047]

- c. Emission Limitation: no visible fugitive emissions from any building opening

Applicable Compliance Method: If required, the permittee shall demonstrate compliance with the no visible emissions limitation above pursuant to Method 22 of 40 CFR, Part 60, Appendix A.

[OAC rule 3745-77-07(C)(1) and PTI #03-13047]

- g) Miscellaneous Requirements

- (1) None.



15. P903, Mold Line Sand System

Operations, Property and/or Equipment Description:

(2) Deboer mixers and DeBoer molded brick machine

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

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3) (PTI #03-13047, issued 5/8/00)	3.92 lbs of particulate emissions (PE)/hr and 17.18 tons of PE/yr (from the exhaust stack of the baghouse serving the Deboer mixers and the DeBoer molded brick machine) 0.44 ton of fugitive PE/yr no visible fugitive emissions from any building opening See b)(2)a.
b.	OAC rule 3745-17-07(A)	none [See b)(2)b.]
c.	OAC rule 3745-17-11(B)	none [See b)(2)c.]
d.	OAC rule 3745-17-07(B)	none [See b)(2)d.]
e.	OAC rule 3745-17-08(B)	none [See b)(2)e.]

(2) Additional Terms and Conditions

a. The permittee shall use a baghouse and an enclosed building to control all of the PE from the Deboer mixers and from the DeBoer molded brick machine that are associated with this emissions unit.

b. This emissions unit is exempt from the visible emissions 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.

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 because the facility is located in Marion County.

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

c) Operational Restrictions

- (1) The pressure drop across the baghouse shall be maintained within the range of 2 to 6 inches of water while the emissions unit is in operation.

[OAC rule 3745-77-07(A)(1) and PTI #03-13047]

d) Monitoring and/or Recordkeeping Requirements

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

[OAC rule 3745-77-07(C)(1) and PTI #03-13047]

e) Reporting Requirements

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

[OAC rule 3745-77-07(C)(1) and PTI #03-13047]

- (2) These reports are due by the dates specified in the Standard Terms and Conditions of this permit.

[OAC rule 3745-77-07(C)(1) and PTI #03-13047]

f) Testing Requirements

- (1) Compliance with the emission limitations in Section b)(1) of these terms and conditions shall be determined in accordance with the following methods:

- a. Emission Limitations: 3.92 pounds of PE/hour and 17.18 tons of PE/year (from the baghouse exhaust stack)

Applicable Compliance Method: If required, the permittee shall demonstrate compliance with the hourly allowable PE limitation above pursuant to Methods 1 - 5 of 40 CFR, Part 60, Appendix A.



Compliance with the annual allowable PE limitation shall be assumed as long as compliance with the hourly allowable PE limitation is maintained (the annual emission limitation was calculated by multiplying the hourly emission limitation by 8760 and dividing by 2000).

[OAC rule 3745-77-07(C)(1) and PTI #03-13047]

- b. Emission Limitation: 0.44 ton of fugitive PE/year

Applicable Compliance Method: Compliance with the annual allowable PE limitation of 0.44 ton of fugitive PE/year shall be assumed as long as compliance with the opacity limitation from the building where this emissions unit is located is maintained.

[OAC rule 3745-77-07(C)(1) and PTI #03-13047]

- c. Emission Limitation: no visible fugitive emissions from any building opening

Applicable Compliance Method: If required, the permittee shall demonstrate compliance with the no visible emissions limitation above pursuant to Method 22 of 40 CFR, Part 60, Appendix A.

[OAC rule 3745-77-07(C)(1) and PTI #03-13047]

- g) Miscellaneous Requirements

- (1) None.



16. P904, Extrusion Line Sand System

Operations, Property and/or Equipment Description:

Pugmill, vacuum chamber, extruder, vibratory sand feeders, sand blaster and slurry tanks

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

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3) (PTI #03-13047, issued 5/8/00)	3.92 lbs of particulate emissions (PE)/hr and 17.18 tons of PE/yr (from the exhaust stack of the baghouse serving the DeBoer mixers and the DeBoer molded brick machine) 0.44 ton of fugitive PE/yr no visible fugitive emissions from any building opening See b)(2)a.
b.	OAC rule 3745-17-07(A)	none [See b)(2)b.]
c.	OAC rule 3745-17-11(B)	none [See b)(2)c.]
d.	OAC rule 3745-17-07(B)	none [See b)(2)d.]
e.	OAC rule 3745-17-08(B)	none [See b)(2)e.]

