OhioEPA

State of Ohio Environmental Protection Agency

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

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

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

11/14/01

CERTIFIED MAIL

RE: Final Title V Chapter 3745-77 permit

03-51-00-0051
Glen-Gery Corp. Iberia Plant
Greg Burns
Glen-Gery Corporation - Iberia
P.O. Box 207, County Road 9
Iberia, OH 43325

Dear Greg Burns:

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

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

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

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

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

Very truly yours,

Thomas G. Rigo

Thomas G. Rigo, Manager
Field Operations and Permit Section
Division of Air Pollution Control

cc: Northwest District Office
File, DAPC PMU

State of Ohio Environmental Protection Agency

FINAL TITLE V PERMIT

Issue Date: **11/14/01**	Effective Date: **11/14/01**	Expiration Date: **11/14/06**

This document constitutes issuance of a Title V permit for Facility ID: 03-51-00-0051 to:
Glen-Gery Corp. Iberia Plant
Glen-Gery Corporation - Iberia
P.O. Box 207 - County Road 9
Iberia, OH 43325

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

F001 (Plant Storage Piles)
Raw material storage piles (Clay and Shale)

F002 (Roadway and Parking Areas)
Plant Roads and Parking lots (excluding quarry roadways)

F003 (Caledonia Crusher)
Crusher

P001 (Periodic Dryer #1)
Dry Green Brick Prior to Firing (1 mmBTU/hr natural gas fired direct fired brick dryers)

P002 (Periodic Dryer #2)
Dry Green Brick Prior to Firing (1 mmBTU/hr natural gas fired direct fired brick dryers)

P003 (Periodic Dryer #3)
Dry Green Brick Prior to Firing (1 mmBTU/hr natural gas fired direct fired brick dryers)

P004 (Periodic Dryer #4)
Dry Green Brick Prior to Firing (1 mmBTU/hr natural gas fired direct fired brick dryers)

P005 (Periodic Dryer #5)
Dry Green Brick Prior to Firing (1 mmBTU/hr natural gas fired direct fired brick dryers)

P006 (Periodic Dryer #6)
Dry Green Brick Prior to Firing (1 mmBTU/hr natural gas fired direct fired brick dryers)

P007 (Periodic Dryer #7)
Dry Green Brick Prior to Firing (1 mmBTU/hr natural gas fired direct fired brick dryers)

P008 (Tunnel Kiln)
47.6 mmBTU/hr natural gas fired tunnel kiln

P011 (Shapes Kiln)
Natural Gas Fired Periodic Kiln

P901 (Raw Material Processing)
Feed hopper, primary crusher, storage bins, screens and associated conveying system

P902 (Sand Storage Bins)
(4) sand storage bins

P903 (Mold Line Sand System)
(2) Deboer mixers and DeBoer molded brick machine

P904 (Extrusion Line Sand System)
Pugmill, vacuum chamber, extruder, vibratory sand feeders, sand blaster and slurry tanks

P905 (Setting Machine)
Sets Brick on Kiln Cars

P906 (Mixing and Blending)
Agemac 046 Mixer

P907 (Sand Mixer #1)
Sand Mixer #1

P908 (Sand Mixer #2)
Sand Mixer #2

You will be contacted approximately eighteen (18) months prior to the expiration date regarding the renewal of this permit. If you are not contacted, please contact the appropriate Ohio EPA District Office or local air agency listed below. This permit and the authorization to operate the air contaminant sources (emissions units) at this facility shall expire at midnight on the expiration date shown above. If a renewal permit is not issued prior to the expiration date, the permittee may continue to operate pursuant to OAC rule 3745-77-04(A) and in accordance with the terms of this permit beyond the expiration date, provided that a complete renewal application is submitted no earlier than eighteen (18) months and no later than one-hundred eighty (180) days prior to the expiration date.

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

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

OHIO ENVIRONMENTAL PROTECTION AGENCY

Christopher Jones
Director

PART I - GENERAL TERMS AND CONDITIONS

A. State and Federally Enforceable Section

1. Monitoring and Related Recordkeeping and Reporting Requirements

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

i. The date, place (as defined in the permit), and time of sampling or measurements.
ii. The date(s) analyses were performed.
iii. The company or entity that performed the analyses.
iv. The analytical techniques or methods used.
v. The results of such analyses.
vi. The operating conditions existing at the time of sampling or measurement.

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.

c. Except as may otherwise be provided in the terms and conditions for a specific emissions unit, the permittee shall submit required reports in the following manner:

i. Reports of any required monitoring and/or recordkeeping information shall be submitted to the appropriate Ohio EPA District Office or local air agency.
ii. Quarterly written reports of (i) any deviations from federally enforceable <u>emission limitations</u>, <u>operational restrictions</u>, <u>and control device operating parameter limitations</u>, excluding deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06, that have been detected by the testing, monitoring and recordkeeping requirements specified in this permit, (ii) the probable cause of such deviations, and (iii) any corrective actions or preventive measures taken, shall be promptly made to the appropriate Ohio EPA District Office or local air agency. These quarterly written reports shall satisfy the requirements of OAC rule 3745-77-07(A)(3)(c)(i) and (ii) pertaining to the submission of monitoring reports every six months and OAC rule 3745-77-07(A)(3)(c)(iii) pertaining to the prompt reporting of all deviations except malfunctions, which shall be reported in accordance with OAC rule 3745-15-06. The written reports shall be submitted quarterly, i.e., by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. (These quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06.) See B.8 below if no deviations occurred during the quarter.
iii. Written reports, which identify any deviations from the federally enforceable <u>monitoring, recordkeeping, and reporting requirements</u> contained in this permit shall be submitted to

the appropriate Ohio EPA District Office or local air agency every six months, i.e., by January 31 and July 31 of each year for the previous six calendar months. These semi-annual written reports shall satisfy the requirements of OAC rule 3745-77-07(A)(3)(c)(i) and (ii) pertaining to the reporting of any deviations related to the monitoring, recordkeeping, and reporting requirements. If no deviations occurred during a six-month period, the permittee shall submit a semi-annual report, which states that no deviations occurred during that period.

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

2. Scheduled Maintenance/Malfunction Reporting

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. The malfunction, i.e., upset, 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. (The definition of an upset condition shall be the same as that used in OAC rule 3745-15-06(B)(1) for a malfunction.) The verbal and written reports submitted pursuant to OAC rule 3745-15-06 shall satisfy the requirements of OAC rule 3745-77-07(A)(3)(c)(iii) pertaining to the prompt reporting of deviations caused by malfunctions or upsets.

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 emission unit(s) that is (are) served by such control system(s).

3. Risk Management Plans

If the permittee is required to 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"), the permittee shall comply with the requirement to register such a plan.

