



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

03/23/01

CERTIFIED MAIL

RE: Draft Title V Chapter 3745-77 permit

06-79-00-0118
The Belden Brick Company
John C Jensen
P.O. Box 430
Sugarcreek, OH 44681-0430

Dear John C Jensen:

You are hereby notified that the Ohio Environmental Protection Agency has prepared the enclosed draft of the Title V permit for the facility referenced above. The purpose of this draft is to solicit public comments. A public notice concerning the draft will appear in the Ohio EPA Weekly Review and the major newspaper in the county where the facility is located. Comments and/or a request for a public hearing from the public and any affected parties will be accepted by Southeast District Office within 30 days of the date of publication in the newspaper. You will be notified in writing if a public hearing is scheduled.

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

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

Very truly yours,

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

cc: USEPA (electronically submitted)
Michael Ahern, DAPC PMU
Southeast District Office
Pennsylvania
West Virginia



Ohio EPA

State of Ohio Environmental Protection Agency

DRAFT TITLE V PERMIT

Issue Date: 03/23/01

Effective Date: To be entered upon final issuance

Expiration Date: To be entered upon final issuance

This document constitutes issuance to:

The Belden Brick Company
P.O. Box 430
Sugarcreek, OH 44681-0430

of a Title V permit for Facility ID: 06-79-00-0118

Emissions Unit ID (Company ID)/

Emissions Unit Activity Description:

F467 (Plt 4 Brick Crusher)

Plt 4 Brick Crusher is a fugitive dust source

P101 (Plt 9 Tunnel Kiln #1)

Plt 9 Tunnel Kiln # 1 to P9K1PCSTK, P9K1R1STK, P9R2STK, P9K1WCSTK

P102 (Plt 9 Tunnel Kiln #2)

Plt 9 Tunnel Kiln # 2 to P9K2PCSTK, P9K2WCSTK

P301 (Plt 3 Tunnel Kiln #1)

Plt 3 Tunnel Kiln to P3K1STK - Undercar cooling bypass to P3UCSTK

P401 (Plt 4-2 Periodic Kiln #1)

Plt 4-2 Periodic Kiln to P42KSSTK

P402 (Plt 4-2 Periodic Kiln #2)

Plt 4-2 Periodic Kiln to P42KSSTK

P403 (Plt 4-2 Periodic Kiln #3)

Plt 4-2 Periodic Kiln to P42KSSTK

P404 (Plt 4-2 Periodic Kiln #4)

Plt 4-2 Periodic Kiln to P42KSSTK

P405 (Plt 4-2 Periodic Kiln #5)

Plt 4-2 Periodic Kiln to P42KSSTK

P406 (Plt 4-2 Periodic Kiln #6)

Plt 4-2 Periodic Kiln to P42KSSTK

P407 (Plt 4-2 Periodic Kiln #7)

Plt 4-2 Periodic Kiln to P42KSSTK

P408 (Plt 4-2 Periodic Kiln #8)

Plt 4-2 Periodic Kiln to P42KSSTK

P409 (Plt 4-2 Periodic Kiln #9)

Plt 4-2 Periodic Kiln to P42KSSTK

P410 (Plt 4-2 Periodic Kiln #10)
Plt 4-2 Periodic Kiln to P42KSSTK

P411 (Plt 4-2 Periodic Kiln #11)
Plt 4-2 Periodic Kiln to P42KNSTK

P412 (Plt 4-2 Periodic Kiln #12)
Plt 4-2 Periodic Kiln to P42KNSTK

P413 (Plt 4-2 Periodic Kiln #13)
Plt 4-2 Periodic Kiln to P42KNSTK

P414 (Plt 4-2 Periodic Kiln #14)
Plt 4-2 Periodic Kiln to P42KNSTK

P415 (Plt 4-2 Periodic Kiln #15)
Plt 4-2 Periodic Kiln to P42KNSTK

P416 (Plt 4-2 Periodic Kiln #16)
Plt 4-2 Periodic Kiln to P42KNSTK

P417 (Plt 4-2 Periodic Kiln #17)
Plt 4-2 Periodic Kiln to P42KNSTK

P418 (Plt 4-2 Periodic Kiln #18)
Plt 4-2 Periodic Kiln to P42KNSTK

P419 (Plt 4-2 Periodic Kiln #19)
Plt 4-2 Periodic Kiln to P42KNSTK

P420 (Plt 4-2 Periodic Kiln #20)
Plt 4-2 Periodic Kiln to P42KNSTK

P601 (Plt 6 Tunnel Kiln #1)
Plt 6 Tunnel Kiln # 1 to P6K1STK

P602 (Plt 6 Tunnel Kiln #2)
Plt 6 Tunnel Kiln # 2 to P6K2STK

P603 (Plt 6 Tunnel Kiln #3)
Plt 6 Tunnel Kiln # 3 to P6K3STK

P801 (Plt 8 Tunnel Kiln #1)
Plt 8 Tunnel Kiln # 1 to P8K1STK & Ware Cool bypass P8WC1STK

P802 (Plt 8 Tunnel Kiln #2)
Plt 8 Tunnel Kiln # 2 to P8K23STK & Ware Cool bypass P8WC2STK

P803 (Plt 8 Tunnel Kiln #3)
Plt 8 Tunnel Kiln # 3 to P8K23STK & Ware Cool bypass P8WC3STK

P870 (Plt 8 Sand Dryer)
Plt 8 Sand Dryer to P8SANDSTK

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

Southeast District Office
2195 Front Street
Logan, OH 43138
(740) 385-8501

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 emission limitations, operational restrictions, and control device operating parameter limitations, 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 monitoring, recordkeeping, and reporting requirements contained in this permit shall be submitted to the appropriate Ohio EPA District Office or local air agency every six months, i.e., by January 31 and July 31 of each year for the previous six calendar months. 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 Federally Enforceable Emission Limitations, Operational Restrictions, or Control Device Operating Parameter Limitations (See Section A of This Permit)

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

Part II - Specific Facility Terms and Conditions

A. State and Federally Enforcable Section

None

B. State Only Enforceable Section

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

B671 - Plant 6 Dravo heater #1, factory;
B672 - Plant 6 Dravo heater #2, grinding plant;
B871 - Plant 8 Dravo heater #1, factory;
B872 - Plant 8 Dravo heater #2, car repair;
B873 - Plant 8 Dravo heater #3, package dept.;
B874 - Plant 8 Dravo heater #4, soft mud;
F151 - Plant 9 grinding plant;
F176 - Plant 9 parking area;
F325 - Plant 3 factory;
F351 - Plant 3 grinding plant;
F376 - Plant 3 parking area;
F377 - Plant 3 load/storage area;
F378 - Plant 3 haul roads;
F425 - Plant 4-1 factory;
F426 - Plant 4-2 factory;
F451 - Plant 4-1 grinding plant;
F452 - Plant 4-2 grinding plant;
F478 - Plant 4 haul roads;
F625 - Plant 6 factory;
F651 - Plant 6 grinding plant;
F676 - Plant 6 parking area;
F678 - Plant 6 haul roads;
F825 - Plant 8 factory;
F851 - Plant 8 grinding plant;
P161 - Plant 9 dryer;
P169 - Plant 9 car cleaner;
P364 - Plant 3 soft mud dryer;
P365 - Plant 3 preheater;
P369 - Plant 3 car cleaner;
P370 - Plant 3 sand dryer;
P461 - Plant 4-1 dryer;
P462 - Plant 4-2 dryer;
P661 - Plant 6 dryer # 1;
P662 - Plant 6 dryer # 2;
P663 - Plant 6 dryer # 3;
P664 - Plant 6 glaze line;
P668 - Plant 6 waxer;
P669 - Plant 6 car cleaner;
P675 - Plant 6 shuttle kiln;
P861 - Plant 8 dryer # 2;
P862 - Plant 8 dryer # 3;
P863 - Plant 8 soft mud dryer A;
P864 - Plant 8 soft mud dryer B;
P865 - Plant 8 preheater;
P869 - Plant 8 car cleaner; and
F877 - Plant 8 load/storage area.

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

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Plt 4 Brick Crusher (F467)
Activity Description: Plt 4 Brick Crusher is a fugitive dust source

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
50 tons per hour jaw crusher and screen for coarse crushing of brick, with water sprays for control of fugitive dust	OAC rule 3745-31-05(A)(3) (PTI 06-3340)	Particulate emissions shall not exceed 1.25 lbs/hr or there shall be no visible emissions of fugitive dust.
		See A.I.2.b below.
	OAC rule 3745-17-07(B)	See A.I.2.a below.
	OAC rule 3745-17-08(B)	See A.I.2.a below.

2. Additional Terms and Conditions

- 2.a This facility is located in Tuscarawas County, which is not identified in Appendix A of OAC rule 3745-17-08. Therefore, the fugitive dust emissions from this emissions unit are exempt from the fugitive dust control requirements and visible emission limitation established in OAC rules 3745-17-08(B) and 3745-17-07(B), respectively.
- 2.b The water sprays on the crusher shall be employed at all times, when the emissions unit is in operation, to eliminate visible emissions of fugitive dust.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall check for the presence of any visible particulate emissions from the crusher each day when the crusher is in operation. The presence of any visible emissions from the crusher shall be noted in an operations log along with the date and time that the visible emissions were observed.

IV. Reporting Requirements

1. The permittee shall submit quarterly written reports which (a) identify all days during which any visible particulate emissions were observed from the crusher and (b) describe the corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) quarterly, i.e., by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarter.

V. Testing Requirements

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

1.a Emission Limitation:

1.25 lbs/hr of particulate emissions

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the emission factor of 0.5 pound of particulates per ton (from Table 2.18-1 of the document entitled "Reasonably Available Control Measures for Fugitive Dust Sources", published by Ohio EPA) by the rated capacity of 50 tons per hour, and by the estimated control efficiency of 95% (1 - 0.95) for wet suppression. Compliance with the 1.25 lbs/hr particulate emission limitation is assumed if the crusher complies with the no visible emissions limitation.

1.b Emission Limitation:

no visible particulate emissions of fugitive dust

Applicable Compliance Method:

Compliance shall be demonstrated based upon visible emission observations performed in accordance with 40 CFR Part 60, Appendix A, Method 22 and the monitoring, record keeping, and reporting requirements specified in sections A.III.1 and A.IV.1.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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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: Plt 9 Tunnel Kiln #1 (P101)

Activity Description: Plt 9 Tunnel Kiln # 1 to P9K1PCSTK, P9K1R1STK, P9R2STK, P9K1WCSTK

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Plant 9, natural gas-fired tunnel kiln # 1	OAC rule 3745-17-11	See A.I.2.a below.
	OAC rule 3745-17-07(A)	See A.I.2.b below.
	OAC rule 3745-18-06(E)(2)	Emissions of sulfur dioxide shall not exceed 61.4 lbs/hr.

2. Additional Terms and Conditions

- 2.a The uncontrolled mass rate of particulate emissions from this emissions unit is less than 10 pounds per hour as determined using the particulate emission factor of 0.37 lb/ton obtained from AP42, Volume I, 5th Edition, Chapter 11, Section 11.3, Table 11.3-1, dated August, 1997. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(a)(ii), Figure II of OAC rule 3745-17-11 does not apply. In addition, Table I of OAC rule 3745-17-11 does not apply pursuant to OAC rule 3745-17-11(A)(2)(b)(ii).
- 2.b This emissions unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(A), pursuant to OAC rule 3745-17-07(A)(3)(h), because the emissions unit is not subject to the requirements of OAC rule 3745-17-11.

II. Operational Restrictions

1. The permittee shall burn only natural gas in this emissions unit.
2. The amount of sulfur entering this emissions unit, as an hourly average for each day of operation, shall not exceed the sulfur feed rate documented during the latest SO₂ emission test that demonstrated compliance with the allowable SO₂ emission rate.

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.

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

2. The permittee shall maintain records of the following information for the purpose of determining the amount of sulfur fed to this emissions unit:
 - a. The permittee shall maintain daily records of the amount (in pounds) of the clay/shale raw materials processed by this emissions unit.
 - b. The permittee shall take a daily composite sample of the clay/shale raw materials and determine the sulfur content of the clay/shale raw materials entering the kiln each day. The composite sample shall be taken from the stock pile and/or the production mix, and shall consist of approximately 5 to 10 grab samples. The test method for the determination of the sulfur content in the raw materials shall be that method specified in the supplemental report submitted by Pullman-Swindell and the Belden Brick Company as prepared by John C. Jensen and dated January 30, 1981, pp. 6 and 7. Daily records shall be maintained of the sulfur content results.
 - c. The sulfur content shall be used to determine the amount of sulfur (in pounds) entering the kiln each day, based on the daily amount of clay/shale raw materials processed. Daily records shall be maintained of the amount of sulfur usage. The following formula shall be used for this determination:

pounds sulfur/day = (percent sulfur/100%) x pounds clay/shale raw materials/day
 - d. Daily records shall be maintained of the hours of operation of this emissions unit.
 - e. The permittee shall calculate and record each day the average hourly amount of sulfur fed to this emissions unit [i.e., 2.c/2.d], in pounds/hour (average).

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 each day during which the amount of sulfur entering this emissions unit, as an hourly average for each day of operation, exceeded the sulfur feed rate documented during the latest SO₂ emission test that demonstrated compliance with the allowable SO₂ emission rate, and the actual average hourly sulfur feed rate for each such day. All quarterly deviation reports shall be submitted in accordance with paragraph A.1.c of the General Terms and Conditions of this permit.

V. Testing Requirements

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

1.a Emission Limitation:

61.4 lbs/hr of sulfur dioxide

Applicable Compliance Method:

Compliance shall be demonstrated based upon the emission testing requirements specified in OAC rule 3745-18-04 and the methods and procedures specified in 40 CFR Part 60, Appendix A, Methods 1 through 4 and Method 6 and the record keeping required pursuant to section A.III.2 of this permit.

V. Testing Requirements (continued)

2. Pursuant to R.C. 3704.03 and OAC rule 3745-15-04(A), the permittee shall conduct, or have conducted, emissions tests as described below.

The uncontrolled mass emission rate of particulates and sulfur dioxide from one stack at Plant 9 shall be determined during production using fire clay as raw material and, if possible, during production when "flashing" is used. Testing shall be completed as soon as possible, but no later than 180 days from January 17, 2001.

The emissions tests shall be conducted in accordance with the appropriate test methods and procedures set forth in Appendix A to 40 CFR, Part 60 as such Appendix existed on July 1, 1996. The emissions unit shall be tested under the maximum production rate.

Not later than 14 days prior to the proposed test dates, or such shorter time as the Ohio EPA Southeast District Office agrees, the permittee shall submit an "Intent to Test" notification to the Ohio EPA Southeast District Office. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the times and dates of the tests, and the persons who will be conducting the tests. Failure to submit such notification for review and approval prior to the tests may result in the Ohio EPA's refusal to accept the results of the emission tests.