(2) Additional Terms and Conditions

- a. The permittee shall use a baghouse and an enclosed building to control all of the PE from this emissions unit.
- b. This emissions unit is exempt from the visible emissions 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.
- 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 because the facility is located in Marion County.



- d. This emissions unit is exempt from the visible emissions limitation specified in OAC rule 3745-17-07(B), pursuant to OAC rule 3745-17-07(B)(11)(e).
 - e. This facility is not located within an "Appendix A" area as identified in OAC rule 3745-17-08. Therefore, pursuant to OAC rule 3745-17-08(A), this emission unit is exempt from the requirements of OAC rule 3745-17-08(B).
- c) **Operational Restrictions**
- (1) The pressure drop across the baghouse shall be maintained within the range of 2 to 6 inches of water while the emissions unit is in operation.

[OAC rule 3745-77-07(A)(1) and PTI #03-13047]
- d) **Monitoring and/or Recordkeeping Requirements**
- (1) The permittee shall properly operate and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a weekly basis.

[OAC rule 3745-77-07(C)(1) and PTI #03-13047]
- e) **Reporting Requirements**
- (1) The permittee shall submit quarterly pressure drop deviation (excursion) reports that identify each day during which the pressure drop across the baghouse did not comply with the allowable range specified above.

[OAC rule 3745-77-07(C)(1) and PTI #03-13047]
 - (2) These reports are due by the dates specified in the Standard Terms and Conditions of this permit.

[OAC rule 3745-77-07(C)(1) and PTI #03-13047]
- f) **Testing Requirements**
- (1) Compliance with the emission limitations in Section b)(1) of these terms and conditions shall be determined in accordance with the following methods:
 - a. **Emission Limitations:** 3.92 pounds of PE/hour and 17.18 tons of PE/year (from the baghouse exhaust stack)

Applicable Compliance Method: If required, the permittee shall demonstrate compliance with the hourly allowable PE limitation above pursuant to Methods 1 - 5 of 40 CFR, Part 60, Appendix A.

Compliance with the annual allowable PE limitation shall be assumed as long as compliance with the hourly allowable PE limitation is maintained (the annual emission limitation was calculated by multiplying the hourly emission limitation by 8760 and dividing by 2000).



[OAC rule 3745-77-07(C)(1) and PTI #03-13047]

- b. Emission Limitation: 0.44 ton of fugitive PE/year

Applicable Compliance Method: Compliance with the annual allowable PE limitation of 0.44 ton of fugitive PE/year shall be assumed as long as compliance with the opacity limitation from the building where this emissions unit is located is maintained.

[OAC rule 3745-77-07(C)(1) and PTI #03-13047]

- c. Emission Limitation: no visible fugitive emissions from any building opening

Applicable Compliance Method: If required, the permittee shall demonstrate compliance with the no visible emissions limitation above pursuant to Method 22 of 40 CFR, Part 60, Appendix A.

[OAC rule 3745-77-07(C)(1) and PTI #03-13047]

- g) Miscellaneous Requirements

- (1) None.



17. P905, Setting Machine

Operations, Property and/or Equipment Description:

Sets Brick on Kiln Cars

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

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3) (PTI #03-13047, issued 5/8/00)	2.96 lbs of particulate emissions (PE)/hr and 12.96 tons of PE/yr (from the baghouse exhaust stack) 0.44 ton of fugitive PE/yr no visible fugitive emissions from any building opening See b)(2)a.
b.	OAC rule 3745-17-07(A)	none [See b)(2)b.]
c.	OAC rule 3745-17-11(B)	none [See b)(2)c.]
d.	OAC rule 3745-17-07(B)	none [See b)(2)d.]
e.	OAC rule 3745-17-08(B)	none [See b)(2)e.]

(2) Additional Terms and Conditions

a. The permittee shall control all the PE through the use of a baghouse and an enclosed building.

b. This emissions unit is exempt from the visible emissions 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.

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 because the facility is located in Marion County.



- d. This emissions unit is exempt from the visible emissions limitation specified in OAC rule 3745-17-07(B), pursuant to OAC rule 3745-17-07(B)(11)(e).
 - e. This facility is not located within an "Appendix A" area as identified in OAC rule 3745-17-08. Therefore, pursuant to OAC rule 3745-17-08(A), this emissions unit is exempt from the requirements of OAC rule 3745-17-08(B).
- c) **Operational Restrictions**
- (1) The pressure drop across the baghouse shall be maintained within the range of 2 to 6 inches of water while the emissions unit is in operation.