4. Title IV Provisions

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

5. Severability Clause

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

6. General Requirements

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

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

c. This permit may be modified, reopened, revoked, or revoked and reissued, for cause. 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.

7. Fees

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

8. Marketable Permit Programs

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

9. Reasonably Anticipated Operating Scenarios

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

10. Reopening for Cause

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

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

11. Federal and State Enforceability

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

12. Compliance Requirements

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

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

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

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

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

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

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

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

ii. An explanation of why any dates in any schedule of compliance were not or will not be met, and any preventive or corrective measures adopted.

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

i. Compliance certifications shall be submitted annually on a calendar year basis. The annual certification shall be submitted on or before April 30th of each year during the permit term.

ii. Compliance certifications shall include the following:

(a) An identification of each term or condition of this permit that is the basis of the certification.

(b) The permittee's current compliance status.

(c) Whether compliance was continuous or intermittent.

(d) The method(s) used for determining the compliance status of the source currently and over the required reporting period.

(e) Such other facts as the Director of the Ohio EPA may require in the permit to determine the compliance status of the source.

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

13. Permit Shield

a. Compliance with the terms and conditions of this permit (including terms and conditions established for alternate operating scenarios, emissions trading, and emissions averaging, but

excluding terms and conditions for which the permit shield is expressly prohibited under OAC rule 3745-77-07) shall be deemed compliance with the applicable requirements identified and addressed in this permit as of the date of permit issuance.

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

14. Operational Flexibility

The permittee is authorized to make the changes identified in OAC rule 3745-77-07(H)(1)(a) to (H)(1)(c) within the permitted stationary source without obtaining a permit revision, if such change is not a modification under any provision of Title I of the Act [as defined in OAC rule 3745-77-01(JJ)], and does not result in an exceedance of the emissions allowed under this permit (whether expressed therein as a rate of emissions or in terms of total emissions), and the permittee provides the Administrator of the U.S. EPA and the appropriate Ohio EPA District Office or local air agency with written notification within a minimum of seven days in advance of the proposed changes, unless the change is associated with, or in response to, emergency conditions. If less than seven days notice is provided because of a need to respond more quickly to such emergency conditions, the permittee shall provide notice to the Administrator of the U.S. EPA and the appropriate District Office of the Ohio EPA or local air agency as soon as possible after learning of the need to make the change. The notification shall contain the items required under OAC rule 3745-77-07(H)(2)(d).

15. Emergencies

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

16. Off Permit Changes

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

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

b. The permittee provides contemporaneous written notice of the change to the director and the administrator, except that no such notice shall be required for changes that qualify as insignificant emission levels or activities as defined in OAC rule 3745-77-01(U). Such written notice shall describe each such change, the date of such change, any change in emissions or

pollutants emitted, and any federally applicable requirement that would apply as a result of the change;

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

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

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

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

(For further clarification, the permittee can refer to Engineering Guide #63 that is available in their STARSHIP software package.)

17. Compliance Method Requirements

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

18. Insignificant Activity

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

B. State Only Enforceable Section

1. 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.

2. Reporting Requirements Related to Monitoring and Recordkeeping Requirements

The permittee shall submit required reports in the following manner:

a. Reports of any required monitoring and/or recordkeeping 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 (a) any deviations (excursions) from emission limitations, operational restrictions, and control device operating parameter limitations that have been detected by the testing, monitoring, and recordkeeping requirements specified in this permit, (b) the probable cause of such deviations, and (c) 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. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted quarterly, i.e., by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. (These quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06.)

3. Records Retention Requirements

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

4. 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.

5. 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).

6. 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.

7. 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.

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

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

Part II - Specific Facility Terms and Conditions

A. State and Federally Enforcable Section

None

B. State Only Enforceable Section

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

Z016 - Caledonia diesel storage tank; and
Z017 - diesel storage tank.

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

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Plant Storage Piles (F001)

Activity Description: Raw material storage piles (Clay and Shale)

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
raw material storage piles (clay and shale)	OAC rule 3745-31-05 (PTI #03-13047)	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 A.I.2.a through A.I.2.e)
	OAC rule 3745-17-07(B)	none (See A.I.2.f.)
	OAC rule 3745-17-08(B)	None (See A.I.2.g.)

2. Additional Terms and Conditions

2.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

2.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.

2.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.

2. Additional Terms and Conditions (continued)

2.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.

2.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.

2.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).

2.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).

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The following Monitoring and/or Record keeping Requirements shall apply to this emissions unit:

1.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: Daily

1.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: Daily

1.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.

1.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.

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

1.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 A.III.1.g.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.

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation reports that identify any of the following occurrences for this emissions unit:

1.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

1.b each instance when a control measure, that was to be implemented as a result of an inspection, was not implemented.

2. These reports are due by the date described in Part I - General Terms and Conditions of this permit under section (A)(1).

V. Testing Requirements

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

V. Testing Requirements (continued)

1.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)]:

annual emissions (tons) = maximum annual throughput (tons/year) x PE/2000

Where:

PE (emission factor, in lb/ton) = PM10 x 2 = 0.1721 lb PE/ton

PM10 (lb PM10/ton) = LI/LO + WE + A = 0.086 lb PM10/ton

LI/LO = 0.00224 x [(mean wind speed)/d]^51.3 / [(% moisture)/2]^1.4

WE = 0.025 x [(% silt) / 1.5] x [(storage days / 90] x [dry days / 235] x [% windy days / 15]

A = .05 x [(% silt) / 1.5] x [dry days / 235) x (vehicle activity factor)

mean wind speed = 10 miles/hour

% wind > 12 = 32

% moisture = 6.5%

storage days = 365

% silt = 0.5%

dry days = 225

vehicle activity factor = 1.0

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

1.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.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Roadway and Parking Areas (F002)

Activity Description: Plant Roads and Parking lots (excluding quarry roadways)

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
paved and unpaved plant roadways and parking lots (excluding quarry roadways)	OAC rule 3745-31-05 (PTI # 03-13047)	58.73 tons fugitive particulate emissions (PE)/year See A.I.2.a. best available technology that is sufficient to minimize or eliminate visible emissions of fugitive dust (see A.I.2.b)
	OAC rule 3745-17-07(B)	none (See A.I.2.c.)
	OAC rule 3745-17-08(B)	none (See A.I.2.d.)

2. Additional Terms and Conditions

2.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.

2.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, at a minimum, every week. 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.

2. Additional Terms and Conditions (continued)

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, at a minimum, 3 times a week. 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.

iii. A maximum speed limit of 15 miles per hour shall be posted and enforced on the property.

iv. Open bodied vehicles transporting materials likely to become airborne shall be covered at all times.

2.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).

2.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).