Personnel from Ohio EPA shall be permitted to witness the tests, examine the testing equipment, and acquire data and information regarding the emissions unit operating parameters.

A comprehensive written report on the results of the emissions tests shall be submitted to the Ohio EPA Central Office and the Ohio EPA Southeast District Office within 30 days following completion of the tests. This written report shall be signed by the person or persons responsible for the tests

3. During the sulfur dioxide emission testing required in section A.V.2, the permittee shall also measure and record the sulfur feed rate, in pounds per hour, during each test run.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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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: Plt 9 Tunnel Kiln #2 (P102)

Activity Description: Plt 9 Tunnel Kiln # 2 to P9K2PCSTK, P9K2WCSTK

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Plant 9, Swindell Dressler natural gas-fired tunnel kiln #2	OAC rule 3745-31-05(A)(3) (PTI 06-074)	See A.I.2.a below.
	OAC rule 3745-17-11	See A.I.2.b below.
	OAC rule 3745-17-07(A)	See A.I.2.c below.
	OAC rule 3745-18-06(E)(2)	Emissions of sulfur dioxide shall not exceed 60.0 lbs/hr.

2. Additional Terms and Conditions

- 2.a The best available technology (BAT) determination was determined to be compliance with all applicable rules.
- 2.b The uncontrolled mass rate of particulate emissions from this emissions unit is less than 10 pounds per hour as determined using the particulate emission factor of 0.37 lb/ton obtained from AP42, Volume I, 5th Edition, Chapter 11, Section 11.3, Table 11.3-1, dated August, 1997. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(a)(ii), Figure II of OAC rule 3745-17-11 does not apply. In addition, Table I of OAC rule 3745-17-11 does not apply pursuant to OAC rule 3745-17-11(A)(2)(b)(ii).
- 2.c This emissions unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(A), pursuant to OAC rule 3745-17-07(A)(3)(h), because the emissions unit is not subject to the requirements of OAC rule 3745-17-11.

II. Operational Restrictions

1. The permittee shall burn only natural gas in this emissions unit.
2. The amount of sulfur entering this emissions unit, as an hourly average for each day of operation, shall not exceed the sulfur feed rate documented during the latest SO2 emission test that demonstrated compliance with the allowable SO2 emission rate.

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.

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

2. The permittee shall maintain records of the following information for the purpose of determining the amount of sulfur fed to this emissions unit:
 - a. The permittee shall maintain daily records of the amount (in pounds) of the clay/shale raw materials processed by this emissions unit.
 - b. The permittee shall take a daily composite sample of the clay/shale raw materials and determine the sulfur content of the clay/shale raw materials entering the kiln each day. The composite sample shall be taken from the stock pile and/or the production mix, and shall consist of approximately 5 to 10 grab samples. The test method for the determination of the sulfur content in the raw materials shall be that method specified in the supplemental report submitted by Pullman-Swindell and the Belden Brick Company as prepared by John C. Jensen and dated January 30, 1981, pp. 6 and 7. Daily records shall be maintained of the sulfur content results.
 - c. The sulfur content shall be used to determine the amount of sulfur (in pounds) entering the kiln each day, based on the daily amount of clay/shale raw materials processed. Daily records shall be maintained of the amount of sulfur usage. The following formula shall be used for this determination:

pounds sulfur/day = (percent sulfur/100%) x pounds clay/shale raw materials/day
 - d. Daily records shall be maintained of the hours of operation of this emissions unit.
 - e. The permittee shall calculate and record each day the average hourly amount of sulfur fed to this emissions unit [i.e., 2.c/2.d], in pounds/hour (average).

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 each day during which the amount of sulfur entering this emissions unit, as an hourly average for each day of operation, exceeded the sulfur feed rate documented during the latest SO₂ emission test that demonstrated compliance with the allowable SO₂ emission rate, and the actual average hourly sulfur feed rate for each such day. All quarterly deviation reports shall be submitted in accordance with paragraph A.1.c of the General Terms and Conditions of this permit.

V. Testing Requirements

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

1.a Emission Limitation:

60.0 lbs/hr of sulfur dioxide

Applicable Compliance Method:

Compliance shall be demonstrated based upon the emission testing requirements specified in OAC rule 3745-18-04 and the methods and procedures specified in 40 CFR Part 60, Appendix A, Methods 1 through 4 and Method 6 and the record keeping required pursuant to section A.III.2 of this permit.

V. Testing Requirements (continued)

2. Pursuant to R.C. 3704.03 and OAC rule 3745-15-04(A), the permittee shall conduct, or have conducted, emissions tests as described below.

The uncontrolled mass emission rate of particulates and sulfur dioxide from one stack at Plant 9 shall be determined during production using fire clay as raw material and, if possible, during production when "flashing" is used. Testing shall be completed as soon as possible, but no later than 180 days from January 17, 2001.

The emissions tests shall be conducted in accordance with the appropriate test methods and procedures set forth in Appendix A to 40 CFR, Part 60 as such Appendix existed on July 1, 1996. The emissions unit shall be tested under the maximum production rate.

Not later than 14 days prior to the proposed test dates, or such shorter time as the Ohio EPA Southeast District Office agrees, the permittee shall submit an "Intent to Test" notification to the Ohio EPA Southeast District Office. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the times and dates of the tests, and the persons who will be conducting the tests. Failure to submit such notification for review and approval prior to the tests may result in the Ohio EPA's refusal to accept the results of the emission tests.

Personnel from Ohio EPA shall be permitted to witness the tests, examine the testing equipment, and acquire data and information regarding the emissions unit operating parameters.

A comprehensive written report on the results of the emissions tests shall be submitted to the Ohio EPA Central Office and the Ohio EPA Southeast District Office within 30 days following completion of the tests. This written report shall be signed by the person or persons responsible for the tests

3. During the sulfur dioxide emission testing required in section A.V.2, the permittee shall also measure and record the sulfur feed rate, in pounds per hour, during each test run.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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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: Plt 3 Tunnel Kiln #1 (P301)

Activity Description: Plt 3 Tunnel Kiln to P3K1STK - Undercar cooling bypass to P3UCSTK

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Plant 3, natural gas-fired tunnel kiln #1 controlled with a dry scrubber and a baghouse	OAC rule 3745-31-05(A)(3) (PTI 06-495)	Emissions of nitrogen oxides shall not exceed 6.0 lbs/hr.
		Emissions of sulfur dioxide shall not exceed 6.6 lbs/hr.
		Emissions of particulates shall not exceed 4.2 lbs/hr.
		The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A).
	OAC rule 3745-17-07	Visible particulate emissions from any stack shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.
	OAC rule 3745-17-11	See A.I.2.a below.
	OAC rule 3745-18-06	See A.I.2.a below.

2. Additional Terms and Conditions

- 2.a The emission limitation required by this applicable rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05.
- 2.b A statement of certification of the existing continuous SO₂ monitoring system shall be maintained on site and shall consist of a letter from the Ohio EPA detailing the results of an Agency review of the certification tests and a statement by the Agency that the system is considered certified in accordance with the requirements of 40 CFR Part 60, Appendix B, Performance Specification 6. Proof of certification shall be made available to the Director (the appropriate Ohio EPA District Office or local air agency) upon request.

II. Operational Restrictions

1. The permittee shall burn only natural gas in this emissions unit.
2. The amount of sulfur entering this emissions unit, as an hourly average for each day of operation, shall not exceed the sulfur feed rate documented during the latest SO₂ emission test that demonstrated compliance with the allowable SO₂ emission rate.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any visible emission incident; and
 - e. any corrective actions taken to eliminate the visible emissions.
2. The permittee shall maintain records of the following information for the purpose of determining the amount of sulfur fed to this emissions unit:
 - a. The permittee shall maintain daily records of the amount (in pounds) of the clay/shale raw materials processed by this emissions unit.
 - b. The permittee shall take a daily composite sample of the clay/shale raw materials and determine the sulfur content of the clay/shale raw materials entering the kiln each day. The composite sample shall be taken from the stock pile and/or the production mix, and shall consist of approximately 5 to 10 grab samples. The test method for the determination of the sulfur content in the raw materials shall be that method specified in the supplemental report submitted by Pullman-Swindell and the Belden Brick Company as prepared by John C. Jensen and dated January 30, 1981, pp. 6 and 7. Daily records shall be maintained of the sulfur content results.
 - c. The sulfur content shall be used to determine the amount of sulfur (in pounds) entering the kiln each day, based on the daily amount of clay/shale raw materials processed. Daily records shall be maintained of the amount of sulfur usage. The following formula shall be used for this determination:

$$\text{pounds sulfur/day} = (\text{percent sulfur}/100\%) \times \text{pounds clay/shale raw materials/day}$$
 - d. Daily records shall be maintained of the hours of operation of this emissions unit.
 - e. The permittee shall calculate and record each day the average hourly amount of sulfur fed to this emissions unit [i.e., 2.c/2.d], in pounds/hour (average).
3. 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.
4. The permittee shall operate and maintain existing equipment to continuously monitor and record SO₂ from this emissions unit in units of the applicable standard(s). Such continuous monitoring and recording equipment shall comply with the requirements specified in 40 CFR Part 60.13.

The permittee shall maintain records of all data obtained by the continuous SO₂ monitoring system including, but not limited to, parts per million SO₂ on an instantaneous (one-minute) basis, emissions of SO₂ in units of the applicable standard in the appropriate averaging period (e.g., hourly, hourly rolling, 3-hour, daily, 30-day rolling, etc.), results of daily zero/span calibration checks, and magnitude of manual calibration adjustments.

IV. Reporting Requirements

1. If a different blend or source of raw materials is to be used at any time in the future, a report shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) prior to making the change outlining the proposed change in materials, showing the sulfur content of the new materials or blend, showing calculated sulfur dioxide emission rates based on laboratory samples, and certifying compliance with the above-listed sulfur dioxide emission limitation.

IV. Reporting Requirements (continued)

2. The permittee shall submit quarterly deviation (excursion) reports that identify each day during which the amount of sulfur entering this emissions unit, as an hourly average for each day of operation, exceeded the sulfur feed rate documented during the latest SO₂ emission test that demonstrated compliance with the allowable SO₂ emission rate, and the actual average hourly sulfur feed rate for each such day. All quarterly deviation reports shall be submitted in accordance with paragraph A.1.c of the General Terms and Conditions of this permit.
3. The permittee shall submit quarterly written reports which (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe the corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) quarterly, i.e., by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarter.
4. 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.
5. Pursuant to 40 CFR Parts 60.7 and 60.13(h), the permittee shall submit reports within 30 days following the end of each calendar quarter to the appropriate Ohio EPA District Office or local air agency documenting the date, commencement and completion times, duration, magnitude, reason (if known), and corrective actions taken (if any), of all instances of SO₂ values in excess of the applicable limit specified in section A.I.1. These reports shall also contain the total SO₂ emissions for the calendar quarter (in tons).

The permittee shall submit reports within 30 days following the end of each calendar quarter to the appropriate Ohio EPA District Office or local air agency documenting any continuous SO₂ monitoring system downtime while the emissions unit was on line (date, time, duration and reason) along with any corrective action(s) taken. The permittee shall provide the emissions unit operating time during the reporting period and the date, time, reason and corrective action(s) taken for each time period of emissions unit and control equipment malfunctions. The total operating time of the emissions unit and the total operating time of the analyzer while the emissions unit was on line shall also be included in the quarterly report.

If there are no excess emissions during the calendar quarter, the permittee shall submit a statement to that effect along with the emissions unit operating time during the reporting period and the date, time, reason, and corrective action(s) taken for each time period of emissions unit, control equipment, and/or monitoring system malfunctions. The total operating time of the emissions unit and the total operating time of the analyzer while the emissions unit was on line also shall be included in the quarterly report. These quarterly excess emission reports shall be submitted by January 30, April 30, July 30, and October 30 of each year and shall address the data obtained during the previous calendar quarter.

6. The permittee shall submit a summary of the excess emission report pursuant to 40 CFR Part 60.7. The summary shall be submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following the end of each calendar quarter in a manner prescribed by the Director.
7. Within 180 days of the effective date of this permit, the permittee shall develop a written quality assurance/quality control plan for the continuous SO₂ monitoring system designed to ensure continuous valid and representative readings of SO₂. The plan shall follow the requirements of 40 CFR Part 60, Appendix F. The quality assurance/quality control plan and a logbook dedicated to the continuous SO₂ monitoring system must be kept on site and available for inspection during regular office hours.

V. Testing Requirements

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

- 1.a Emission Limitation:

4.2 lbs/hr of particulates

Applicable Compliance Method:

Compliance shall be demonstrated based upon the emission testing methods and procedures specified in 40 CFR Part 60, Appendix A, Methods 1 through 4 and Method 5.

V. Testing Requirements (continued)

1.b Emission Limitation:

6.6 lbs/hr of sulfur dioxide

Applicable Compliance Method:

Compliance shall be demonstrated based upon the emission testing requirements specified in OAC rule 3745-18-04 and the methods and procedures specified in 40 CFR Part 60, Appendix A, Methods 1 through 4 and Method 6 and the record keeping required pursuant to sections A.III.2 and A.III.3 of this permit.

1.c Emission Limitation:

6.0 lbs/hr of nitrogen oxides

Applicable Compliance Method:

Compliance shall be demonstrated based upon the emission testing methods and procedures specified in 40 CFR Part 60, Appendix A, Methods 1 through 4 and Method 7.

1.d Emission Limitation:

20% opacity as a 6-minute average

Applicable Compliance Method:

Compliance with the visible emission limit shall be determined through visible emission observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1). No visible emission testing is specifically required to demonstrate compliance with this limit, but, if appropriate, may be requested pursuant to OAC rule 3745-15-04(A).

2. Pursuant to R.C. 3704.03 and OAC rule 3745-15-04(A), the permittee shall conduct, or have conducted, emissions tests as described below.

The uncontrolled mass emission rate of nitrogen oxides, particulates, and sulfur dioxide from Plant 3 shall be determined during production using fire clay as raw material. Testing shall be completed as soon as possible, but no later than 180 days from January 17, 2001.

The emissions tests shall be conducted in accordance with the appropriate test methods and procedures set forth in Appendix A to 40 CFR, Part 60 as such Appendix existed on July 1, 1996. The emissions unit shall be tested under the maximum production rate.

Not later than 30 days prior to the proposed test dates, or such shorter time as the Ohio EPA Southeast District Office agrees, the permittee shall submit an "Intent to Test" notification to the Ohio EPA Southeast District Office. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the times and dates of the tests, and the persons who will be conducting the tests. Failure to submit such notification for review and approval prior to the tests may result in the Ohio EPA's refusal to accept the results of the emission tests.

Personnel from Ohio EPA shall be permitted to witness the tests, examine the testing equipment, and acquire data and information regarding the emissions unit operating parameters.