[OAC rule 3745-77-07(A)(1) and PTI #03-13047]
- d) **Monitoring and/or Recordkeeping Requirements**
- (1) The permittee shall properly operate and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a weekly basis.

[OAC rule 3745-77-07(C)(1) and PTI #03-13047]
- e) **Reporting Requirements**
- (1) The permittee shall submit quarterly pressure drop deviation (excursion) reports that identify each day during which the pressure drop across the baghouse did not comply with the allowable range specified above.

[OAC rule 3745-77-07(C)(1) and PTI #03-13047]
 - (2) These reports are due by the dates specified in the Standard Terms and Conditions of this permit.

[OAC rule 3745-77-07(C)(1) and PTI #03-13047]
- f) **Testing Requirements**
- (1) Compliance with the emission limitations in Section b)(1) of these terms and conditions shall be determined in accordance with the following methods:
 - a. **Emission Limitations:** 2.96 pounds of PE/hour and 12.96 tons of PE/year (from the baghouse exhaust stack)

Applicable Compliance Method: If required, the permittee shall demonstrate compliance with the hourly allowable PE limitation above pursuant to Methods 1 - 5 of 40 CFR, Part 60, Appendix A.

Compliance with the annual allowable PE limitation shall be assumed as long as compliance with the hourly allowable PE limitation is maintained (the annual emission limitation was calculated by multiplying the hourly emission limitation by 8760 and dividing by 2000).



[OAC rule 3745-77-07(C)(1) and PTI #03-13047]

- b. Emission Limitation: 0.44 ton of fugitive PE/year

Applicable Compliance Method: Compliance with the annual allowable PE limitation of 0.44 ton of fugitive PE/year shall be assumed as long as compliance with the opacity limitation from the building where this emissions unit is located is maintained.

[OAC rule 3745-77-07(C)(1) and PTI #03-13047]

- c. Emission Limitation: no visible fugitive emissions from any building opening

Applicable Compliance Method: If required, the permittee shall demonstrate compliance with the no visible emissions limitation above pursuant to Method 22 of 40 CFR, Part 60, Appendix A.

[OAC rule 3745-77-07(C)(1) and PTI #03-13047]

- g) Miscellaneous Requirements

- (1) None.



18. P906, Mixing and Blending

Operations, Property and/or Equipment Description:

Agemac 046 Mixer

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

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3) (PTI #03-13047, issued 5/8/00)	1.80 lbs of particulate emissions (PE)/hr, 7.88 tons of PE/yr (from the exhaust stack of the baghouse serving the Agemac 046 mixer, surge bins, additive feeders and associated conveyors) 0.44 ton of fugitive PE/yr no visible fugitive emissions from any building opening See b)(2)a.
b.	OAC rule 3745-17-07(A)	none [See b)(2)b.]
c.	OAC rule 3745-17-11(B)	none [See b)(2)c.]
d.	OAC rule 3745-17-07(B)	none [See b)(2)d.]
e.	OAC rule 3745-17-08(B)	none [See b)(2)e.]

(2) Additional Terms and Conditions

- a. The permittee shall use a baghouse and an enclosed building to control all of the PE from this emissions unit.
- b. This emissions unit is exempt from the visible emissions 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.
- 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 because the facility is located in Marion County.



- d. This emissions unit is exempt from the visible emissions limitation specified in OAC rule 3745-17-07(B), pursuant to OAC rule 3745-17-07(B)(11)(e).
 - e. This facility is not located within an "Appendix A" area as identified in OAC rule 3745-17-08. Therefore, pursuant to OAC rule 3745-17-08(A), this emissions unit is exempt from the requirements of OAC rule 3745-17-08(B).
- c) **Operational Restrictions**
- (1) The pressure drop across the baghouse shall be maintained within the range of 2 to 6 inches of water while the emissions unit is in operation.

[OAC rule 3745-77-07(A)(1) and PTI #03-13047]
- d) **Monitoring and/or Recordkeeping Requirements**
- (1) The permittee shall properly operate and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a weekly basis.

[OAC rule 3745-77-07(C)(1) and PTI #03-13047]
- e) **Reporting Requirements**
- (1) The permittee shall submit quarterly pressure drop deviation (excursion) reports that identify each day during which the pressure drop across the baghouse did not comply with the allowable range specified above.

[OAC rule 3745-77-07(C)(1) and PTI #03-13047]
 - (2) These reports are due by the dates specified in the Standard Terms and Conditions of this permit.