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain records which include the following information for the paved roadways and parking areas:

1.a Each date the paved surfaces were swept.

1.b For each date in 1.a, the portions of the paved surfaces that were swept.

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

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

2.a Each date dust suppressants were applied to the unpaved surfaces.

2.b For each date in 2.a, the portions of unpaved surfaces that were treated with dust suppressants.

2.c For each date in 2.a, the application rate of water and any chemical additives (gallons of each per square yard).

2.d The name of the equipment operator responsible for each application of the dust suppressants.

IV. Reporting Requirements

None

V. Testing Requirements

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

V. Testing Requirements (continued)

1.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].

1.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.

1.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.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Caledonia Crusher (F003)

Activity Description: Crusher

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
Caledonia crusher	OAC rule 3745-17-07(B)	none (See A.I.2.a.)
	OAC rule 3745-17-08(B)	none (See A.I.2.b.)

2. Additional Terms and Conditions

2.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).

2.b 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).

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Periodic Dryer #1 (P001)

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

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
dryer #1 (1 mmBtu/hr natural gas, direct fired brick dryer)	OAC rule 3745-31-05 (PTI #03-13047)	0.30 lb particulate emissions (PE)/hr, 1.31 TPY PE
		0.38 lb nitrogen oxides (NOx)/hr, 1.66 TPY NOx
		1.21 lbs carbon monoxide (CO)/hr, 5.30 TPY CO
	OAC rule 3745-17-07(A)	none (See A.I.2.a.)
	OAC rule 3745-17-11(B)	none (See A.I.2.b.)

2. Additional Terms and Conditions

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

2.b The uncontrolled mass rate of particulate emissions from this emissions unit is less than 10 lbs/hr. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(ii), Figure II of OAC rule 3745-17-11 does not apply. Also, Table I does not apply because the facility is located in Marion County.

2.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.

II. Operational Restrictions

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

III. Monitoring and/or Record Keeping Requirements

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

IV. Reporting Requirements

1. The permittee shall submit 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.

V. Testing Requirements

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

1.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.

1.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.

1.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.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Periodic Dryer #2 (P002)

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

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
dryer #2 (1 mmBtu/hr natural gas, direct fired brick dryer)	OAC rule 3745-31-05 (PTI #03-13047)	0.30 lb particulate emissions (PE)/hr, 1.31 TPY PE
		0.38 lb nitrogen oxides (NOx)/hr, 1.66 TPY NOx
		1.21 lbs carbon monoxide (CO)/hr, 5.30 TPY CO
	OAC rule 3745-17-07(A)	none (See A.I.2.a.)
	OAC rule 3745-17-11(B)	none (See A.I.2.b.)

2. Additional Terms and Conditions

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

2.b The uncontrolled mass rate of particulate emissions from this emissions unit is less than 10 lbs/hr. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(ii), Figure II of OAC rule 3745-17-11 does not apply. Also, Table I does not apply because the facility is located in Marion County.

2.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.

II. Operational Restrictions

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

III. Monitoring and/or Record Keeping Requirements

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

IV. Reporting Requirements

1. The permittee shall submit 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.

V. Testing Requirements

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

1.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.

1.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.

1.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.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Periodic Dryer #3 (P003)

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

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
dryer #3 (1 mmBtu/hr natural gas, direct fired brick dryer)	OAC rule 3745-31-05 (PTI #03-13047)	0.30 lb particulate emissions (PE)/hr, 1.31 TPY PE
		0.38 lb nitrogen oxides (NOx)/hr, 1.66 TPY NOx
		1.21 lbs carbon monoxide (CO)/hr, 5.30 TPY CO
	OAC rule 3745-17-07(A)	none (See A.I.2.a.)
	OAC rule 3745-17-11(B)	none (See A.I.2.b.)

2. Additional Terms and Conditions

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

2.b The uncontrolled mass rate of particulate emissions from this emissions unit is less than 10 lbs/hr. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(ii), Figure II of OAC rule 3745-17-11 does not apply. Also, Table I does not apply because the facility is located in Marion County.

2.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.

II. Operational Restrictions

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

III. Monitoring and/or Record Keeping Requirements

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

IV. Reporting Requirements

1. The permittee shall submit 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.

V. Testing Requirements

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

1.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.

1.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.

1.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.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Periodic Dryer #4 (P004)

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

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
dryer #4 (1 mmBtu/hr natural gas, direct fired brick dryer)	OAC rule 3745-31-05 (PTI #03-13047)	0.30 lb particulate emissions (PE)/hr, 1.31 TPY PE
		0.38 lb nitrogen oxides (NOx)/hr, 1.66 TPY NOx
		1.21 lbs carbon monoxide (CO)/hr, 5.30 TPY CO
	OAC rule 3745-17-07(A)	none (See A.I.2.a.)
	OAC rule 3745-17-11(B)	none (See A.I.2.b.)

2. Additional Terms and Conditions

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

2.b The uncontrolled mass rate of particulate emissions from this emissions unit is less than 10 lbs/hr. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(ii), Figure II of OAC rule 3745-17-11 does not apply. Also, Table I does not apply because the facility is located in Marion County.

2.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.

II. Operational Restrictions

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

III. Monitoring and/or Record Keeping Requirements

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

IV. Reporting Requirements

1. The permittee shall submit 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.

V. Testing Requirements

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

1.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.

1.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.

1.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.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Periodic Dryer #5 (P005)

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

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
dryer #5 (1 mmBtu/hr natural gas, direct fired brick dryer)	OAC rule 3745-31-05 (PTI #03-13047)	0.30 lb particulate emissions (PE)/hr, 1.31 TPY PE
		0.38 lb nitrogen oxides (NOx)/hr, 1.66 TPY NOx
		1.21 lbs carbon monoxide (CO)/hr, 5.30 TPY CO
	OAC rule 3745-17-07(A)	none (See A.I.2.a.)
	OAC rule 3745-17-11(B)	none (See A.I.2.b.)

2. Additional Terms and Conditions

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

2.b The uncontrolled mass rate of particulate emissions from this emissions unit is less than 10 lbs/hr. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(ii), Figure II of OAC rule 3745-17-11 does not apply. Also, Table I does not apply because the facility is located in Marion County.

2.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.

II. Operational Restrictions

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

III. Monitoring and/or Record Keeping Requirements

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

IV. Reporting Requirements

1. The permittee shall submit 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.

V. Testing Requirements

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

1.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.

1.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.