A comprehensive written report on the results of the emissions tests shall be submitted to the Ohio EPA Central Office and the Ohio EPA Southeast District Office within 30 days following completion of the tests. This written report shall be signed by the person or persons responsible for the tests

3. During the sulfur dioxide emission testing required in section A.V.2, the permittee shall also measure and record the sulfur feed rate, in pounds per hour, during each test run.

VI. Miscellaneous Requirements

None

Facility Name: **The Belden Brick Company**
Facility ID: **06-79-00-0118**
Emissions Unit: **Plt 3 Tunnel Kiln #1 (P301)**

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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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: Plt 4-2 Periodic Kiln #1 (P401)
Activity Description: Plt 4-2 Periodic Kiln to P42KSSTK

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Plant 4-2, natural gas-fired periodic kiln # 1	OAC rule 3745-17-11	See A.I.2.a below.
	OAC rule 3745-17-07(A)	See A.I.2.b below.
	OAC rule 3745-18-06(E)(2)	Emissions of sulfur dioxide shall not exceed 45.3 lbs/hr.

2. Additional Terms and Conditions

- 2.a The uncontrolled mass rate of particulate emissions from this emissions unit is less than 10 pounds per hour as determined using the particulate emission factor of 0.37 lb/ton obtained from AP42, Volume I, 5th Edition, Chapter 11, Section 11.3, Table 11.3-1, dated August, 1997. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(a)(ii), Figure II of OAC rule 3745-17-11 does not apply. In addition, Table I of OAC rule 3745-17-11 does not apply pursuant to OAC rule 3745-17-11(A)(2)(b)(ii).
- 2.b This emissions unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(A), pursuant to OAC rule 3745-17-07(A)(3)(h), because the emissions unit is not subject to the requirements of OAC rule 3745-17-11.

II. Operational Restrictions

1. The permittee shall burn only natural gas in this emissions unit.
2. The amount of sulfur entering this emissions unit, as an hourly average for each day of operation, shall not exceed the sulfur feed rate documented during the latest SO₂ emission test for this emissions unit, or a similar emissions unit, that demonstrated compliance with the allowable SO₂ emission rate.

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.

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

2. The permittee shall maintain records of the following information for the purpose of determining the amount of sulfur fed to this emissions unit:
 - a. The permittee shall maintain daily records of the amount (in pounds) of the clay/shale raw materials processed by this emissions unit.
 - b. The permittee shall take a daily composite sample of the clay/shale raw materials and determine the sulfur content of the clay/shale raw materials entering the kiln each day. The composite sample shall be taken from the stock pile and/or the production mix, and shall consist of approximately 5 to 10 grab samples. The test method for the determination of the sulfur content in the raw materials shall be that method specified in the supplemental report submitted by Pullman-Swindell and the Belden Brick Company as prepared by John C. Jensen and dated January 30, 1981, pp. 6 and 7. Daily records shall be maintained of the sulfur content results.
 - c. The sulfur content shall be used to determine the amount of sulfur (in pounds) entering the kiln each day, based on the daily amount of clay/shale raw materials processed. Daily records shall be maintained of the amount of sulfur usage. The following formula shall be used for this determination:

pounds sulfur/day = (percent sulfur/100%) x pounds clay/shale raw materials/day
 - d. Daily records shall be maintained of the hours of operation of this emissions unit.
 - e. The permittee shall calculate and record each day the average hourly amount of sulfur fed to this emissions unit [i.e., 2.c/2.d], in pounds/hour (average).

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 each day during which the amount of sulfur entering this emissions unit, as an hourly average for each day of operation, exceeded the sulfur feed rate documented during the latest SO₂ emission test that demonstrated compliance with the allowable SO₂ emission rate, and the actual average hourly sulfur feed rate for each such day. All quarterly deviation reports shall be submitted in accordance with paragraph A.1.c of the General Terms and Conditions of this permit.

V. Testing Requirements

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

1.a Emission Limitation:

45.3 lbs/hr of sulfur dioxide

Applicable Compliance Method:

Compliance shall be demonstrated based upon the testing requirements specified in OAC rule 3745-18-04 and the methods and procedures specified in 40 CFR Part 60, Appendix A, Methods 1 through 4 and Method 6. No testing is specifically required to demonstrate compliance with this emission limit, but, if appropriate, may be requested pursuant to OAC rule 3745-15-04(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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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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: Plt 4-2 Periodic Kiln #2 (P402)

Activity Description: Plt 4-2 Periodic Kiln to P42KSSTK

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Plant 4-2, natural gas-fired periodic kiln # 2	OAC rule 3745-17-11	See A.I.2.a below.
	OAC rule 3745-17-07(A)	See A.I.2.b below.
	OAC rule 3745-18-06(E)(2)	Emissions of sulfur dioxide shall not exceed 45.3 lbs/hr.

2. Additional Terms and Conditions

- 2.a The uncontrolled mass rate of particulate emissions from this emissions unit is less than 10 pounds per hour as determined using the particulate emission factor of 0.37 lb/ton obtained from AP42, Volume I, 5th Edition, Chapter 11, Section 11.3, Table 11.3-1, dated August, 1997. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(a)(ii), Figure II of OAC rule 3745-17-11 does not apply. In addition, Table I of OAC rule 3745-17-11 does not apply pursuant to OAC rule 3745-17-11(A)(2)(b)(ii).
- 2.b This emissions unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(A), pursuant to OAC rule 3745-17-07(A)(3)(h), because the emissions unit is not subject to the requirements of OAC rule 3745-17-11.

II. Operational Restrictions

1. The permittee shall burn only natural gas in this emissions unit.
2. The amount of sulfur entering this emissions unit, as an hourly average for each day of operation, shall not exceed the sulfur feed rate documented during the latest SO₂ emission test for this emissions unit, or a similar emissions unit, that demonstrated compliance with the allowable SO₂ emission rate.

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.

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

2. The permittee shall maintain records of the following information for the purpose of determining the amount of sulfur fed to this emissions unit:
 - a. The permittee shall maintain daily records of the amount (in pounds) of the clay/shale raw materials processed by this emissions unit.
 - b. The permittee shall take a daily composite sample of the clay/shale raw materials and determine the sulfur content of the clay/shale raw materials entering the kiln each day. The composite sample shall be taken from the stock pile and/or the production mix, and shall consist of approximately 5 to 10 grab samples. The test method for the determination of the sulfur content in the raw materials shall be that method specified in the supplemental report submitted by Pullman-Swindell and the Belden Brick Company as prepared by John C. Jensen and dated January 30, 1981, pp. 6 and 7. Daily records shall be maintained of the sulfur content results.
 - c. The sulfur content shall be used to determine the amount of sulfur (in pounds) entering the kiln each day, based on the daily amount of clay/shale raw materials processed. Daily records shall be maintained of the amount of sulfur usage. The following formula shall be used for this determination:

$$\text{pounds sulfur/day} = (\text{percent sulfur}/100\%) \times \text{pounds clay/shale raw materials/day}$$
 - d. Daily records shall be maintained of the hours of operation of this emissions unit.
 - e. The permittee shall calculate and record each day the average hourly amount of sulfur fed to this emissions unit [i.e., 2.c/2.d], in pounds/hour (average).

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 each day during which the amount of sulfur entering this emissions unit, as an hourly average for each day of operation, exceeded the sulfur feed rate documented during the latest SO₂ emission test that demonstrated compliance with the allowable SO₂ emission rate, and the actual average hourly sulfur feed rate for each such day. All quarterly deviation reports shall be submitted in accordance with paragraph A.1.c of the General Terms and Conditions of this permit.

V. Testing Requirements

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

1.a Emission Limitation:

45.3 lbs/hr of sulfur dioxide

Applicable Compliance Method:

Compliance shall be demonstrated based upon the testing requirements specified in OAC rule 3745-18-04 and the methods and procedures specified in 40 CFR Part 60, Appendix A, Methods 1 through 4 and Method 6. No testing is specifically required to demonstrate compliance with this emission limit, but, if appropriate, may be requested pursuant to OAC rule 3745-15-04(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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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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: Plt 4-2 Periodic Kiln #3 (P403)
Activity Description: Plt 4-2 Periodic Kiln to P42KSSTK

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Plant 4-2, natural gas-fired periodic kiln # 3	OAC rule 3745-17-11	See A.I.2.a below.
	OAC rule 3745-17-07(A)	See A.I.2.b below.
	OAC rule 3745-18-06(E)(2)	Emissions of sulfur dioxide shall not exceed 45.3 lbs/hr.

2. Additional Terms and Conditions

- 2.a The uncontrolled mass rate of particulate emissions from this emissions unit is less than 10 pounds per hour as determined using the particulate emission factor of 0.37 lb/ton obtained from AP42, Volume I, 5th Edition, Chapter 11, Section 11.3, Table 11.3-1, dated August, 1997. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(a)(ii), Figure II of OAC rule 3745-17-11 does not apply. In addition, Table I of OAC rule 3745-17-11 does not apply pursuant to OAC rule 3745-17-11(A)(2)(b)(ii).
- 2.b This emissions unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(A), pursuant to OAC rule 3745-17-07(A)(3)(h), because the emissions unit is not subject to the requirements of OAC rule 3745-17-11.

II. Operational Restrictions

1. The permittee shall burn only natural gas in this emissions unit.
2. The amount of sulfur entering this emissions unit, as an hourly average for each day of operation, shall not exceed the sulfur feed rate documented during the latest SO₂ emission test for this emissions unit, or a similar emissions unit, that demonstrated compliance with the allowable SO₂ emission rate.

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.

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

2. The permittee shall maintain records of the following information for the purpose of determining the amount of sulfur fed to this emissions unit:
 - a. The permittee shall maintain daily records of the amount (in pounds) of the clay/shale raw materials processed by this emissions unit.
 - b. The permittee shall take a daily composite sample of the clay/shale raw materials and determine the sulfur content of the clay/shale raw materials entering the kiln each day. The composite sample shall be taken from the stock pile and/or the production mix, and shall consist of approximately 5 to 10 grab samples. The test method for the determination of the sulfur content in the raw materials shall be that method specified in the supplemental report submitted by Pullman-Swindell and the Belden Brick Company as prepared by John C. Jensen and dated January 30, 1981, pp. 6 and 7. Daily records shall be maintained of the sulfur content results.
 - c. The sulfur content shall be used to determine the amount of sulfur (in pounds) entering the kiln each day, based on the daily amount of clay/shale raw materials processed. Daily records shall be maintained of the amount of sulfur usage. The following formula shall be used for this determination:

pounds sulfur/day = (percent sulfur/100%) x pounds clay/shale raw materials/day
 - d. Daily records shall be maintained of the hours of operation of this emissions unit.
 - e. The permittee shall calculate and record each day the average hourly amount of sulfur fed to this emissions unit [i.e., 2.c/2.d], in pounds/hour (average).

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 each day during which the amount of sulfur entering this emissions unit, as an hourly average for each day of operation, exceeded the sulfur feed rate documented during the latest SO₂ emission test that demonstrated compliance with the allowable SO₂ emission rate, and the actual average hourly sulfur feed rate for each such day. All quarterly deviation reports shall be submitted in accordance with paragraph A.1.c of the General Terms and Conditions of this permit.

V. Testing Requirements

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

1.a Emission Limitation:

45.3 lbs/hr of sulfur dioxide

Applicable Compliance Method:

Compliance shall be demonstrated based upon the testing requirements specified in OAC rule 3745-18-04 and the methods and procedures specified in 40 CFR Part 60, Appendix A, Methods 1 through 4 and Method 6. No testing is specifically required to demonstrate compliance with this emission limit, but, if appropriate, may be requested pursuant to OAC rule 3745-15-04(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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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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: Plt 4-2 Periodic Kiln #4 (P404)

Activity Description: Plt 4-2 Periodic Kiln to P42KSSTK

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Plant 4-2, natural gas-fired periodic kiln # 4	OAC rule 3745-17-11	See A.I.2.a below.
	OAC rule 3745-17-07(A)	See A.I.2.b below.
	OAC rule 3745-18-06(E)(2)	Emissions of sulfur dioxide shall not exceed 45.3 lbs/hr.

2. Additional Terms and Conditions

- 2.a The uncontrolled mass rate of particulate emissions from this emissions unit is less than 10 pounds per hour as determined using the particulate emission factor of 0.37 lb/ton obtained from AP42, Volume I, 5th Edition, Chapter 11, Section 11.3, Table 11.3-1, dated August, 1997. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(a)(ii), Figure II of OAC rule 3745-17-11 does not apply. In addition, Table I of OAC rule 3745-17-11 does not apply pursuant to OAC rule 3745-17-11(A)(2)(b)(ii).
- 2.b This emissions unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(A), pursuant to OAC rule 3745-17-07(A)(3)(h), because the emissions unit is not subject to the requirements of OAC rule 3745-17-11.

II. Operational Restrictions

1. The permittee shall burn only natural gas in this emissions unit.
2. The amount of sulfur entering this emissions unit, as an hourly average for each day of operation, shall not exceed the sulfur feed rate documented during the latest SO₂ emission test for this emissions unit, or a similar emissions unit, that demonstrated compliance with the allowable SO₂ emission rate.

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.

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

2. The permittee shall maintain records of the following information for the purpose of determining the amount of sulfur fed to this emissions unit:
 - a. The permittee shall maintain daily records of the amount (in pounds) of the clay/shale raw materials processed by this emissions unit.
 - b. The permittee shall take a daily composite sample of the clay/shale raw materials and determine the sulfur content of the clay/shale raw materials entering the kiln each day. The composite sample shall be taken from the stock pile and/or the production mix, and shall consist of approximately 5 to 10 grab samples. The test method for the determination of the sulfur content in the raw materials shall be that method specified in the supplemental report submitted by Pullman-Swindell and the Belden Brick Company as prepared by John C. Jensen and dated January 30, 1981, pp. 6 and 7. Daily records shall be maintained of the sulfur content results.
 - c. The sulfur content shall be used to determine the amount of sulfur (in pounds) entering the kiln each day, based on the daily amount of clay/shale raw materials processed. Daily records shall be maintained of the amount of sulfur usage. The following formula shall be used for this determination:

pounds sulfur/day = (percent sulfur/100%) x pounds clay/shale raw materials/day
 - d. Daily records shall be maintained of the hours of operation of this emissions unit.
 - e. The permittee shall calculate and record each day the average hourly amount of sulfur fed to this emissions unit [i.e., 2.c/2.d], in pounds/hour (average).

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 each day during which the amount of sulfur entering this emissions unit, as an hourly average for each day of operation, exceeded the sulfur feed rate documented during the latest SO₂ emission test that demonstrated compliance with the allowable SO₂ emission rate, and the actual average hourly sulfur feed rate for each such day. All quarterly deviation reports shall be submitted in accordance with paragraph A.1.c of the General Terms and Conditions of this permit.