[OAC rule 3745-77-07(C)(1) and PTI #03-13047]
- f) **Testing Requirements**
- (1) Compliance with the emission limitations in Section b)(1) of these terms and conditions shall be determined in accordance with the following methods:
 - a. **Emission Limitations:** 1.80 pounds of PE/hour and 7.88 tons of PE/year (from the baghouse exhaust stack)

Applicable Compliance Method: If required, the permittee shall demonstrate compliance with the hourly allowable PE limitation above pursuant to Methods 1 - 5 of 40 CFR, Part 60, Appendix A.

Compliance with the annual allowable PE limitation shall be assumed as long as compliance with the hourly allowable PE limitation is maintained (the annual emission limitation was calculated by multiplying the hourly emission limitation by 8760 and dividing by 2000).



[OAC rule 3745-77-07(C)(1) and PTI #03-13047]

- b. Emission Limitation: 0.44 ton of fugitive PE/year

Applicable Compliance Method: Compliance with the annual allowable PE limitation of 0.44 ton fugitive PE/year shall be assumed as long as compliance with the opacity limitation from the building where this emissions unit is located is maintained.

[OAC rule 3745-77-07(C)(1) and PTI #03-13047]

- c. Emission Limitation: no visible fugitive emissions from any building opening

Applicable Compliance Method: If required, the permittee shall demonstrate compliance with the no visible emissions limitation above pursuant to Method 22 of 40 CFR, Part 60, Appendix A.

[OAC rule 3745-77-07(C)(1) and PTI #03-13047]

- g) Miscellaneous Requirements

- (1) None.



19. P907, Sand Mixer #1

Operations, Property and/or Equipment Description:

Sand Mixer #1

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

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3) (PTI #03-13047, issued 5/8/00)	1.96 lbs of particulate emissions (PE)/hr and 8.59 tons of PE/yr (from the baghouse exhaust stack) 0.44 ton of fugitive PE/yr no visible fugitive emissions from any building opening See b)(2)a.
b.	OAC rule 3745-17-07(A)	none [See b)(2)b.]
c.	OAC rule 3745-17-11(B)	none [See b)(2)c.]
d.	OAC rule 3745-17-07(B)	none [See b)(2)d.]
e.	OAC rule 3745-17-08(B)	none [See b)(2)e.]

(2) Additional Terms and Conditions

a. The permittee shall use a baghouse and an enclosed building to control all the PE from this emissions unit.

b. This emissions unit is exempt from the visible emissions 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.

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 because the facility is located in Marion County.



- d. This emissions unit is exempt from the visible emissions limitation specified in OAC rule 3745-17-07(B), pursuant to OAC rule 3745-17-07(B)(11)(e).
 - e. This facility is not located within an "Appendix A" area as identified in OAC rule 3745-17-08. Therefore, pursuant to OAC rule 3745-17-08(A), this emissions unit is exempt from the requirements of OAC rule 3745-17-08(B).
- c) **Operational Restrictions**
- (1) The pressure drop across the baghouse shall be maintained within the range of 1 to 6 inches of water while the emissions unit is in operation.

[OAC rule 3745-77-07(A)(1) and PTI #03-13047]
- d) **Monitoring and/or Recordkeeping Requirements**
- (1) The permittee shall properly operate and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a weekly basis.

[OAC rule 3745-77-07(C)(1) and PTI #03-13047]
- e) **Reporting Requirements**
- (1) The permittee shall submit quarterly pressure drop deviation (excursion) reports that identify each day during which the pressure drop across the baghouse did not comply with the allowable range specified above.

[OAC rule 3745-77-07(C)(1) and PTI #03-13047]
 - (2) These reports are due by the dates specified in the Standard Terms and Conditions of this permit.

[OAC rule 3745-77-07(C)(1) and PTI #03-13047]
- f) **Testing Requirements**
- (1) Compliance with the emission limitations in Section b)(1) of these terms and conditions shall be determined in accordance with the following methods:
 - a. **Emission Limitations:** 1.96 pounds of PE/hour and 8.59 tons of PE/year (from the baghouse exhaust stack)

Applicable Compliance Method: If required, the permittee shall demonstrate compliance with the hourly allowable PE limitation above pursuant to Methods 1 - 5 of 40 CFR, Part 60, Appendix A.

Compliance with the annual allowable PE limitation shall be assumed as long as compliance with the hourly allowable PE limitation is maintained (the annual emission limitation was calculated by multiplying the hourly emission limitation by 8760 and dividing by 2000).