1.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.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Periodic Dryer #6 (P006)

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

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
dryer #6 (1 mmBtu/hr natural gas, direct fired brick dryer)	OAC rule 3745-31-05 (PTI #03-13047)	0.30 lb particulate emissions (PE)/hr, 1.31 TPY PE
		0.38 lb nitrogen oxides (NOx)/hr, 1.66 TPY NOx
		1.21 lbs carbon monoxide (CO)/hr, 5.30 TPY CO
	OAC rule 3745-17-07(A)	none (See A.I.2.a.)
	OAC rule 3745-17-11(B)	none (See A.I.2.b.)

2. Additional Terms and Conditions

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

2.b The uncontrolled mass rate of particulate emissions from this emissions unit is less than 10 lbs/hr. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(ii), Figure II of OAC rule 3745-17-11 does not apply. Also, Table I does not apply because the facility is located in Marion County.

2.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.

II. Operational Restrictions

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

III. Monitoring and/or Record Keeping Requirements

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

IV. Reporting Requirements

1. The permittee shall submit 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.

V. Testing Requirements

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

1.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.

1.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.

1.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.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Periodic Dryer #7 (P007)

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

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
dryer #7 (1 mmBtu/hr natural gas, direct fired brick dryer)	OAC rule 3745-31-05 (PTI #03-13047)	0.30 lb particulate emissions (PE)/hr, 1.31 TPY PE
		0.38 lb nitrogen oxides (NOx)/hr, 1.66 TPY NOx
		1.21 lbs carbon monoxide (CO)/hr, 5.30 TPY CO
	OAC rule 3745-17-07(A)	none (See A.I.2.a.)
	OAC rule 3745-17-11(B)	none (See A.I.2.b.)

2. Additional Terms and Conditions

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

2.b The uncontrolled mass rate of particulate emissions from this emissions unit is less than 10 lbs/hr. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(ii), Figure II of OAC rule 3745-17-11 does not apply. Also, Table I does not apply because the facility is located in Marion County.

2.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.

II. Operational Restrictions

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

III. Monitoring and/or Record Keeping Requirements

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

IV. Reporting Requirements

1. The permittee shall submit 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.

V. Testing Requirements

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

1.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.

1.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.

1.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.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Tunnel Kiln (P008)

Activity Description: 47.6 mmBTU/hr natural gas fired tunnel kiln

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
47.6 mmBtu/hr, natural gas, direct-fired tunnel kiln	OAC rule 3745-31-05 (PTI #03-13047)	6.54 lbs particulate emissions (PE)/hr, 28.65 TPY PE
		0.43 lb volatile organic compounds (VOC)/hr, 1.88 TPY VOC
		182.60 lbs sulfur dioxide (SO2)/hr
		6.18 lbs nitrogen oxides (NOx)/hr, 27.07 TPY NOx
		21.20 lbs carbon monoxide (CO)/hr, 92.86 TPY CO
		5.68 lbs hydrogen fluoride (HF)/hr, 24.88 TPY HF
		3.0 lbs hydrogen chloride (HCl)/hr, 13.15 TPY HCl
		230.0 tons SO2/year, based upon a rolling, 12-month summation of the monthly SO2 emission rates (see A.I.2.d)
	OAC rule 3745-17-07(A)	none (See A.I.2.a.)
	OAC rule 3745-17-11(B)	none (See A.I.2.b.)
	OAC rule 3745-18-06	See A.I.2.c.

2. Additional Terms and Conditions

2.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.

2.b The uncontrolled mass rate of particulate emissions from this emissions unit is less than 10 lbs/hr. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(ii), Figure II of OAC rule 3745-17-11 does not apply. Also, Table I does not apply because the facility is located in Marion County.

2. Additional Terms and Conditions (continued)

2.c The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05.

2.d The monthly SO2 emissions from this emissions unit are directly related to the monthly process weight rates of raw materials and the sulfur content of raw materials processed. Limiting SO2 emissions from the kiln effectively restricts kiln production. Monthly SO2 emission rates shall be calculated as described in section A.III.1 of this permit.

2.e The 6.54 lbs PE/hr, 28.65 tons PE/yr, 0.43 lb VOC/hr, 1.88 tons VOC/yr, 21.2 lbs CO/hr, 92.86 CO tons/yr, 3.0 lbs HCl/hr and 13.15 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.

II. Operational Restrictions

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

III. Monitoring and/or Record Keeping Requirements

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

1.a The process weight rate of each brick body raw material employed.

1.b The weight fraction of sulfur in each brick body raw material processed.

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

1.c The SO2 emissions from the raw materials, in tons, calculated as follows:

i. for each brick body raw material where stack testing emission data is not available:

S1 (tons/month) = weight fraction of sulfur in each raw material x 1.998 (conversion factor) x Pr

where:

Pr = the monthly process weight rate (in tons) of each raw material

S1 = SO2 emissions (in tons per month)

ii. for each brick body raw material where stack testing emission data is available:

S2 = SO2 emission rate (based on emission testing data), in lbs/ton x Pr / 2000

where:

Pr = the monthly process weight rate (in tons) of raw material

S2 = SO2 emissions (in tons per month);

iii. for all brick body raw materials:

S3 = [summation of S1i] for i = 1, 2,..n + [summation of S2j] for j = 1, 2, ...m

where:

i = a brick body raw material for which stack testing emission data is not available

j = a brick body raw material for which stack testing emission data is available

S1i = the SO2 emission rate (tons/month) for raw material i

S2j = the SO2 emission rate (tons/month) for raw material j

S3 = total monthly SO2 emissions, in tons

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

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

1.f The average hourly SO2 emissions [S3 (from Section 1.c.iii) x 2000/1.e], in pounds (average).

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.

IV. Reporting Requirements

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

2. The permittee shall submit quarterly deviation (excursion) reports that identify the following:

a. all exceedances of the rolling, 12-month SO2 emission limitation of 230 tons; and

b. all exceedances of the hourly SO2 emission limitation of 182.60 lbs.

IV. Reporting Requirements (continued)

3. These reports as denoted in term A.IV.2. are due by the dates specified in Part 1 - General Terms and Conditions of this permit under section (A)(1).

V. Testing Requirements

1. The permittee shall conduct, or have conducted, emission testing for this emissions unit while both this emissions unit and emissions unit P011 are running simultaneously, in accordance with the following requirements:

1.a The emission testing shall be conducted 6 months prior to permit expiration.

1.b The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rates for SO2, HF and PE.

1.c The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): for SO2, Method 6 of 40 CFR, Part 60, Appendix A; for HF, Methods 26 or 26A of 40 CFR, Part 60, Appendix A; and for PE, Methods 1 - 5 of 40 CFR, Part 60, Appendix A. Alternative U.S. EPA-approved test methods may be used with prior approval from the Ohio EPA.

1.d The test(s) shall be conducted while this emissions unit and emissions unit P011 are operating at their maximum capacities to generate SO2, HF and PE, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency.