V. Testing Requirements

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

1.a Emission Limitation:

45.3 lbs/hr of sulfur dioxide

Applicable Compliance Method:

Compliance shall be demonstrated based upon the testing requirements specified in OAC rule 3745-18-04 and the methods and procedures specified in 40 CFR Part 60, Appendix A, Methods 1 through 4 and Method 6. No testing is specifically required to demonstrate compliance with this emission limit, but, if appropriate, may be requested pursuant to OAC rule 3745-15-04(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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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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: Plt 4-2 Periodic Kiln #5 (P405)

Activity Description: Plt 4-2 Periodic Kiln to P42KSSTK

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Plant 4-2, natural gas-fired periodic kiln # 5	OAC rule 3745-17-11	See A.I.2.a below.
	OAC rule 3745-17-07(A)	See A.I.2.b below.
	OAC rule 3745-18-06(E)(2)	Emissions of sulfur dioxide shall not exceed 45.3 lbs/hr.

2. Additional Terms and Conditions

- 2.a The uncontrolled mass rate of particulate emissions from this emissions unit is less than 10 pounds per hour as determined using the particulate emission factor of 0.37 lb/ton obtained from AP42, Volume I, 5th Edition, Chapter 11, Section 11.3, Table 11.3-1, dated August, 1997. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(a)(ii), Figure II of OAC rule 3745-17-11 does not apply. In addition, Table I of OAC rule 3745-17-11 does not apply pursuant to OAC rule 3745-17-11(A)(2)(b)(ii).
- 2.b This emissions unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(A), pursuant to OAC rule 3745-17-07(A)(3)(h), because the emissions unit is not subject to the requirements of OAC rule 3745-17-11.

II. Operational Restrictions

1. The permittee shall burn only natural gas in this emissions unit.
2. The amount of sulfur entering this emissions unit, as an hourly average for each day of operation, shall not exceed the sulfur feed rate documented during the latest SO₂ emission test for this emissions unit, or a similar emissions unit, that demonstrated compliance with the allowable SO₂ emission rate.

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.

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

2. The permittee shall maintain records of the following information for the purpose of determining the amount of sulfur fed to this emissions unit:
 - a. The permittee shall maintain daily records of the amount (in pounds) of the clay/shale raw materials processed by this emissions unit.
 - b. The permittee shall take a daily composite sample of the clay/shale raw materials and determine the sulfur content of the clay/shale raw materials entering the kiln each day. The composite sample shall be taken from the stock pile and/or the production mix, and shall consist of approximately 5 to 10 grab samples. The test method for the determination of the sulfur content in the raw materials shall be that method specified in the supplemental report submitted by Pullman-Swindell and the Belden Brick Company as prepared by John C. Jensen and dated January 30, 1981, pp. 6 and 7. Daily records shall be maintained of the sulfur content results.
 - c. The sulfur content shall be used to determine the amount of sulfur (in pounds) entering the kiln each day, based on the daily amount of clay/shale raw materials processed. Daily records shall be maintained of the amount of sulfur usage. The following formula shall be used for this determination:

pounds sulfur/day = (percent sulfur/100%) x pounds clay/shale raw materials/day
 - d. Daily records shall be maintained of the hours of operation of this emissions unit.
 - e. The permittee shall calculate and record each day the average hourly amount of sulfur fed to this emissions unit [i.e., 2.c/2.d], in pounds/hour (average).

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 each day during which the amount of sulfur entering this emissions unit, as an hourly average for each day of operation, exceeded the sulfur feed rate documented during the latest SO₂ emission test that demonstrated compliance with the allowable SO₂ emission rate, and the actual average hourly sulfur feed rate for each such day. All quarterly deviation reports shall be submitted in accordance with paragraph A.1.c of the General Terms and Conditions of this permit.

V. Testing Requirements

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

1.a Emission Limitation:

45.3 lbs/hr of sulfur dioxide

Applicable Compliance Method:

Compliance shall be demonstrated based upon the testing requirements specified in OAC rule 3745-18-04 and the methods and procedures specified in 40 CFR Part 60, Appendix A, Methods 1 through 4 and Method 6. No testing is specifically required to demonstrate compliance with this emission limit, but, if appropriate, may be requested pursuant to OAC rule 3745-15-04(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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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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: Plt 4-2 Periodic Kiln #6 (P406)

Activity Description: Plt 4-2 Periodic Kiln to P42KSSTK

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Plant 4-2, natural gas-fired periodic kiln # 6	OAC rule 3745-17-11	See A.I.2.a below.
	OAC rule 3745-17-07(A)	See A.I.2.b below.
	OAC rule 3745-18-06(E)(2)	Emissions of sulfur dioxide shall not exceed 45.3 lbs/hr.

2. Additional Terms and Conditions

- 2.a The uncontrolled mass rate of particulate emissions from this emissions unit is less than 10 pounds per hour as determined using the particulate emission factor of 0.37 lb/ton obtained from AP42, Volume I, 5th Edition, Chapter 11, Section 11.3, Table 11.3-1, dated August, 1997. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(a)(ii), Figure II of OAC rule 3745-17-11 does not apply. In addition, Table I of OAC rule 3745-17-11 does not apply pursuant to OAC rule 3745-17-11(A)(2)(b)(ii).
- 2.b This emissions unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(A), pursuant to OAC rule 3745-17-07(A)(3)(h), because the emissions unit is not subject to the requirements of OAC rule 3745-17-11.

II. Operational Restrictions

1. The permittee shall burn only natural gas in this emissions unit.
2. The amount of sulfur entering this emissions unit, as an hourly average for each day of operation, shall not exceed the sulfur feed rate documented during the latest SO₂ emission test for this emissions unit, or a similar emissions unit, that demonstrated compliance with the allowable SO₂ emission rate.

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.

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

2. The permittee shall maintain records of the following information for the purpose of determining the amount of sulfur fed to this emissions unit:
 - a. The permittee shall maintain daily records of the amount (in pounds) of the clay/shale raw materials processed by this emissions unit.
 - b. The permittee shall take a daily composite sample of the clay/shale raw materials and determine the sulfur content of the clay/shale raw materials entering the kiln each day. The composite sample shall be taken from the stock pile and/or the production mix, and shall consist of approximately 5 to 10 grab samples. The test method for the determination of the sulfur content in the raw materials shall be that method specified in the supplemental report submitted by Pullman-Swindell and the Belden Brick Company as prepared by John C. Jensen and dated January 30, 1981, pp. 6 and 7. Daily records shall be maintained of the sulfur content results.
 - c. The sulfur content shall be used to determine the amount of sulfur (in pounds) entering the kiln each day, based on the daily amount of clay/shale raw materials processed. Daily records shall be maintained of the amount of sulfur usage. The following formula shall be used for this determination:

pounds sulfur/day = (percent sulfur/100%) x pounds clay/shale raw materials/day
 - d. Daily records shall be maintained of the hours of operation of this emissions unit.
 - e. The permittee shall calculate and record each day the average hourly amount of sulfur fed to this emissions unit [i.e., 2.c/2.d], in pounds/hour (average).

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 each day during which the amount of sulfur entering this emissions unit, as an hourly average for each day of operation, exceeded the sulfur feed rate documented during the latest SO₂ emission test that demonstrated compliance with the allowable SO₂ emission rate, and the actual average hourly sulfur feed rate for each such day. All quarterly deviation reports shall be submitted in accordance with paragraph A.1.c of the General Terms and Conditions of this permit.

V. Testing Requirements

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

1.a Emission Limitation:

45.3 lbs/hr of sulfur dioxide

Applicable Compliance Method:

Compliance shall be demonstrated based upon the testing requirements specified in OAC rule 3745-18-04 and the methods and procedures specified in 40 CFR Part 60, Appendix A, Methods 1 through 4 and Method 6. No testing is specifically required to demonstrate compliance with this emission limit, but, if appropriate, may be requested pursuant to OAC rule 3745-15-04(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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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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: Plt 4-2 Periodic Kiln #7 (P407)

Activity Description: Plt 4-2 Periodic Kiln to P42KSSTK

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Plant 4-2, natural gas-fired periodic kiln # 7	OAC rule 3745-17-11	See A.I.2.a below.
	OAC rule 3745-17-07(A)	See A.I.2.b below.
	OAC rule 3745-18-06(E)(2)	Emissions of sulfur dioxide shall not exceed 45.3 lbs/hr.

2. Additional Terms and Conditions

- 2.a The uncontrolled mass rate of particulate emissions from this emissions unit is less than 10 pounds per hour as determined using the particulate emission factor of 0.37 lb/ton obtained from AP42, Volume I, 5th Edition, Chapter 11, Section 11.3, Table 11.3-1, dated August, 1997. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(a)(ii), Figure II of OAC rule 3745-17-11 does not apply. In addition, Table I of OAC rule 3745-17-11 does not apply pursuant to OAC rule 3745-17-11(A)(2)(b)(ii).
- 2.b This emissions unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(A), pursuant to OAC rule 3745-17-07(A)(3)(h), because the emissions unit is not subject to the requirements of OAC rule 3745-17-11.

II. Operational Restrictions

1. The permittee shall burn only natural gas in this emissions unit.
2. The amount of sulfur entering this emissions unit, as an hourly average for each day of operation, shall not exceed the sulfur feed rate documented during the latest SO₂ emission test for this emissions unit, or a similar emissions unit, that demonstrated compliance with the allowable SO₂ emission rate.

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.

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

2. The permittee shall maintain records of the following information for the purpose of determining the amount of sulfur fed to this emissions unit:
 - a. The permittee shall maintain daily records of the amount (in pounds) of the clay/shale raw materials processed by this emissions unit.
 - b. The permittee shall take a daily composite sample of the clay/shale raw materials and determine the sulfur content of the clay/shale raw materials entering the kiln each day. The composite sample shall be taken from the stock pile and/or the production mix, and shall consist of approximately 5 to 10 grab samples. The test method for the determination of the sulfur content in the raw materials shall be that method specified in the supplemental report submitted by Pullman-Swindell and the Belden Brick Company as prepared by John C. Jensen and dated January 30, 1981, pp. 6 and 7. Daily records shall be maintained of the sulfur content results.
 - c. The sulfur content shall be used to determine the amount of sulfur (in pounds) entering the kiln each day, based on the daily amount of clay/shale raw materials processed. Daily records shall be maintained of the amount of sulfur usage. The following formula shall be used for this determination:

pounds sulfur/day = (percent sulfur/100%) x pounds clay/shale raw materials/day
 - d. Daily records shall be maintained of the hours of operation of this emissions unit.
 - e. The permittee shall calculate and record each day the average hourly amount of sulfur fed to this emissions unit [i.e., 2.c/2.d], in pounds/hour (average).

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 each day during which the amount of sulfur entering this emissions unit, as an hourly average for each day of operation, exceeded the sulfur feed rate documented during the latest SO₂ emission test that demonstrated compliance with the allowable SO₂ emission rate, and the actual average hourly sulfur feed rate for each such day. All quarterly deviation reports shall be submitted in accordance with paragraph A.1.c of the General Terms and Conditions of this permit.

V. Testing Requirements

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

1.a Emission Limitation:

45.3 lbs/hr of sulfur dioxide

Applicable Compliance Method:

Compliance shall be demonstrated based upon the testing requirements specified in OAC rule 3745-18-04 and the methods and procedures specified in 40 CFR Part 60, Appendix A, Methods 1 through 4 and Method 6. No testing is specifically required to demonstrate compliance with this emission limit, but, if appropriate, may be requested pursuant to OAC rule 3745-15-04(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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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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: Plt 4-2 Periodic Kiln #8 (P408)

Activity Description: Plt 4-2 Periodic Kiln to P42KSSTK

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Plant 4-2, natural gas-fired periodic kiln # 8	OAC rule 3745-17-11	See A.I.2.a below.
	OAC rule 3745-17-07(A)	See A.I.2.b below.
	OAC rule 3745-18-06(E)(2)	Emissions of sulfur dioxide shall not exceed 45.3 lbs/hr.

2. Additional Terms and Conditions

- 2.a The uncontrolled mass rate of particulate emissions from this emissions unit is less than 10 pounds per hour as determined using the particulate emission factor of 0.37 lb/ton obtained from AP42, Volume I, 5th Edition, Chapter 11, Section 11.3, Table 11.3-1, dated August, 1997. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(a)(ii), Figure II of OAC rule 3745-17-11 does not apply. In addition, Table I of OAC rule 3745-17-11 does not apply pursuant to OAC rule 3745-17-11(A)(2)(b)(ii).
- 2.b This emissions unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(A), pursuant to OAC rule 3745-17-07(A)(3)(h), because the emissions unit is not subject to the requirements of OAC rule 3745-17-11.

II. Operational Restrictions

1. The permittee shall burn only natural gas in this emissions unit.
2. The amount of sulfur entering this emissions unit, as an hourly average for each day of operation, shall not exceed the sulfur feed rate documented during the latest SO2 emission test for this emissions unit, or a similar emissions unit, that demonstrated compliance with the allowable SO2 emission rate.

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.

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

2. The permittee shall maintain records of the following information for the purpose of determining the amount of sulfur fed to this emissions unit:
 - a. The permittee shall maintain daily records of the amount (in pounds) of the clay/shale raw materials processed by this emissions unit.
 - b. The permittee shall take a daily composite sample of the clay/shale raw materials and determine the sulfur content of the clay/shale raw materials entering the kiln each day. The composite sample shall be taken from the stock pile and/or the production mix, and shall consist of approximately 5 to 10 grab samples. The test method for the determination of the sulfur content in the raw materials shall be that method specified in the supplemental report submitted by Pullman-Swindell and the Belden Brick Company as prepared by John C. Jensen and dated January 30, 1981, pp. 6 and 7. Daily records shall be maintained of the sulfur content results.
 - c. The sulfur content shall be used to determine the amount of sulfur (in pounds) entering the kiln each day, based on the daily amount of clay/shale raw materials processed. Daily records shall be maintained of the amount of sulfur usage. The following formula shall be used for this determination:

$$\text{pounds sulfur/day} = (\text{percent sulfur}/100\%) \times \text{pounds clay/shale raw materials/day}$$
 - d. Daily records shall be maintained of the hours of operation of this emissions unit.
 - e. The permittee shall calculate and record each day the average hourly amount of sulfur fed to this emissions unit [i.e., 2.c/2.d], in pounds/hour (average).

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 each day during which the amount of sulfur entering this emissions unit, as an hourly average for each day of operation, exceeded the sulfur feed rate documented during the latest SO₂ emission test that demonstrated compliance with the allowable SO₂ emission rate, and the actual average hourly sulfur feed rate for each such day. All quarterly deviation reports shall be submitted in accordance with paragraph A.1.c of the General Terms and Conditions of this permit.