[OAC rule 3745-77-07(C)(1) and PTI #03-13047]

- b. Emission Limitation: 0.44 ton of fugitive PE/year
- c. Applicable Compliance Method: Compliance with the annual allowable PE limitation of 0.44 ton fugitive PE/year shall be assumed as long as compliance with the opacity limitation from the building where this emissions unit is located is maintained.

[OAC rule 3745-77-07(C)(1) and PTI #03-13047]

- d. Emission Limitation: no visible fugitive emissions from any building opening

Applicable Compliance Method: If required, the permittee shall demonstrate compliance with the no visible emissions limitation above pursuant to Method 22 of 40 CFR, Part 60, Appendix A.

[OAC rule 3745-77-07(C)(1) and PTI #03-13047]

g) Miscellaneous Requirements

- (1) None.



20. P908, Sand Mixer #2

Operations, Property and/or Equipment Description:

Sand Mixer #2

- a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.
 - (1) None.
- b) Applicable Emissions Limitations and/or Control Requirements
 - (1) The specific operations(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3) (PTI #03-13047, issued 5/8/00)	1.96 lbs of particulate emissions (PE)/hr and 8.59 tons of PE/yr (from the baghouse exhaust stack) 0.44 ton of fugitive PE/yr no visible fugitive emissions from any building opening See b)(2)a.
b.	OAC rule 3745-17-07(A)	none [See b)(2)b.]
c.	OAC rule 3745-17-11(B)	none [See b)(2)c.]
d.	OAC rule 3745-17-07(B)	none [See b)(2)d.]
e.	OAC rule 3745-17-08(B)	none [See b)(2)e.]

(2) Additional Terms and Conditions

- a. The permittee shall use a baghouse and an enclosed building to control all the PE from this emissions unit.
- b. This emissions unit is exempt from the visible emissions 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.
- 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 because the facility is located in Marion County.



- d. This emissions unit is exempt from the visible emissions limitation specified in OAC rule 3745-17-07(B), pursuant to OAC rule 3745-17-07(B)(11)(e).
 - e. This facility is not located within an "Appendix A" area as identified in OAC rule 3745-17-08. Therefore, pursuant to OAC rule 3745-17-08(A), this emissions unit is exempt from the requirements of OAC rule 3745-17-08(B).
- c) Operational Restrictions
- (1) The pressure drop across the baghouse shall be maintained within the range of 1 to 6 inches of water while the emissions unit is in operation.
 - (2) [OAC rule 3745-77-07(A)(1) and PTI #03-13047]
- d) Monitoring and/or Recordkeeping Requirements
- (1) The permittee shall properly operate and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a weekly basis.

[OAC rule 3745-77-07(C)(1) and PTI #03-13047]
- e) Reporting Requirements
- (1) The permittee shall submit quarterly pressure drop deviation (excursion) reports that identify each day during which the pressure drop across the baghouse did not comply with the allowable range specified above.

[OAC rule 3745-77-07(C)(1) and PTI #03-13047]
 - (2) These reports are due by the dates specified in the Standard Terms and Conditions of this permit.
 - (3) [OAC rule 3745-77-07(C)(1) and PTI #03-13047]
- f) Testing Requirements
- (1) Compliance with the emission limitations in Section b)(1) of these terms and conditions shall be determined in accordance with the following methods:
 - a. Emission Limitations: 1.96 pounds of PE/hour and 8.59 tons of PE/year (from the baghouse exhaust stack)

Applicable Compliance Method: If required, the permittee shall demonstrate compliance with the hourly allowable PE limitation above pursuant to Methods 1 - 5 of 40 CFR, Part 60, Appendix A.

Compliance with the annual allowable PE limitation shall be assumed as long as compliance with the hourly allowable PE limitation is maintained (the annual emission limitation was calculated by multiplying the hourly emission limitation by 8760 and dividing by 2000).



[OAC rule 3745-77-07(C)(1) and PTI #03-13047]

- b. Emission Limitation: 0.44 ton of fugitive PE/year
- c. Applicable Compliance Method: Compliance with the annual allowable PE limitation of 0.44 ton fugitive PE/year shall be assumed as long as compliance with the opacity limitation from the building where this emissions unit is located is maintained.

[OAC rule 3745-77-07(C)(1) and PTI #03-13047]

- d. Emission Limitation: no visible fugitive emissions from any building opening

Applicable Compliance Method: If required, the permittee shall demonstrate compliance with the no visible emissions limitation above pursuant to Method 22 of 40 CFR, Part 60, Appendix A.

[OAC rule 3745-77-07(C)(1) and PTI #03-13047]

g) Miscellaneous Requirements

- (1) None.