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

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

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

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

2.a Emission Limitations:
6.54 pounds PE/hour and 28.65 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 0.37 pound of PE per ton of brick by the maximum hourly production rate of 17.66 TPH of fired brick. Compliance shall also 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 then dividing by 2000).

V. Testing Requirements (continued)

2.b Emission Limitation:
182.6 pounds SO2/hour

Applicable Compliance Method:
Compliance with the hourly allowable SO2 emission limitation shall be based on the record keeping and reporting requirments specified in Section A.III.1 of the terms and conditions of this permit. 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.

2.c Emission Limitations:
0.43 pound 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 TPH of fired brick.

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).

If required, the permittee shall demonstrate compliance with the hourly allowable VOC emission limitation above pursuant to Methods 18, 25, or 25A, as appropriate, of 40 CFR, Part 60, Appendix A.

2.d Emission Limitations:
6.18 pounds 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 TPH of fired brick.

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 above pursuant to Methods 1 through 4 and 7 of 40 CFR, Part 60, Appendix A.

2.e Emission Limitations:
21.20 pounds 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 TPH of fired brick.

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 above pursuant to Methods 1 through 4 and 10 of 40 CFR, Part 60, Appendix A.

V. Testing Requirements (continued)

2.f Emission Limitations:
5.68 pounds HF/hour and 24.88 tons HF/year

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 26 or 26A of 40 CFR, Part 60, Appendix A.

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).

2.g Emission Limitations:
3.0 pounds HCl/hour and 13.15 tons HCl/year

Applicable Compliance Method:
Compliance with the hourly allowable HCl emission limitation may be determined by multiplying the AP-42, 5th Edition, Table 11.3-4 emission factor of 0.17 pound of HCl per ton of brick multiplied by the maximum hourly production rate of 17.66 TPH of fired brick.

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).

If required, the permittee shall demonstrate compliance with the hourly allowable HCl emission limitation above pursuant to Methods 26 or 26A of 40 CFR, Part 60, Appendix A.

2.h Emission Limitation:
230.0 per tons SO2 per rolling, 12-month period

Applicable Compliance Method:
Compliance with the limitation above shall be based on the record keeping requirements specified in Section A.III.1 of the terms and conditions of this permit.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
47.6 mmBtu/hr, natural gas, direct fired tunnel kiln	None	None

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permit to install for this emissions unit (P008) was evaluated based on the actual materials and the design parameters of the emissions unit's exhaust system, as specified by the permittee in the permit to install application. The Ohio EPA's "Review of New Sources of Air Toxic Emissions" policy ("Air Toxic Policy") was applied for each pollutant emitted by this emissions unit using data from the permit to install application and the SCREEN 3.0 model (or other Ohio EPA approved model). The predicted 1-hour maximum ground-level concentration from the use of the SCREEN 3.0 model was compared to the Maximum Acceptable Ground-Level Concentration (MAGLC). The following summarizes the results of the modeling for the "worst case" pollutant(s):

Pollutant: sulfur dioxide

Maximum Hourly Emission Rate: 182.60 lbs/hr

Modelled 24-Hour Concentration: 43.99 ug/m3

24-Hour Incremental Impact: 45.5 ug/m3

Pollutant: sulfur dioxide

Maximum Hourly Emission Rate: 182.60 ug/m3

Modelled 3-Hour Concentration: 166.80 ug/m3

Acceptable Incremental Impact: 256.0 ug/m3

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

Pollutant: sulfur dioxide

Long Term Average Emission Rate: 53.77 lbs/hr*

Modelled Annual Concentration: 1.87 ug/m3

Acceptable Incremental Impact: 10 ug/m3

*The 53.77 lb/hr emission rate is a long term average, suitable for modeling annual impacts. This is acceptable for sources with highly variable SO2 emissions. Higher emission rates were modeled for the shorter averaging times.

Pollutant: hydrogen fluoride

TLV: 2.5 ug/m3

Maximum Hourly Emission Rate: 7.62 lbs/hr

Predicted 1-Hour Maximum Ground-Level
Concentration: 10.29 ug/m3

MAGLC: 25 ug/m3

Pollutant: hydrogen fluoride

TLV: 2.5 ug/m3

Maximum Hourly Emission Rate: 7.62 lbs/hr

Predicted Monthly Maximum Ground-Level
Concentration: 0.44 ug/m3

Acceptable Incremental Impact (as 30-day average): 0.50 ug/m3

2. Physical changes to or changes in the method of operation of the emissions unit after its installation or modification could affect the parameters used to determine whether or not the "Air Toxic Policy" is satisfied. Consequently, prior to making a change that could impact such parameters, the permittee shall conduct an evaluation to determine that the "Air Toxic Policy" will still be still satisfied. If, upon evaluation, the permittee determines that the "Air Toxic Policy" will not be satisfied, the permittee will not make the change. Changes that can affect the parameters used in applying the "Air Toxic Policy" include the following:

a. changes in the composition of the materials used, or the use of new materials, that would result in the emission of a compound with a lower Threshold Limit Value (TLV), as indicated in the most recent version of the handbook entitled "American Conference of Governmental Industrial Hygienists (ACGIH)," than the lowest TLV value previously modeled;

b. changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant with a listed TLV that was proposed in the application and modeled; and

c. physical changes to the emissions unit or its exhaust parameters (e.g., increased/ decreased exhaust flow, changes in stack height, changes in stack diameter, etc.).

If the permittee determines that the "Air Toxic Policy" will be satisfied for the above changes, the Ohio EPA will not consider the change(s) to be a "modification" under OAC rule 3745-31-01(VV)(1)(a)(ii), and a modification of the existing permit to install will not be required. If the change(s) is (are) defined as a modification under other provisions of the modification definition (other than (VV)(1)(a)(ii)), then the permittee shall obtain a final permit to install prior to the change.

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

3. The permittee shall collect, record, and retain the following information when it conducts evaluations to determine that the changed emissions unit will still satisfy the "Air Toxic Policy:"

a. a description of the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.);

b. documentation of its evaluation and determination that the changed emissions unit still satisfies the "Air Toxic Policy"; and

c. where computer modeling is performed, a copy of the resulting computer model runs that show the results of the application of the "Air Toxic Policy" for the change.

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Shapes Kiln (P011)

Activity Description: Natural Gas Fired Periodic Kiln

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
Shapes natural gas, direct-fired, batch brick kiln	OAC rule 3745-31-05 (A) (PTI #03-13047)	8.42 lbs sulfur dioxide (SO2)/hr
		1.94 lbs hydrogen fluoride (HF)/hr, 8.50 TPY HF
	OAC rule 3745-17-07(A)	none (See A.I.2.a.)
	OAC rule 3745-17-11(B)	none (See A.I.2.b.)
	OAC rule 3745-31-05 (D) (PTI #03-13047)	3.08 tons SO2 per year, based upon a rolling, 12-month summation of the monthly SO2 emissions (See A.I.2.c.)
	OAC rule 3745-18-06	See A.I.2.d.