V. Testing Requirements

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

1.a Emission Limitation:

45.3 lbs/hr of sulfur dioxide

Applicable Compliance Method:

Compliance shall be demonstrated based upon the testing requirements specified in OAC rule 3745-18-04 and the methods and procedures specified in 40 CFR Part 60, Appendix A, Methods 1 through 4 and Method 6. No testing is specifically required to demonstrate compliance with this emission limit, but, if appropriate, may be requested pursuant to OAC rule 3745-15-04(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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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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: Plt 4-2 Periodic Kiln #9 (P409)
Activity Description: Plt 4-2 Periodic Kiln to P42KSSTK

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Plant 4-2, natural gas-fired periodic kiln # 9	OAC rule 3745-17-11	See A.I.2.a below.
	OAC rule 3745-17-07(A)	See A.I.2.b below.
	OAC rule 3745-18-06(E)(2)	Emissions of sulfur dioxide shall not exceed 45.3 lbs/hr.

2. Additional Terms and Conditions

- 2.a The uncontrolled mass rate of particulate emissions from this emissions unit is less than 10 pounds per hour as determined using the particulate emission factor of 0.37 lb/ton obtained from AP42, Volume I, 5th Edition, Chapter 11, Section 11.3, Table 11.3-1, dated August, 1997. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(a)(ii), Figure II of OAC rule 3745-17-11 does not apply. In addition, Table I of OAC rule 3745-17-11 does not apply pursuant to OAC rule 3745-17-11(A)(2)(b)(ii).
- 2.b This emissions unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(A), pursuant to OAC rule 3745-17-07(A)(3)(h), because the emissions unit is not subject to the requirements of OAC rule 3745-17-11.

II. Operational Restrictions

1. The permittee shall burn only natural gas in this emissions unit.
2. The amount of sulfur entering this emissions unit, as an hourly average for each day of operation, shall not exceed the sulfur feed rate documented during the latest SO₂ emission test for this emissions unit, or a similar emissions unit, that demonstrated compliance with the allowable SO₂ emission rate.

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.

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

2. The permittee shall maintain records of the following information for the purpose of determining the amount of sulfur fed to this emissions unit:
 - a. The permittee shall maintain daily records of the amount (in pounds) of the clay/shale raw materials processed by this emissions unit.
 - b. The permittee shall take a daily composite sample of the clay/shale raw materials and determine the sulfur content of the clay/shale raw materials entering the kiln each day. The composite sample shall be taken from the stock pile and/or the production mix, and shall consist of approximately 5 to 10 grab samples. The test method for the determination of the sulfur content in the raw materials shall be that method specified in the supplemental report submitted by Pullman-Swindell and the Belden Brick Company as prepared by John C. Jensen and dated January 30, 1981, pp. 6 and 7. Daily records shall be maintained of the sulfur content results.
 - c. The sulfur content shall be used to determine the amount of sulfur (in pounds) entering the kiln each day, based on the daily amount of clay/shale raw materials processed. Daily records shall be maintained of the amount of sulfur usage. The following formula shall be used for this determination:

pounds sulfur/day = (percent sulfur/100%) x pounds clay/shale raw materials/day
 - d. Daily records shall be maintained of the hours of operation of this emissions unit.
 - e. The permittee shall calculate and record each day the average hourly amount of sulfur fed to this emissions unit [i.e., 2.c/2.d], in pounds/hour (average).

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 each day during which the amount of sulfur entering this emissions unit, as an hourly average for each day of operation, exceeded the sulfur feed rate documented during the latest SO₂ emission test that demonstrated compliance with the allowable SO₂ emission rate, and the actual average hourly sulfur feed rate for each such day. All quarterly deviation reports shall be submitted in accordance with paragraph A.1.c of the General Terms and Conditions of this permit.

V. Testing Requirements

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

1.a Emission Limitation:

45.3 lbs/hr of sulfur dioxide

Applicable Compliance Method:

Compliance shall be demonstrated based upon the testing requirements specified in OAC rule 3745-18-04 and the methods and procedures specified in 40 CFR Part 60, Appendix A, Methods 1 through 4 and Method 6. No testing is specifically required to demonstrate compliance with this emission limit, but, if appropriate, may be requested pursuant to OAC rule 3745-15-04(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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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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: Plt 4-2 Periodic Kiln #10 (P410)
Activity Description: Plt 4-2 Periodic Kiln to P42KSSTK

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Plant 4-2, natural gas-fired periodic kiln # 10	OAC rule 3745-17-11	See A.I.2.a below.
	OAC rule 3745-17-07(A)	See A.I.2.b below.
	OAC rule 3745-18-06(E)(2)	Emissions of sulfur dioxide shall not exceed 45.3 lbs/hr.

2. Additional Terms and Conditions

- 2.a The uncontrolled mass rate of particulate emissions from this emissions unit is less than 10 pounds per hour as determined using the particulate emission factor of 0.37 lb/ton obtained from AP42, Volume I, 5th Edition, Chapter 11, Section 11.3, Table 11.3-1, dated August, 1997. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(a)(ii), Figure II of OAC rule 3745-17-11 does not apply. In addition, Table I of OAC rule 3745-17-11 does not apply pursuant to OAC rule 3745-17-11(A)(2)(b)(ii).
- 2.b This emissions unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(A), pursuant to OAC rule 3745-17-07(A)(3)(h), because the emissions unit is not subject to the requirements of OAC rule 3745-17-11.

II. Operational Restrictions

1. The permittee shall burn only natural gas in this emissions unit.
2. The amount of sulfur entering this emissions unit, as an hourly average for each day of operation, shall not exceed the sulfur feed rate documented during the latest SO₂ emission test for this emissions unit, or a similar emissions unit, that demonstrated compliance with the allowable SO₂ emission rate.

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.

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

2. The permittee shall maintain records of the following information for the purpose of determining the amount of sulfur fed to this emissions unit:
 - a. The permittee shall maintain daily records of the amount (in pounds) of the clay/shale raw materials processed by this emissions unit.
 - b. The permittee shall take a daily composite sample of the clay/shale raw materials and determine the sulfur content of the clay/shale raw materials entering the kiln each day. The composite sample shall be taken from the stock pile and/or the production mix, and shall consist of approximately 5 to 10 grab samples. The test method for the determination of the sulfur content in the raw materials shall be that method specified in the supplemental report submitted by Pullman-Swindell and the Belden Brick Company as prepared by John C. Jensen and dated January 30, 1981, pp. 6 and 7. Daily records shall be maintained of the sulfur content results.
 - c. The sulfur content shall be used to determine the amount of sulfur (in pounds) entering the kiln each day, based on the daily amount of clay/shale raw materials processed. Daily records shall be maintained of the amount of sulfur usage. The following formula shall be used for this determination:

$$\text{pounds sulfur/day} = (\text{percent sulfur}/100\%) \times \text{pounds clay/shale raw materials/day}$$
 - d. Daily records shall be maintained of the hours of operation of this emissions unit.
 - e. The permittee shall calculate and record each day the average hourly amount of sulfur fed to this emissions unit [i.e., 2.c/2.d], in pounds/hour (average).

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 each day during which the amount of sulfur entering this emissions unit, as an hourly average for each day of operation, exceeded the sulfur feed rate documented during the latest SO₂ emission test that demonstrated compliance with the allowable SO₂ emission rate, and the actual average hourly sulfur feed rate for each such day. All quarterly deviation reports shall be submitted in accordance with paragraph A.1.c of the General Terms and Conditions of this permit.

V. Testing Requirements

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

1.a Emission Limitation:

45.3 lbs/hr of sulfur dioxide

Applicable Compliance Method:

Compliance shall be demonstrated based upon the testing requirements specified in OAC rule 3745-18-04 and the methods and procedures specified in 40 CFR Part 60, Appendix A, Methods 1 through 4 and Method 6. No testing is specifically required to demonstrate compliance with this emission limit, but, if appropriate, may be requested pursuant to OAC rule 3745-15-04(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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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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: Plt 4-2 Periodic Kiln #11 (P411)
Activity Description: Plt 4-2 Periodic Kiln to P42KNSTK

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Plant 4-2, natural gas-fired periodic kiln # 11	OAC rule 3745-17-11	See A.I.2.a below.
	OAC rule 3745-17-07(A)	See A.I.2.b below.
	OAC rule 3745-18-06(E)(2)	Emissions of sulfur dioxide shall not exceed 45.3 lbs/hr.

2. Additional Terms and Conditions

- 2.a The uncontrolled mass rate of particulate emissions from this emissions unit is less than 10 pounds per hour as determined using the particulate emission factor of 0.37 lb/ton obtained from AP42, Volume I, 5th Edition, Chapter 11, Section 11.3, Table 11.3-1, dated August, 1997. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(a)(ii), Figure II of OAC rule 3745-17-11 does not apply. In addition, Table I of OAC rule 3745-17-11 does not apply pursuant to OAC rule 3745-17-11(A)(2)(b)(ii).
- 2.b This emissions unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(A), pursuant to OAC rule 3745-17-07(A)(3)(h), because the emissions unit is not subject to the requirements of OAC rule 3745-17-11.

II. Operational Restrictions

1. The permittee shall burn only natural gas in this emissions unit.
2. The amount of sulfur entering this emissions unit, as an hourly average for each day of operation, shall not exceed the sulfur feed rate documented during the latest SO2 emission test for this emissions unit, or a similar emissions unit, that demonstrated compliance with the allowable SO2 emission rate.

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.

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

2. The permittee shall maintain records of the following information for the purpose of determining the amount of sulfur fed to this emissions unit:
 - a. The permittee shall maintain daily records of the amount (in pounds) of the clay/shale raw materials processed by this emissions unit.
 - b. The permittee shall take a daily composite sample of the clay/shale raw materials and determine the sulfur content of the clay/shale raw materials entering the kiln each day. The composite sample shall be taken from the stock pile and/or the production mix, and shall consist of approximately 5 to 10 grab samples. The test method for the determination of the sulfur content in the raw materials shall be that method specified in the supplemental report submitted by Pullman-Swindell and the Belden Brick Company as prepared by John C. Jensen and dated January 30, 1981, pp. 6 and 7. Daily records shall be maintained of the sulfur content results.
 - c. The sulfur content shall be used to determine the amount of sulfur (in pounds) entering the kiln each day, based on the daily amount of clay/shale raw materials processed. Daily records shall be maintained of the amount of sulfur usage. The following formula shall be used for this determination:

pounds sulfur/day = (percent sulfur/100%) x pounds clay/shale raw materials/day
 - d. Daily records shall be maintained of the hours of operation of this emissions unit.
 - e. The permittee shall calculate and record each day the average hourly amount of sulfur fed to this emissions unit [i.e., 2.c/2.d], in pounds/hour (average).

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 each day during which the amount of sulfur entering this emissions unit, as an hourly average for each day of operation, exceeded the sulfur feed rate documented during the latest SO₂ emission test that demonstrated compliance with the allowable SO₂ emission rate, and the actual average hourly sulfur feed rate for each such day. All quarterly deviation reports shall be submitted in accordance with paragraph A.1.c of the General Terms and Conditions of this permit.

V. Testing Requirements

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

1.a Emission Limitation:

45.3 lbs/hr of sulfur dioxide

Applicable Compliance Method:

Compliance shall be demonstrated based upon the testing requirements specified in OAC rule 3745-18-04 and the methods and procedures specified in 40 CFR Part 60, Appendix A, Methods 1 through 4 and Method 6. No testing is specifically required to demonstrate compliance with this emission limit, but, if appropriate, may be requested pursuant to OAC rule 3745-15-04(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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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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: Plt 4-2 Periodic Kiln #12 (P412)
Activity Description: Plt 4-2 Periodic Kiln to P42KNSTK

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Plant 4-2, natural gas-fired periodic kiln # 12	OAC rule 3745-17-11	See A.I.2.a below.
	OAC rule 3745-17-07(A)	See A.I.2.b below.
	OAC rule 3745-18-06(E)(2)	Emissions of sulfur dioxide shall not exceed 45.3 lbs/hr.

2. Additional Terms and Conditions

- 2.a The uncontrolled mass rate of particulate emissions from this emissions unit is less than 10 pounds per hour as determined using the particulate emission factor of 0.37 lb/ton obtained from AP42, Volume I, 5th Edition, Chapter 11, Section 11.3, Table 11.3-1, dated August, 1997. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(a)(ii), Figure II of OAC rule 3745-17-11 does not apply. In addition, Table I of OAC rule 3745-17-11 does not apply pursuant to OAC rule 3745-17-11(A)(2)(b)(ii).
- 2.b This emissions unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(A), pursuant to OAC rule 3745-17-07(A)(3)(h), because the emissions unit is not subject to the requirements of OAC rule 3745-17-11.

II. Operational Restrictions

1. The permittee shall burn only natural gas in this emissions unit.
2. The amount of sulfur entering this emissions unit, as an hourly average for each day of operation, shall not exceed the sulfur feed rate documented during the latest SO2 emission test for this emissions unit, or a similar emissions unit, that demonstrated compliance with the allowable SO2 emission rate.

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.

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

2. The permittee shall maintain records of the following information for the purpose of determining the amount of sulfur fed to this emissions unit:
 - a. The permittee shall maintain daily records of the amount (in pounds) of the clay/shale raw materials processed by this emissions unit.
 - b. The permittee shall take a daily composite sample of the clay/shale raw materials and determine the sulfur content of the clay/shale raw materials entering the kiln each day. The composite sample shall be taken from the stock pile and/or the production mix, and shall consist of approximately 5 to 10 grab samples. The test method for the determination of the sulfur content in the raw materials shall be that method specified in the supplemental report submitted by Pullman-Swindell and the Belden Brick Company as prepared by John C. Jensen and dated January 30, 1981, pp. 6 and 7. Daily records shall be maintained of the sulfur content results.
 - c. The sulfur content shall be used to determine the amount of sulfur (in pounds) entering the kiln each day, based on the daily amount of clay/shale raw materials processed. Daily records shall be maintained of the amount of sulfur usage. The following formula shall be used for this determination:

pounds sulfur/day = (percent sulfur/100%) x pounds clay/shale raw materials/day
 - d. Daily records shall be maintained of the hours of operation of this emissions unit.
 - e. The permittee shall calculate and record each day the average hourly amount of sulfur fed to this emissions unit [i.e., 2.c/2.d], in pounds/hour (average).

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 each day during which the amount of sulfur entering this emissions unit, as an hourly average for each day of operation, exceeded the sulfur feed rate documented during the latest SO₂ emission test that demonstrated compliance with the allowable SO₂ emission rate, and the actual average hourly sulfur feed rate for each such day. All quarterly deviation reports shall be submitted in accordance with paragraph A.1.c of the General Terms and Conditions of this permit.