2. Additional Terms and Conditions

2.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.

2.b The uncontrolled mass rate of particulate emissions from this emissions unit is less than 10 lbs/hr. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(ii), Figure II of OAC rule 3745-17-11 does not apply. Also, Table I does not apply because the facility is located in Marion County.

2.c The monthly SO2 emissions from this emissions unit are directly related to the monthly process weight rates of raw materials and the sulfur content of raw materials processed. Therefore, limiting SO2 emissions from the kiln effectively restricts kiln production. (The monthly SO2 emission rates shall be calculated as described in section A.III.1 of this permit.)

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

II. Operational Restrictions

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

III. Monitoring and/or Record Keeping Requirements

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

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

1.a The process weight rate of each brick body raw material employed.

1.b The weight fraction of sulfur in each brick body raw material processed.

1.c The SO2 emissions from the raw materials, in tons, calculated as follows:

i. for each brick body raw material where stack testing emission data is not available:

S1 (tons/month) = weight fraction of sulfur in each raw material x 1.998 (conversion factor) x Pr

where:

Pr = the monthly process weight rate (in tons) of each raw material

S1 = SO2 emissions (in tons per month)

ii. for each brick body raw material where stack testing emission data is available:

S2 = SO2 emission rate (based on emission testing data), in lbs/ton x Pr / 2000

where:

Pr = the monthly process weight rate (in tons) of raw material

S2 = SO2 emissions (in tons per month);

iii. for all brick body raw materials:

S3 = [summation of S1i] for i = 1, 2,..n + [summation of S2j] for j = 1, 2, ...m

where:

i = a brick body raw material for which stack testing emission data is not available

j = a brick body raw material for which stack testing emission data is available

S1i = the SO2 emission rate (tons/month) for raw material i

S2j = the SO2 emission rate (tons/month) for raw material j

S3 = total monthly SO2 emissions, in tons

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

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

1.f The average hourly SO2 emissions [S3 (from Section 1.c.iii) x 2000/1.e], in pounds (average).

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.

IV. Reporting Requirements

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

IV. Reporting Requirements (continued)

2. The permittee shall submit quarterly deviation (excursion) reports that identify the following:

a. all exceedances of the rolling, 12-month SO2 emission limitation of 3.08 tons; and

b. all exceedances of the hourly SO2 emission limitation of 8.42 lbs.

3. These reports as denoted in term A.IV.2. are due by the dates specified in Part 1 - General Terms and Conditions of this permit under section (A)(1).

V. Testing Requirements

1. The permittee shall conduct, or have conducted, emission testing for this emissions unit, while both this emissions unit and emissions unit P008 are running simultaneously, in accordance with the following requirements:

1.a The emission testing shall be conducted 6 months prior to permit expiration.

1.b The emission testing shall be conducted to demonstrate compliance with the allowable mass emissions rates for SO2, HF and PE (to confirm that the uncontrolled mass rate of particulate emissions is less than 10 lbs/hr) at maximum capacity.

1.c The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): for SO2, Method 6 of 40 CFR, Part 60, Appendix A; for HF, Methods 26 or 26A of 40 CFR, Part 60, Appendix A; and for PE, Methods 1 - 5 of 40 CFR, Part 60, Appendix A. Alternative U.S. EPA-approved test methods may be used with prior approval from the Ohio EPA.

1.d The test(s) shall be conducted while this emissions unit and this emissions unit P008 are operating at their maximum capacities to generate SO2, HF and PE, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency.

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

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

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

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

2.a Emission Limitation: 8.42 pounds SO2/hour

Applicable Compliance Method:
Compliance with the hourly allowabe SO2 emission limitation shall be based on the record keeping and reporting requirments specified in Section A.III.1 of the terms and conditions of this permit. Compliance shall also be based on the results of emission testing conducted in accordance with Method 6 of 40 CFR, Part 60, Appendix A.

V. Testing Requirements (continued)

2.b Emission Limitations: 1.94 pounds HF/hour and 8.50 tons HF/year

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 26 or 26A of 40 CFR, Part 60, Appendix A.

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).

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
Shapes natural gas, direct-fired, batch brick kiln	None	None

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permit to install for this emissions unit (P011) was evaluated based on the actual materials and the design parameters of the emissions unit's exhaust system, as specified by the permittee in the permit to install application. The Ohio EPA's "Review of New Sources of Air Toxic Emissions" policy ("Air Toxic Policy") was applied for each pollutant emitted by this emissions unit using data from the permit to install application and the SCREEN 3.0 model (or other Ohio EPA approved model). The predicted 1-hour maximum ground-level concentration from the use of the SCREEN 3.0 model was compared to the Maximum Acceptable Ground-Level Concentration (MAGLC). The following summarizes the results of the modeling for the "worst case" pollutant(s):

Pollutant: sulfur dioxide

Maximum Hourly Emission Rate: 182.60 lbs/hr

Modelled 24-Hour Concentration: 43.99 ug/m3

24-Hour Incremental Impact: 45.5 ug/m3

Pollutant: sulfur dioxide

Maximum Hourly Emission Rate: 182.60 lbs/hr

Modelled 3-Hour Concentration: 166.80 ug/m3

Acceptable Incremental Impact: 256.0 ug/m3

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

Pollutant: sulfur dioxide

Long Term Average Emission Rate: 53.77 lbs/hr*

Modelled Annual Concentration: 1.87 ug/m3

Acceptable Incremental Impact: 10 ug/m3

*The 53.77 lb/hr emission rate is a long term average, suitable for modeling annual impacts. This is acceptable for sources with highly variable SO2 emissions. Higher emission rates were modeled for the shorter averaging times.

Pollutant: hydrogen fluoride

TLV: 2.5 ug/m3

Maximum Hourly Emission Rate: 7.62 lbs/hr

Predicted 1-Hour Maximum Ground-Level
Concentration: 10.29 ug/m3

MAGLC: 25 ug/m3

Pollutant: hydrogen fluoride

TLV: 2.5 ug/m3

Maximum Hourly Emission Rate: 7.62 lbs/hr

Predicted Monthly Maximum Ground-Level
Concentration: 0.44 ug/m3

Acceptable Incremental Impact (as 30-day average): 0.50 ug/m3

2. Physical changes to or changes in the method of operation of the emissions unit after its installation or modification could affect the parameters used to determine whether or not the "Air Toxic Policy" is satisfied. Consequently, prior to making a change that could impact such parameters, the permittee shall conduct an evaluation to determine that the "Air Toxic Policy" will still be still satisfied. If, upon evaluation, the permittee determines that the "Air Toxic Policy" will not be satisfied, the permittee will not make the change. Changes that can affect the parameters used in applying the "Air Toxic Policy" include the following:

a. changes in the composition of the materials used, or the use of new materials, that would result in the emission of a compound with a lower Threshold Limit Value (TLV), as indicated in the most recent version of the handbook entitled "American Conference of Governmental Industrial Hygienists (ACGIH)," than the lowest TLV value previously modeled;

b. changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant with a listed TLV that was proposed in the application and modeled; and

c. physical changes to the emissions unit or its exhaust parameters (e.g., increased/ decreased exhaust flow, changes in stack height, changes in stack diameter, etc.).