V. Testing Requirements

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

1.a Emission Limitation:

45.3 lbs/hr of sulfur dioxide

Applicable Compliance Method:

Compliance shall be demonstrated based upon the testing requirements specified in OAC rule 3745-18-04 and the methods and procedures specified in 40 CFR Part 60, Appendix A, Methods 1 through 4 and Method 6. No testing is specifically required to demonstrate compliance with this emission limit, but, if appropriate, may be requested pursuant to OAC rule 3745-15-04(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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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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: Plt 4-2 Periodic Kiln #13 (P413)
Activity Description: Plt 4-2 Periodic Kiln to P42KNSTK

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Plant 4-2, natural gas-fired periodic kiln # 13	OAC rule 3745-17-11	See A.I.2.a below.
	OAC rule 3745-17-07(A)	See A.I.2.b below.
	OAC rule 3745-18-06(E)(2)	Emissions of sulfur dioxide shall not exceed 45.3 lbs/hr.

2. Additional Terms and Conditions

- 2.a The uncontrolled mass rate of particulate emissions from this emissions unit is less than 10 pounds per hour as determined using the particulate emission factor of 0.37 lb/ton obtained from AP42, Volume I, 5th Edition, Chapter 11, Section 11.3, Table 11.3-1, dated August, 1997. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(a)(ii), Figure II of OAC rule 3745-17-11 does not apply. In addition, Table I of OAC rule 3745-17-11 does not apply pursuant to OAC rule 3745-17-11(A)(2)(b)(ii).
- 2.b This emissions unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(A), pursuant to OAC rule 3745-17-07(A)(3)(h), because the emissions unit is not subject to the requirements of OAC rule 3745-17-11.

II. Operational Restrictions

1. The permittee shall burn only natural gas in this emissions unit.
2. The amount of sulfur entering this emissions unit, as an hourly average for each day of operation, shall not exceed the sulfur feed rate documented during the latest SO₂ emission test for this emissions unit, or a similar emissions unit, that demonstrated compliance with the allowable SO₂ emission rate.

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.

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

2. The permittee shall maintain records of the following information for the purpose of determining the amount of sulfur fed to this emissions unit:
 - a. The permittee shall maintain daily records of the amount (in pounds) of the clay/shale raw materials processed by this emissions unit.
 - b. The permittee shall take a daily composite sample of the clay/shale raw materials and determine the sulfur content of the clay/shale raw materials entering the kiln each day. The composite sample shall be taken from the stock pile and/or the production mix, and shall consist of approximately 5 to 10 grab samples. The test method for the determination of the sulfur content in the raw materials shall be that method specified in the supplemental report submitted by Pullman-Swindell and the Belden Brick Company as prepared by John C. Jensen and dated January 30, 1981, pp. 6 and 7. Daily records shall be maintained of the sulfur content results.
 - c. The sulfur content shall be used to determine the amount of sulfur (in pounds) entering the kiln each day, based on the daily amount of clay/shale raw materials processed. Daily records shall be maintained of the amount of sulfur usage. The following formula shall be used for this determination:

pounds sulfur/day = (percent sulfur/100%) x pounds clay/shale raw materials/day
 - d. Daily records shall be maintained of the hours of operation of this emissions unit.
 - e. The permittee shall calculate and record each day the average hourly amount of sulfur fed to this emissions unit [i.e., 2.c/2.d], in pounds/hour (average).

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 each day during which the amount of sulfur entering this emissions unit, as an hourly average for each day of operation, exceeded the sulfur feed rate documented during the latest SO₂ emission test that demonstrated compliance with the allowable SO₂ emission rate, and the actual average hourly sulfur feed rate for each such day. All quarterly deviation reports shall be submitted in accordance with paragraph A.1.c of the General Terms and Conditions of this permit.

V. Testing Requirements

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

1.a Emission Limitation:

45.3 lbs/hr of sulfur dioxide

Applicable Compliance Method:

Compliance shall be demonstrated based upon the testing requirements specified in OAC rule 3745-18-04 and the methods and procedures specified in 40 CFR Part 60, Appendix A, Methods 1 through 4 and Method 6. No testing is specifically required to demonstrate compliance with this emission limit, but, if appropriate, may be requested pursuant to OAC rule 3745-15-04(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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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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: Plt 4-2 Periodic Kiln #14 (P414)
Activity Description: Plt 4-2 Periodic Kiln to P42KNSTK

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Plant 4-2, natural gas-fired periodic kiln # 14	OAC rule 3745-17-11	See A.I.2.a below.
	OAC rule 3745-17-07(A)	See A.I.2.b below.
	OAC rule 3745-18-06(E)(2)	Emissions of sulfur dioxide shall not exceed 45.3 lbs/hr.

2. Additional Terms and Conditions

- 2.a The uncontrolled mass rate of particulate emissions from this emissions unit is less than 10 pounds per hour as determined using the particulate emission factor of 0.37 lb/ton obtained from AP42, Volume I, 5th Edition, Chapter 11, Section 11.3, Table 11.3-1, dated August, 1997. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(a)(ii), Figure II of OAC rule 3745-17-11 does not apply. In addition, Table I of OAC rule 3745-17-11 does not apply pursuant to OAC rule 3745-17-11(A)(2)(b)(ii).
- 2.b This emissions unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(A), pursuant to OAC rule 3745-17-07(A)(3)(h), because the emissions unit is not subject to the requirements of OAC rule 3745-17-11.

II. Operational Restrictions

1. The permittee shall burn only natural gas in this emissions unit.
2. The amount of sulfur entering this emissions unit, as an hourly average for each day of operation, shall not exceed the sulfur feed rate documented during the latest SO₂ emission test for this emissions unit, or a similar emissions unit, that demonstrated compliance with the allowable SO₂ emission rate.

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.

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

2. The permittee shall maintain records of the following information for the purpose of determining the amount of sulfur fed to this emissions unit:
 - a. The permittee shall maintain daily records of the amount (in pounds) of the clay/shale raw materials processed by this emissions unit.
 - b. The permittee shall take a daily composite sample of the clay/shale raw materials and determine the sulfur content of the clay/shale raw materials entering the kiln each day. The composite sample shall be taken from the stock pile and/or the production mix, and shall consist of approximately 5 to 10 grab samples. The test method for the determination of the sulfur content in the raw materials shall be that method specified in the supplemental report submitted by Pullman-Swindell and the Belden Brick Company as prepared by John C. Jensen and dated January 30, 1981, pp. 6 and 7. Daily records shall be maintained of the sulfur content results.
 - c. The sulfur content shall be used to determine the amount of sulfur (in pounds) entering the kiln each day, based on the daily amount of clay/shale raw materials processed. Daily records shall be maintained of the amount of sulfur usage. The following formula shall be used for this determination:

$$\text{pounds sulfur/day} = (\text{percent sulfur}/100\%) \times \text{pounds clay/shale raw materials/day}$$
 - d. Daily records shall be maintained of the hours of operation of this emissions unit.
 - e. The permittee shall calculate and record each day the average hourly amount of sulfur fed to this emissions unit [i.e., 2.c/2.d], in pounds/hour (average).

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 each day during which the amount of sulfur entering this emissions unit, as an hourly average for each day of operation, exceeded the sulfur feed rate documented during the latest SO₂ emission test that demonstrated compliance with the allowable SO₂ emission rate, and the actual average hourly sulfur feed rate for each such day. All quarterly deviation reports shall be submitted in accordance with paragraph A.1.c of the General Terms and Conditions of this permit.

V. Testing Requirements

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

1.a Emission Limitation:

45.3 lbs/hr of sulfur dioxide

Applicable Compliance Method:

Compliance shall be demonstrated based upon the testing requirements specified in OAC rule 3745-18-04 and the methods and procedures specified in 40 CFR Part 60, Appendix A, Methods 1 through 4 and Method 6. No testing is specifically required to demonstrate compliance with this emission limit, but, if appropriate, may be requested pursuant to OAC rule 3745-15-04(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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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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: Plt 4-2 Periodic Kiln #15 (P415)
Activity Description: Plt 4-2 Periodic Kiln to P42KNSTK

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Plant 4-2, natural gas-fired periodic kiln # 15	OAC rule 3745-17-11	See A.I.2.a below.
	OAC rule 3745-17-07(A)	See A.I.2.b below.
	OAC rule 3745-18-06(E)(2)	Emissions of sulfur dioxide shall not exceed 45.3 lbs/hr.

2. Additional Terms and Conditions

- 2.a The uncontrolled mass rate of particulate emissions from this emissions unit is less than 10 pounds per hour as determined using the particulate emission factor of 0.37 lb/ton obtained from AP42, Volume I, 5th Edition, Chapter 11, Section 11.3, Table 11.3-1, dated August, 1997. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(a)(ii), Figure II of OAC rule 3745-17-11 does not apply. In addition, Table I of OAC rule 3745-17-11 does not apply pursuant to OAC rule 3745-17-11(A)(2)(b)(ii).
- 2.b This emissions unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(A), pursuant to OAC rule 3745-17-07(A)(3)(h), because the emissions unit is not subject to the requirements of OAC rule 3745-17-11.

II. Operational Restrictions

1. The permittee shall burn only natural gas in this emissions unit.
2. The amount of sulfur entering this emissions unit, as an hourly average for each day of operation, shall not exceed the sulfur feed rate documented during the latest SO₂ emission test for this emissions unit, or a similar emissions unit, that demonstrated compliance with the allowable SO₂ emission rate.

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.

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

2. The permittee shall maintain records of the following information for the purpose of determining the amount of sulfur fed to this emissions unit:
 - a. The permittee shall maintain daily records of the amount (in pounds) of the clay/shale raw materials processed by this emissions unit.
 - b. The permittee shall take a daily composite sample of the clay/shale raw materials and determine the sulfur content of the clay/shale raw materials entering the kiln each day. The composite sample shall be taken from the stock pile and/or the production mix, and shall consist of approximately 5 to 10 grab samples. The test method for the determination of the sulfur content in the raw materials shall be that method specified in the supplemental report submitted by Pullman-Swindell and the Belden Brick Company as prepared by John C. Jensen and dated January 30, 1981, pp. 6 and 7. Daily records shall be maintained of the sulfur content results.
 - c. The sulfur content shall be used to determine the amount of sulfur (in pounds) entering the kiln each day, based on the daily amount of clay/shale raw materials processed. Daily records shall be maintained of the amount of sulfur usage. The following formula shall be used for this determination:

pounds sulfur/day = (percent sulfur/100%) x pounds clay/shale raw materials/day
 - d. Daily records shall be maintained of the hours of operation of this emissions unit.
 - e. The permittee shall calculate and record each day the average hourly amount of sulfur fed to this emissions unit [i.e., 2.c/2.d], in pounds/hour (average).

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 each day during which the amount of sulfur entering this emissions unit, as an hourly average for each day of operation, exceeded the sulfur feed rate documented during the latest SO₂ emission test that demonstrated compliance with the allowable SO₂ emission rate, and the actual average hourly sulfur feed rate for each such day. All quarterly deviation reports shall be submitted in accordance with paragraph A.1.c of the General Terms and Conditions of this permit.

V. Testing Requirements

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

1.a Emission Limitation:

45.3 lbs/hr of sulfur dioxide

Applicable Compliance Method:

Compliance shall be demonstrated based upon the testing requirements specified in OAC rule 3745-18-04 and the methods and procedures specified in 40 CFR Part 60, Appendix A, Methods 1 through 4 and Method 6. No testing is specifically required to demonstrate compliance with this emission limit, but, if appropriate, may be requested pursuant to OAC rule 3745-15-04(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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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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: Plt 4-2 Periodic Kiln #16 (P416)
Activity Description: Plt 4-2 Periodic Kiln to P42KNSTK

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Plant 4-2, natural gas-fired periodic kiln # 16	OAC rule 3745-17-11	See A.I.2.a below.
	OAC rule 3745-17-07(A)	See A.I.2.b below.
	OAC rule 3745-18-06(E)(2)	Emissions of sulfur dioxide shall not exceed 45.3 lbs/hr.

2. Additional Terms and Conditions

- 2.a The uncontrolled mass rate of particulate emissions from this emissions unit is less than 10 pounds per hour as determined using the particulate emission factor of 0.37 lb/ton obtained from AP42, Volume I, 5th Edition, Chapter 11, Section 11.3, Table 11.3-1, dated August, 1997. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(a)(ii), Figure II of OAC rule 3745-17-11 does not apply. In addition, Table I of OAC rule 3745-17-11 does not apply pursuant to OAC rule 3745-17-11(A)(2)(b)(ii).
- 2.b This emissions unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(A), pursuant to OAC rule 3745-17-07(A)(3)(h), because the emissions unit is not subject to the requirements of OAC rule 3745-17-11.

II. Operational Restrictions

1. The permittee shall burn only natural gas in this emissions unit.
2. The amount of sulfur entering this emissions unit, as an hourly average for each day of operation, shall not exceed the sulfur feed rate documented during the latest SO₂ emission test for this emissions unit, or a similar emissions unit, that demonstrated compliance with the allowable SO₂ emission rate.

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.

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

2. The permittee shall maintain records of the following information for the purpose of determining the amount of sulfur fed to this emissions unit:
 - a. The permittee shall maintain daily records of the amount (in pounds) of the clay/shale raw materials processed by this emissions unit.
 - b. The permittee shall take a daily composite sample of the clay/shale raw materials and determine the sulfur content of the clay/shale raw materials entering the kiln each day. The composite sample shall be taken from the stock pile and/or the production mix, and shall consist of approximately 5 to 10 grab samples. The test method for the determination of the sulfur content in the raw materials shall be that method specified in the supplemental report submitted by Pullman-Swindell and the Belden Brick Company as prepared by John C. Jensen and dated January 30, 1981, pp. 6 and 7. Daily records shall be maintained of the sulfur content results.
 - c. The sulfur content shall be used to determine the amount of sulfur (in pounds) entering the kiln each day, based on the daily amount of clay/shale raw materials processed. Daily records shall be maintained of the amount of sulfur usage. The following formula shall be used for this determination:

$$\text{pounds sulfur/day} = (\text{percent sulfur}/100\%) \times \text{pounds clay/shale raw materials/day}$$
 - d. Daily records shall be maintained of the hours of operation of this emissions unit.
 - e. The permittee shall calculate and record each day the average hourly amount of sulfur fed to this emissions unit [i.e., 2.c/2.d], in pounds/hour (average).

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 each day during which the amount of sulfur entering this emissions unit, as an hourly average for each day of operation, exceeded the sulfur feed rate documented during the latest SO₂ emission test that demonstrated compliance with the allowable SO₂ emission rate, and the actual average hourly sulfur feed rate for each such day. All quarterly deviation reports shall be submitted in accordance with paragraph A.1.c of the General Terms and Conditions of this permit.

V. Testing Requirements

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

1.a Emission Limitation:

45.3 lbs/hr of sulfur dioxide

Applicable Compliance Method:

Compliance shall be demonstrated based upon the testing requirements specified in OAC rule 3745-18-04 and the methods and procedures specified in 40 CFR Part 60, Appendix A, Methods 1 through 4 and Method 6. No testing is specifically required to demonstrate compliance with this emission limit, but, if appropriate, may be requested pursuant to OAC rule 3745-15-04(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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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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: Plt 4-2 Periodic Kiln #17 (P417)
Activity Description: Plt 4-2 Periodic Kiln to P42KNSTK

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Plant 4-2, natural gas-fired periodic kiln # 17	OAC rule 3745-17-11	See A.I.2.a below.
	OAC rule 3745-17-07(A)	See A.I.2.b below.
	OAC rule 3745-18-06(E)(2)	Emissions of sulfur dioxide shall not exceed 45.3 lbs/hr.

2. Additional Terms and Conditions

- 2.a The uncontrolled mass rate of particulate emissions from this emissions unit is less than 10 pounds per hour as determined using the particulate emission factor of 0.37 lb/ton obtained from AP42, Volume I, 5th Edition, Chapter 11, Section 11.3, Table 11.3-1, dated August, 1997. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(a)(ii), Figure II of OAC rule 3745-17-11 does not apply. In addition, Table I of OAC rule 3745-17-11 does not apply pursuant to OAC rule 3745-17-11(A)(2)(b)(ii).
- 2.b This emissions unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(A), pursuant to OAC rule 3745-17-07(A)(3)(h), because the emissions unit is not subject to the requirements of OAC rule 3745-17-11.

II. Operational Restrictions

1. The permittee shall burn only natural gas in this emissions unit.
2. The amount of sulfur entering this emissions unit, as an hourly average for each day of operation, shall not exceed the sulfur feed rate documented during the latest SO₂ emission test for this emissions unit, or a similar emissions unit, that demonstrated compliance with the allowable SO₂ emission rate.

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.

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

2. The permittee shall maintain records of the following information for the purpose of determining the amount of sulfur fed to this emissions unit:
 - a. The permittee shall maintain daily records of the amount (in pounds) of the clay/shale raw materials processed by this emissions unit.
 - b. The permittee shall take a daily composite sample of the clay/shale raw materials and determine the sulfur content of the clay/shale raw materials entering the kiln each day. The composite sample shall be taken from the stock pile and/or the production mix, and shall consist of approximately 5 to 10 grab samples. The test method for the determination of the sulfur content in the raw materials shall be that method specified in the supplemental report submitted by Pullman-Swindell and the Belden Brick Company as prepared by John C. Jensen and dated January 30, 1981, pp. 6 and 7. Daily records shall be maintained of the sulfur content results.
 - c. The sulfur content shall be used to determine the amount of sulfur (in pounds) entering the kiln each day, based on the daily amount of clay/shale raw materials processed. Daily records shall be maintained of the amount of sulfur usage. The following formula shall be used for this determination:

pounds sulfur/day = (percent sulfur/100%) x pounds clay/shale raw materials/day
 - d. Daily records shall be maintained of the hours of operation of this emissions unit.
 - e. The permittee shall calculate and record each day the average hourly amount of sulfur fed to this emissions unit [i.e., 2.c/2.d], in pounds/hour (average).

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 each day during which the amount of sulfur entering this emissions unit, as an hourly average for each day of operation, exceeded the sulfur feed rate documented during the latest SO₂ emission test that demonstrated compliance with the allowable SO₂ emission rate, and the actual average hourly sulfur feed rate for each such day. All quarterly deviation reports shall be submitted in accordance with paragraph A.1.c of the General Terms and Conditions of this permit.

V. Testing Requirements

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

1.a Emission Limitation:

45.3 lbs/hr of sulfur dioxide

Applicable Compliance Method:

Compliance shall be demonstrated based upon the testing requirements specified in OAC rule 3745-18-04 and the methods and procedures specified in 40 CFR Part 60, Appendix A, Methods 1 through 4 and Method 6. No testing is specifically required to demonstrate compliance with this emission limit, but, if appropriate, may be requested pursuant to OAC rule 3745-15-04(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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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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: Plt 4-2 Periodic Kiln #18 (P418)
Activity Description: Plt 4-2 Periodic Kiln to P42KNSTK

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Plant 4-2, natural gas-fired periodic kiln # 18	OAC rule 3745-17-11	See A.I.2.a below.
	OAC rule 3745-17-07(A)	See A.I.2.b below.
	OAC rule 3745-18-06(E)(2)	Emissions of sulfur dioxide shall not exceed 45.3 lbs/hr.

2. Additional Terms and Conditions

- 2.a The uncontrolled mass rate of particulate emissions from this emissions unit is less than 10 pounds per hour as determined using the particulate emission factor of 0.37 lb/ton obtained from AP42, Volume I, 5th Edition, Chapter 11, Section 11.3, Table 11.3-1, dated August, 1997. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(a)(ii), Figure II of OAC rule 3745-17-11 does not apply. In addition, Table I of OAC rule 3745-17-11 does not apply pursuant to OAC rule 3745-17-11(A)(2)(b)(ii).
- 2.b This emissions unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(A), pursuant to OAC rule 3745-17-07(A)(3)(h), because the emissions unit is not subject to the requirements of OAC rule 3745-17-11.

II. Operational Restrictions

1. The permittee shall burn only natural gas in this emissions unit.
2. The amount of sulfur entering this emissions unit, as an hourly average for each day of operation, shall not exceed the sulfur feed rate documented during the latest SO₂ emission test for this emissions unit, or a similar emissions unit, that demonstrated compliance with the allowable SO₂ emission rate.

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.

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

2. The permittee shall maintain records of the following information for the purpose of determining the amount of sulfur fed to this emissions unit:
 - a. The permittee shall maintain daily records of the amount (in pounds) of the clay/shale raw materials processed by this emissions unit.
 - b. The permittee shall take a daily composite sample of the clay/shale raw materials and determine the sulfur content of the clay/shale raw materials entering the kiln each day. The composite sample shall be taken from the stock pile and/or the production mix, and shall consist of approximately 5 to 10 grab samples. The test method for the determination of the sulfur content in the raw materials shall be that method specified in the supplemental report submitted by Pullman-Swindell and the Belden Brick Company as prepared by John C. Jensen and dated January 30, 1981, pp. 6 and 7. Daily records shall be maintained of the sulfur content results.
 - c. The sulfur content shall be used to determine the amount of sulfur (in pounds) entering the kiln each day, based on the daily amount of clay/shale raw materials processed. Daily records shall be maintained of the amount of sulfur usage. The following formula shall be used for this determination:

pounds sulfur/day = (percent sulfur/100%) x pounds clay/shale raw materials/day
 - d. Daily records shall be maintained of the hours of operation of this emissions unit.
 - e. The permittee shall calculate and record each day the average hourly amount of sulfur fed to this emissions unit [i.e., 2.c/2.d], in pounds/hour (average).

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 each day during which the amount of sulfur entering this emissions unit, as an hourly average for each day of operation, exceeded the sulfur feed rate documented during the latest SO₂ emission test that demonstrated compliance with the allowable SO₂ emission rate, and the actual average hourly sulfur feed rate for each such day. All quarterly deviation reports shall be submitted in accordance with paragraph A.1.c of the General Terms and Conditions of this permit.

V. Testing Requirements

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

1.a Emission Limitation:

45.3 lbs/hr of sulfur dioxide

Applicable Compliance Method:

Compliance shall be demonstrated based upon the testing requirements specified in OAC rule 3745-18-04 and the methods and procedures specified in 40 CFR Part 60, Appendix A, Methods 1 through 4 and Method 6. No testing is specifically required to demonstrate compliance with this emission limit, but, if appropriate, may be requested pursuant to OAC rule 3745-15-04(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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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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: Plt 4-2 Periodic Kiln #19 (P419)
Activity Description: Plt 4-2 Periodic Kiln to P42KNSTK

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Plant 4-2, natural gas-fired periodic kiln # 19	OAC rule 3745-17-11	See A.I.2.a below.
	OAC rule 3745-17-07(A)	See A.I.2.b below.
	OAC rule 3745-18-06(E)(2)	Emissions of sulfur dioxide shall not exceed 45.3 lbs/hr.

2. Additional Terms and Conditions

- 2.a The uncontrolled mass rate of particulate emissions from this emissions unit is less than 10 pounds per hour as determined using the particulate emission factor of 0.37 lb/ton obtained from AP42, Volume I, 5th Edition, Chapter 11, Section 11.3, Table 11.3-1, dated August, 1997. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(a)(ii), Figure II of OAC rule 3745-17-11 does not apply. In addition, Table I of OAC rule 3745-17-11 does not apply pursuant to OAC rule 3745-17-11(A)(2)(b)(ii).
- 2.b This emissions unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(A), pursuant to OAC rule 3745-17-07(A)(3)(h), because the emissions unit is not subject to the requirements of OAC rule 3745-17-11.

II. Operational Restrictions

1. The permittee shall burn only natural gas in this emissions unit.
2. The amount of sulfur entering this emissions unit, as an hourly average for each day of operation, shall not exceed the sulfur feed rate documented during the latest SO₂ emission test for this emissions unit, or a similar emissions unit, that demonstrated compliance with the allowable SO₂ emission rate.

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.

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

2. The permittee shall maintain records of the following information for the purpose of determining the amount of sulfur fed to this emissions unit:
 - a. The permittee shall maintain daily records of the amount (in pounds) of the clay/shale raw materials processed by this emissions unit.
 - b. The permittee shall take a daily composite sample of the clay/shale raw materials and determine the sulfur content of the clay/shale raw materials entering the kiln each day. The composite sample shall be taken from the stock pile and/or the production mix, and shall consist of approximately 5 to 10 grab samples. The test method for the determination of the sulfur content in the raw materials shall be that method specified in the supplemental report submitted by Pullman-Swindell and the Belden Brick Company as prepared by John C. Jensen and dated January 30, 1981, pp. 6 and 7. Daily records shall be maintained of the sulfur content results.
 - c. The sulfur content shall be used to determine the amount of sulfur (in pounds) entering the kiln each day, based on the daily amount of clay/shale raw materials processed. Daily records shall be maintained of the amount of sulfur usage. The following formula shall be used for this determination:

pounds sulfur/day = (percent sulfur/100%) x pounds clay/shale raw materials/day
 - d. Daily records shall be maintained of the hours of operation of this emissions unit.
 - e. The permittee shall calculate and record each day the average hourly amount of sulfur fed to this emissions unit [i.e., 2.c/2.d], in pounds/hour (average).

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 each day during which the amount of sulfur entering this emissions unit, as an hourly average for each day of operation, exceeded the sulfur feed rate documented during the latest SO₂ emission test that demonstrated compliance with the allowable SO₂ emission rate, and the actual average hourly sulfur feed rate for each such day. All quarterly deviation reports shall be submitted in accordance with paragraph A.1.c of the General Terms and Conditions of this permit.

V. Testing Requirements

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

1.a Emission Limitation:

45.3 lbs/hr of sulfur dioxide

Applicable Compliance Method:

Compliance shall be demonstrated based upon the testing requirements specified in OAC rule 3745-18-04 and the methods and procedures specified in 40 CFR Part 60, Appendix A, Methods 1 through 4 and Method 6. No testing is specifically required to demonstrate compliance with this emission limit, but, if appropriate, may be requested pursuant to OAC rule 3745-15-04(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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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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: Plt 4-2 Periodic Kiln #20 (P420)
Activity Description: Plt 4-2 Periodic Kiln to P42KNSTK

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Plant 4-2, natural gas-fired periodic kiln # 20	OAC rule 3745-17-11	See A.I.2.a below.
	OAC rule 3745-17-07(A)	See A.I.2.b below.
	OAC rule 3745-18-06(E)(2)	Emissions of sulfur dioxide shall not exceed 45.3 lbs/hr.

2. Additional Terms and Conditions

- 2.a The uncontrolled mass rate of particulate emissions from this emissions unit is less than 10 pounds per hour as determined using the particulate emission factor of 0.37 lb/ton obtained from AP42, Volume I, 5th Edition, Chapter 11, Section 11.3, Table 11.3-1, dated August, 1997. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(a)(ii), Figure II of OAC rule 3745-17-11 does not apply. In addition, Table I of OAC rule 3745-17-11 does not apply pursuant to OAC rule 3745-17-11(A)(2)(b)(ii).
- 2.b This emissions unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(A), pursuant to OAC rule 3745-17-07(A)(3)(h), because the emissions unit is not subject to the requirements of OAC rule 3745-17-11.

II. Operational Restrictions

1. The permittee shall burn only natural gas in this emissions unit.
2. The amount of sulfur entering this emissions unit, as an hourly average for each day of operation, shall not exceed the sulfur feed rate documented during the latest SO₂ emission test for this emissions unit, or a similar emissions unit, that demonstrated compliance with the allowable SO₂ emission rate.

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.

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

2. The permittee shall maintain records of the following information for the purpose of determining the amount of sulfur fed to this emissions unit:
 - a. The permittee shall maintain daily records of the amount (in pounds) of the clay/shale raw materials processed by this emissions unit.
 - b. The permittee shall take a daily composite sample of the clay/shale raw materials and determine the sulfur content of the clay/shale raw materials entering the kiln each day. The composite sample shall be taken from the stock pile and/or the production mix, and shall consist of approximately 5 to 10 grab samples. The test method for the determination of the sulfur content in the raw materials shall be that method specified in the supplemental report submitted by Pullman-Swindell and the Belden Brick Company as prepared by John C. Jensen and dated January 30, 1981, pp. 6 and 7. Daily records shall be maintained of the sulfur content results.
 - c. The sulfur content shall be used to determine the amount of sulfur (in pounds) entering the kiln each day, based on the daily amount of clay/shale raw materials processed. Daily records shall be maintained of the amount of sulfur usage. The following formula shall be used for this determination:

pounds sulfur/day = (percent sulfur/100%) x pounds clay/shale raw materials/day
 - d. Daily records shall be maintained of the hours of operation of this emissions unit.
 - e. The permittee shall calculate and record each day the average hourly amount of sulfur fed to this emissions unit [i.e., 2.c/2.d], in pounds/hour (average).

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 each day during which the amount of sulfur entering this emissions unit, as an hourly average for each day of operation, exceeded the sulfur feed rate documented during the latest SO₂ emission test that demonstrated compliance with the allowable SO₂ emission rate, and the actual average hourly sulfur feed rate for each such day. All quarterly deviation reports shall be submitted in accordance with paragraph A.1.c of the General Terms and Conditions of this permit.

V. Testing Requirements

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

1.a Emission Limitation:

45.3 lbs/hr of sulfur dioxide

Applicable Compliance Method:

Compliance shall be demonstrated based upon the testing requirements specified in OAC rule 3745-18-04 and the methods and procedures specified in 40 CFR Part 60, Appendix A, Methods 1 through 4 and Method 6. No testing is specifically required to demonstrate compliance with this emission limit, but, if appropriate, may be requested pursuant to OAC rule 3745-15-04(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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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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: Plt 6 Tunnel Kiln #1 (P601)
Activity Description: Plt 6 Tunnel Kiln # 1 to P6K1STK

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Plant 6, natural gas-fired tunnel kiln # 1	OAC rule 3745-17-11	See A.I.2.a below.
	OAC rule 3745-17-07(A)	See A.I.2.b below.
	OAC rule 3745-18-06(E)(2)	Emissions of sulfur dioxide shall not exceed 91.9 lbs/hr.