If the permittee determines that the "Air Toxic Policy" will be satisfied for the above changes, the Ohio EPA will not consider the change(s) to be a "modification" under OAC rule 3745-31-01(VV)(1)(a)(ii), and a modification of the existing permit to install will not be required. If the change(s) is (are) defined as a modification under other provisions of the modification definition (other than (VV)(1)(a)(ii)), then the permittee shall obtain a final permit to install prior to the change.

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

3. The permittee shall collect, record, and retain the following information when it conducts evaluations to determine that the changed emissions unit will still satisfy the "Air Toxic Policy:"

a. a description of the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.);

b. documentation of its evaluation and determination that the changed emissions unit still satisfies the "Air Toxic Policy"; and

c. where computer modeling is performed, a copy of the resulting computer model runs that show the results of the application of the "Air Toxic Policy" for the change.

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Raw Material Processing (P901)

Activity Description: Feed hopper, primary crusher, storage bins, screens and associated conveying system

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
raw material processing (feed hopper, primary crusher, storage bins, grinding equipment, (2) screens and associated conveying systems), with/ baghouse	OAC rule 3745-31-05 (PTI #03-13047)	2.25 lbs of particulate emissions (PE)/hr, 9.86 TPY PE (from the exhaust stack of the baghouse that serves the primary crusher, storage bins, hammer mills, screens and conveying systems) 0.44 TPY fugitive PE See A.I.2.a and b.
	OAC rule 3745-17-07(A)	none (See A.I.2.c.)
	OAC rule 3745-17-11(B)	none (See A.I.2.c.)
	40 CFR Part 60, Subpart OOO	0.05 gram of PE per dry standard cubic meter (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
	OAC rule 3745-17-08(B)	See A.I.2.d.
	OAC rule 3745-17-07(B)	See A.I.2.e.

2. Additional Terms and Conditions

2.a Visible emissions of fugitive dust from the feed hopper shall not exceed 20% opacity, as a 3-minute average.

2.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.

2. Additional Terms and Conditions (continued)

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

2.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).

2.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).

II. 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 units are in operation.

III. Monitoring and/or Record Keeping Requirements

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

2. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible fugitive dust 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. the cause of the visible emissions;
c. the total duration of any visible emission incident; and
d. any corrective actions taken to eliminate the visible emissions.

IV. 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.

2. These reports are due by the dates specified in Part I - General Terms and Conditions of this permit under section (A)(1).

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

V. Testing Requirements

1. 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 6 months prior to permit expiration.

b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate for particulate emissions and the opacity VE limitations for the baghouse exhaust stack and the feed hopper.

c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s):

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 hoper : 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.

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

2. 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.

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

3.a Emission Limitations:
2.25 pounds of PE/hour and 9.86 tons of 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).

3.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.

V. Testing Requirements (continued)

3.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:
If required, the permittee shall demonstrate compliance with the visible emissions limitation above pursuant to Method 9 of 40 CFR, Part 60, Appendix A.

3.d Emission Limitation:
0.05 gram of PE/dscm

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

3.e Emission Limitation:
7% opacity (from the baghouse exhaust stack)

Applicable Compliance Method:
If required, the permittee shall demonstrate compliance with the visible emissions limitation above pursuant to Method 9 of 40 CFR, Part 60, Appendix A.

3.f Emission Limitation:
no visible fugitive emissions (from any building opening)

Applicable Compliance
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.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Sand Storage Bins (P902)

Activity Description: (4) sand storage bins

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
4 sand storage bins, with baghouse	OAC rule 3745-31-05 (PTI #03-13047)	1.96 lbs of particulate emissions (PE)/hr, 8.59 TPY of PE (from the exhaust stack of the baghouse) 0.44 TPY of fugitive PE no visible fugitive emissions from any building opening See A.I.2.a.
	OAC rule 3745-17-07(A)	none (See A.I.2.b.)
	OAC rule 3745-17-11(B)	none (See A.I.2.c.)
	OAC rule 3745-17-08(B)	none (See A.I.2.d.)
	OAC rule 3745-17-07(B)	none (See A.I.2.e.)

2. Additional Terms and Conditions

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

2.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.

2.c The uncontrolled mass rate of particulate emissions from this emissions unit is less than 10 lbs/hr. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(ii), Figure II of OAC rule 3745-17-11 does not apply. Also, Table I does not apply because the facility is located in Marion County.

2.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).

2.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).

II. 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.

III. Monitoring and/or Record Keeping Requirements

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

IV. 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.

2. These reports are due by the dates specified in Part I - General Terms and Conditions of this permit under section (A)(1).

V. Testing Requirements

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

1.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).

1.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.

1.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.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Mold Line Sand System (P903)

Activity Description: (2) Deboer mixers and DeBoer molded brick machine

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
mold line sand system (2 DeBoer mixers and DeBoer molded brick machine), with baghouse	OAC rule 3745-31-05 (PTI #03-13047)	3.92 lbs of particulate emissions (PE)/hr, 17.18 TPY of PE (from the exhaust stack of the baghouse serving the Deboer mixers and the DeBoer molded brick machine) 0.44 TPY of fugitive PE no visible fugitive emissions from any building opening See A.I.2.a.
	OAC rule 3745-17-07(A)	none (See A.I.2.b.)
	OAC rule 3745-17-11(B)	none (See A.I.2.c.)
	OAC rule 3745-17-08(B)	none (See A.I.2.d.)
	OAC rule 3745-17-07(B)	none (See A.I.2.e.)

2. Additional Terms and Conditions

2.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.

2.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.

2.c The uncontrolled mass rate of particulate emissions from this emissions unit is less than 10 lbs/hr. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(ii), Figure II of OAC rule 3745-17-11 does not apply. Also, Table I does not apply because the facility is located in Marion County.

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

2.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).

II. 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.

III. Monitoring and/or Record Keeping Requirements

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

IV. 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.

2. These reports are due by the dates specified in Part I - General Terms and Conditions of this permit under section (A)(1).

V. Testing Requirements

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

1.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).

1.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.

1.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.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Extrusion Line Sand System (P904)

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

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
extrusion line sand system (pugmill, vacuum chamber, extruder, vibratory sand feeders, sand blaster and slurry tanks), with baghouse	OAC rule 3745-31-05 (PTI #03-13047)	3.92 lbs of particulate emissions (PE)/hr, 17.18 TPY of PE (from the exhaust stack of the baghouse serving the pugmill, vacuum chamber, extruder, vibratory sand feeders and blaster and slurry tanks) 0.44 TPY of fugitive PE no visible fugitive emissions from any building opening See A.I.2.a.
	OAC rule 3745-17-07(A)	none (See A.I.2.b.)
	OAC rule 3745-17-11(B)	none (See A.I.2.c.)
	OAC rule 3745-17-08(B)	none (See A.I.2.d.)
	OAC rule 3745-17-07(B)	none (See A.I.2.e.)

2. Additional Terms and Conditions

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

2.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.

2.c The uncontrolled mass rate of particulate emissions from this emissions unit is less than 10 lbs/hr. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(ii), Figure II of OAC rule 3745-17-11 does not apply. Also, Table I does not apply because the facility is located in Marion County.

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

2.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).

II. 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.

III. Monitoring and/or Record Keeping Requirements

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

IV. 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.

2. These reports are due by the dates specified in Part I - General Terms and Conditions of this permit under section (A)(1).

V. Testing Requirements

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

1.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).

1.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.

1.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.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Setting Machine (P905)

Activity Description: Sets Brick on Kiln Cars

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
setting machine, with baghouse	OAC rule 3745-31-05 (PTI #03-13047)	2.96 lbs of particulate emissions (PE)/hr, 12.96 TPY of PE (from the baghouse exhaust stack) 0.44 TPY of fugitive PE no visible fugitive emissions from any building opening See A.I.2.a.
	OAC rule 3745-17-07(A)	none (See A.I.2.b.)
	OAC rule 3745-17-11(B)	none (See A.I.2.c.)
	OAC rule 3745-17-08(B)	none (See A.I.2.d.)
	OAC rule 3745-17-07(B)	none (See A.I.2.e.)

2. Additional Terms and Conditions

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

2.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.

2.c The uncontrolled mass rate of particulate emissions from this emissions unit is less than 10 lbs/hr. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(ii), Figure II of OAC rule 3745-17-11 does not apply. Also, Table I does not apply because the facility is located in Marion County.

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

2.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).

II. 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.

III. Monitoring and/or Record Keeping Requirements

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

IV. 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.

2. These reports are due by the dates specified in Part I - General Terms and Conditions of this permit under section (A)(1).

V. Testing Requirements

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

1.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).

1.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.

1.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.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Mixing and Blending (P906)

Activity Description: Agemac 046 Mixer

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
mixing and blending Agemac 046 mixer, (2) surge bins, (4) additive feeders and associated conveyors, with baghouse	OAC rule 3745-31-05 (PTI #03-13047)	1.80 lbs of particulate emissions (PE)/hr, 7.88 TPY of PE (from the exhaust stack of the baghouse serving the Agemac 046 mixer, surge bins, additive feeders and associated conveyors) 0.44 TPY of fugitive PE no visible fugitive emissions from any building opening See A.I.2.a.
	OAC rule 3745-17-07(A)	none (See A.I.2.b.)
	OAC rule 3745-17-11(B)	none (See A.I.2.c.)
	OAC rule 3745-17-08(B)	none (See A.I.2.d.)
	OAC rule 3745-17-07(B)	none (See A.I.2.e.)

2. Additional Terms and Conditions

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

2.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.

2.c The uncontrolled mass rate of particulate emissions from this emissions unit is less than 10 lbs/hr. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(ii), Figure II of OAC rule 3745-17-11 does not apply. Also, Table I does not apply because the facility is located in Marion County.

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

2.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).

II. 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.

III. Monitoring and/or Record Keeping Requirements

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

IV. 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.

2. These reports are due by the dates specified in Part I - General Terms and Conditions of this permit under section (A)(1).

V. Testing Requirements

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

1.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).

1.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.

1.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.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Sand Mixer #1 (P907)

Activity Description: Sand Mixer #1

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
sand mixer #1, with baghouse	OAC rule 3745-31-05 (PTI #03-13047)	1.96 lbs of particulate emissions (PE)/hr, 8.59 TPY of PE (from the baghouse exhaust stack) 0.44 TPY of fugitive PE no visible fugitive emissions from any building opening See A.I.2.a.
	OAC rule 3745-17-07(A)	none (See A.I.2.b.)
	OAC rule 3745-17-11(B)	none (See A.I.2.c.)
	OAC rule 3745-17-08(B)	none (See A.I.2.d.)
	OAC rule 3745-17-07(B)	none (See A.I.2.e.)

2. Additional Terms and Conditions

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

2.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.

2.c The uncontrolled mass rate of particulate emissions from this emissions unit is less than 10 lbs/hr. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(ii), Figure II of OAC rule 3745-17-11 does not apply. Also, Table I does not apply because the facility is located in Marion County.

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

2.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).

II. 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.

III. Monitoring and/or Record Keeping Requirements

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

IV. 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.

2. These reports are due by the dates specified in Part I - General Terms and Conditions of this permit under section (A)(1).

V. Testing Requirements

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

1.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).

1.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.

1.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.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Sand Mixer #2 (P908)

Activity Description: Sand Mixer #2

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
sand mixer #2, with baghouse	OAC rule 3745-31-05 (PTI #03-13047)	1.96 lbs of particulate emissions (PE)/hr, 8.59 TPY of PE (from the baghouse exhaust stack) 0.44 TPY of fugitive PE no visible fugitive emissions from any building opening See A.I.2.a.
	OAC rule 3745-17-07(A)	none (See A.I.2.b.)
	OAC rule 3745-17-11(B)	none (See A.I.2.c.)
	OAC rule 3745-17-08(B)	none (See A.I.2.d.)
	OAC rule 3745-17-07(B)	none (See A.I.2.e.)

2. Additional Terms and Conditions

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

2.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.

2.c The uncontrolled mass rate of particulate emissions from this emissions unit is less than 10 lbs/hr. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(ii), Figure II of OAC rule 3745-17-11 does not apply. Also, Table I does not apply because the facility is located in Marion County.

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

2.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).

II. 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.

III. Monitoring and/or Record Keeping Requirements

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

IV. 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.

2. These reports are due by the dates specified in Part I - General Terms and Conditions of this permit under section (A)(1).

V. Testing Requirements

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

1.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).

1.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.

1.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.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

****

THIS IS THE LAST PAGE OF THE PERMIT

****