2. Additional Terms and Conditions

- 2.a The uncontrolled mass rate of particulate emissions from this emissions unit is less than 10 pounds per hour as determined using the particulate emission factor of 0.37 lb/ton obtained from AP42, Volume I, 5th Edition, Chapter 11, Section 11.3, Table 11.3-1, dated August, 1997. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(a)(ii), Figure II of OAC rule 3745-17-11 does not apply. In addition, Table I of OAC rule 3745-17-11 does not apply pursuant to OAC rule 3745-17-11(A)(2)(b)(ii).
- 2.b This emissions unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(A), pursuant to OAC rule 3745-17-07(A)(3)(h), because the emissions unit is not subject to the requirements of OAC rule 3745-17-11.

II. Operational Restrictions

1. The permittee shall burn only natural gas in this emissions unit.
2. The amount of sulfur entering this emissions unit, as an hourly average for each day of operation, shall not exceed the sulfur feed rate documented during the latest SO2 emission test that demonstrated compliance with the allowable SO2 emission rate.

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.

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

2. The permittee shall maintain records of the following information for the purpose of determining the amount of sulfur fed to this emissions unit:
 - a. The permittee shall maintain daily records of the amount (in pounds) of the clay/shale raw materials processed by this emissions unit.
 - b. The permittee shall take a daily composite sample of the clay/shale raw materials and determine the sulfur content of the clay/shale raw materials entering the kiln each day. The composite sample shall be taken from the stock pile and/or the production mix, and shall consist of approximately 5 to 10 grab samples. The test method for the determination of the sulfur content in the raw materials shall be that method specified in the supplemental report submitted by Pullman-Swindell and the Belden Brick Company as prepared by John C. Jensen and dated January 30, 1981, pp. 6 and 7. Daily records shall be maintained of the sulfur content results.
 - c. The sulfur content shall be used to determine the amount of sulfur (in pounds) entering the kiln each day, based on the daily amount of clay/shale raw materials processed. Daily records shall be maintained of the amount of sulfur usage. The following formula shall be used for this determination:

pounds sulfur/day = (percent sulfur/100%) x pounds clay/shale raw materials/day
 - d. Daily records shall be maintained of the hours of operation of this emissions unit.
 - e. The permittee shall calculate and record each day the average hourly amount of sulfur fed to this emissions unit [i.e., 2.c/2.d], in pounds/hour (average).

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 each day during which the amount of sulfur entering this emissions unit, as an hourly average for each day of operation, exceeded the sulfur feed rate documented during the latest SO₂ emission test that demonstrated compliance with the allowable SO₂ emission rate, and the actual average hourly sulfur feed rate for each such day. All quarterly deviation reports shall be submitted in accordance with paragraph A.1.c of the General Terms and Conditions of this permit.

V. Testing Requirements

1. Compliance with the emission limitation in section A.I.1 of these terms and conditions shall be determined in accordance with the following method:
 - 1.a Emission Limitation:

91.9 lbs/hr of sulfur dioxide

Applicable Compliance Method:

Compliance shall be demonstrated based upon the emission testing requirements specified in OAC rule 3745-18-04 and the methods and procedures specified in 40 CFR Part 60, Appendix A, Methods 1 through 4 and Method 6 and the record keeping required pursuant to section A.III.2 of this permit.

V. Testing Requirements (continued)

2. Pursuant to R.C. 3704.03 and OAC rule 3745-15-04(A), the permittee shall conduct, or have conducted, emissions tests as described below.

The uncontrolled mass emission rate of particulates and sulfur dioxide from one stack at Plant 6 shall be determined during production using fire clay as raw material. Testing shall be completed as soon as possible, but no later than 180 days from January 17, 2001.

The emissions tests shall be conducted in accordance with the appropriate test methods and procedures set forth in Appendix A to 40 CFR, Part 60 as such Appendix existed on July 1, 1996. The emissions unit shall be tested under the maximum production rate.

Not later than 30 days prior to the proposed test dates, or such shorter time as the Ohio EPA Southeast District Office agrees, the permittee shall submit an "Intent to Test" notification to the Ohio EPA Southeast District Office. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the times and dates of the tests, and the persons who will be conducting the tests. Failure to submit such notification for review and approval prior to the tests may result in the Ohio EPA's refusal to accept the results of the emission tests.

Personnel from Ohio EPA shall be permitted to witness the tests, examine the testing equipment, and acquire data and information regarding the emissions unit operating parameters.

A comprehensive written report on the results of the emissions tests shall be submitted to the Ohio EPA Central Office and the Ohio EPA Southeast District Office within 30 days following completion of the tests. This written report shall be signed by the person or persons responsible for the tests

3. During the sulfur dioxide emission testing required in section A.V.2, the permittee shall also measure and record the sulfur feed rate, in pounds per hour, during each test run.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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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: Plt 6 Tunnel Kiln #2 (P602)

Activity Description: Plt 6 Tunnel Kiln # 2 to P6K2STK

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Plant 6, natural gas-fired tunnel kiln # 2	OAC rule 3745-17-11	See A.I.2.a below.
	OAC rule 3745-17-07(A)	See A.I.2.b below.
	OAC rule 3745-18-06(E)(2)	Emissions of sulfur dioxide shall not exceed 91.9 lbs/hr.

2. Additional Terms and Conditions

- 2.a The uncontrolled mass rate of particulate emissions from this emissions unit is less than 10 pounds per hour as determined using the particulate emission factor of 0.37 lb/ton obtained from AP42, Volume I, 5th Edition, Chapter 11, Section 11.3, Table 11.3-1, dated August, 1997. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(a)(ii), Figure II of OAC rule 3745-17-11 does not apply. In addition, Table I of OAC rule 3745-17-11 does not apply pursuant to OAC rule 3745-17-11(A)(2)(b)(ii).
- 2.b This emissions unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(A), pursuant to OAC rule 3745-17-07(A)(3)(h), because the emissions unit is not subject to the requirements of OAC rule 3745-17-11.

II. Operational Restrictions

1. The permittee shall burn only natural gas in this emissions unit.
2. The amount of sulfur entering this emissions unit, as an hourly average for each day of operation, shall not exceed the sulfur feed rate documented during the latest SO₂ emission test that demonstrated compliance with the allowable SO₂ emission rate.

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.

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

2. The permittee shall maintain records of the following information for the purpose of determining the amount of sulfur fed to this emissions unit:
 - a. The permittee shall maintain daily records of the amount (in pounds) of the clay/shale raw materials processed by this emissions unit.
 - b. The permittee shall take a daily composite sample of the clay/shale raw materials and determine the sulfur content of the clay/shale raw materials entering the kiln each day. The composite sample shall be taken from the stock pile and/or the production mix, and shall consist of approximately 5 to 10 grab samples. The test method for the determination of the sulfur content in the raw materials shall be that method specified in the supplemental report submitted by Pullman-Swindell and the Belden Brick Company as prepared by John C. Jensen and dated January 30, 1981, pp. 6 and 7. Daily records shall be maintained of the sulfur content results.
 - c. The sulfur content shall be used to determine the amount of sulfur (in pounds) entering the kiln each day, based on the daily amount of clay/shale raw materials processed. Daily records shall be maintained of the amount of sulfur usage. The following formula shall be used for this determination:

$$\text{pounds sulfur/day} = (\text{percent sulfur}/100\%) \times \text{pounds clay/shale raw materials/day}$$
 - d. Daily records shall be maintained of the hours of operation of this emissions unit.
 - e. The permittee shall calculate and record each day the average hourly amount of sulfur fed to this emissions unit [i.e., 2.c/2.d], in pounds/hour (average).

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 each day during which the amount of sulfur entering this emissions unit, as an hourly average for each day of operation, exceeded the sulfur feed rate documented during the latest SO₂ emission test that demonstrated compliance with the allowable SO₂ emission rate, and the actual average hourly sulfur feed rate for each such day. All quarterly deviation reports shall be submitted in accordance with paragraph A.1.c of the General Terms and Conditions of this permit.

V. Testing Requirements

1. Compliance with the emission limitation in section A.I.1 of these terms and conditions shall be determined in accordance with the following method:
 - 1.a Emission Limitation:

91.9 lbs/hr of sulfur dioxide

Applicable Compliance Method:

Compliance shall be demonstrated based upon the emission testing requirements specified in OAC rule 3745-18-04 and the methods and procedures specified in 40 CFR Part 60, Appendix A, Methods 1 through 4 and Method 6 and the record keeping required pursuant to section A.III.2 of this permit.

V. Testing Requirements (continued)

2. Pursuant to R.C. 3704.03 and OAC rule 3745-15-04(A), the permittee shall conduct, or have conducted, emissions tests as described below.

The uncontrolled mass emission rate of particulates and sulfur dioxide from one stack at Plant 6 shall be determined during production using fire clay as raw material. Testing shall be completed as soon as possible, but no later than 180 days from January 17, 2001.

The emissions tests shall be conducted in accordance with the appropriate test methods and procedures set forth in Appendix A to 40 CFR, Part 60 as such Appendix existed on July 1, 1996. The emissions unit shall be tested under the maximum production rate.

Not later than 30 days prior to the proposed test dates, or such shorter time as the Ohio EPA Southeast District Office agrees, the permittee shall submit an "Intent to Test" notification to the Ohio EPA Southeast District Office. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the times and dates of the tests, and the persons who will be conducting the tests. Failure to submit such notification for review and approval prior to the tests may result in the Ohio EPA's refusal to accept the results of the emission tests.

Personnel from Ohio EPA shall be permitted to witness the tests, examine the testing equipment, and acquire data and information regarding the emissions unit operating parameters.

A comprehensive written report on the results of the emissions tests shall be submitted to the Ohio EPA Central Office and the Ohio EPA Southeast District Office within 30 days following completion of the tests. This written report shall be signed by the person or persons responsible for the tests

3. During the sulfur dioxide emission testing required in section A.V.2, the permittee shall also measure and record the sulfur feed rate, in pounds per hour, during each test run.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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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: Plt 6 Tunnel Kiln #3 (P603)

Activity Description: Plt 6 Tunnel Kiln # 3 to P6K3STK

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Plant 6, natural gas-fired tunnel kiln # 3	OAC rule 3745-17-11	See A.I.2.a below.
	OAC rule 3745-17-07(A)	See A.I.2.b below.
	OAC rule 3745-18-06(E)(2)	Emissions of sulfur dioxide shall not exceed 91.9 lbs/hr.

2. Additional Terms and Conditions

- 2.a The uncontrolled mass rate of particulate emissions from this emissions unit is less than 10 pounds per hour as determined using the particulate emission factor of 0.37 lb/ton obtained from AP42, Volume I, 5th Edition, Chapter 11, Section 11.3, Table 11.3-1, dated August, 1997. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(a)(ii), Figure II of OAC rule 3745-17-11 does not apply. In addition, Table I of OAC rule 3745-17-11 does not apply pursuant to OAC rule 3745-17-11(A)(2)(b)(ii).
- 2.b This emissions unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(A), pursuant to OAC rule 3745-17-07(A)(3)(h), because the emissions unit is not subject to the requirements of OAC rule 3745-17-11.

II. Operational Restrictions

1. The permittee shall burn only natural gas in this emissions unit.
2. The amount of sulfur entering this emissions unit, as an hourly average for each day of operation, shall not exceed the sulfur feed rate documented during the latest SO₂ emission test that demonstrated compliance with the allowable SO₂ emission rate.

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.

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

2. The permittee shall maintain records of the following information for the purpose of determining the amount of sulfur fed to this emissions unit:
 - a. The permittee shall maintain daily records of the amount (in pounds) of the clay/shale raw materials processed by this emissions unit.
 - b. The permittee shall take a daily composite sample of the clay/shale raw materials and determine the sulfur content of the clay/shale raw materials entering the kiln each day. The composite sample shall be taken from the stock pile and/or the production mix, and shall consist of approximately 5 to 10 grab samples. The test method for the determination of the sulfur content in the raw materials shall be that method specified in the supplemental report submitted by Pullman-Swindell and the Belden Brick Company as prepared by John C. Jensen and dated January 30, 1981, pp. 6 and 7. Daily records shall be maintained of the sulfur content results.
 - c. The sulfur content shall be used to determine the amount of sulfur (in pounds) entering the kiln each day, based on the daily amount of clay/shale raw materials processed. Daily records shall be maintained of the amount of sulfur usage. The following formula shall be used for this determination:

pounds sulfur/day = (percent sulfur/100%) x pounds clay/shale raw materials/day
 - d. Daily records shall be maintained of the hours of operation of this emissions unit.
 - e. The permittee shall calculate and record each day the average hourly amount of sulfur fed to this emissions unit [i.e., 2.c/2.d], in pounds/hour (average).

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 each day during which the amount of sulfur entering this emissions unit, as an hourly average for each day of operation, exceeded the sulfur feed rate documented during the latest SO₂ emission test that demonstrated compliance with the allowable SO₂ emission rate, and the actual average hourly sulfur feed rate for each such day. All quarterly deviation reports shall be submitted in accordance with paragraph A.1.c of the General Terms and Conditions of this permit.

V. Testing Requirements

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

1.a Emission Limitation:

91.9 lbs/hr of sulfur dioxide

Applicable Compliance Method:

Compliance shall be demonstrated based upon the emission testing requirements specified in OAC rule 3745-18-04 and the methods and procedures specified in 40 CFR Part 60, Appendix A, Methods 1 through 4 and Method 6 and the record keeping required pursuant to section A.III.2 of this permit.

V. Testing Requirements (continued)

2. Pursuant to R.C. 3704.03 and OAC rule 3745-15-04(A), the permittee shall conduct, or have conducted, emissions tests as described below.

The uncontrolled mass emission rate of particulates and sulfur dioxide from one stack at Plant 6 shall be determined during production using fire clay as raw material. Testing shall be completed as soon as possible, but no later than 180 days from January 17, 2001.

The emissions tests shall be conducted in accordance with the appropriate test methods and procedures set forth in Appendix A to 40 CFR, Part 60 as such Appendix existed on July 1, 1996. The emissions unit shall be tested under the maximum production rate.

Not later than 30 days prior to the proposed test dates, or such shorter time as the Ohio EPA Southeast District Office agrees, the permittee shall submit an "Intent to Test" notification to the Ohio EPA Southeast District Office. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the times and dates of the tests, and the persons who will be conducting the tests. Failure to submit such notification for review and approval prior to the tests may result in the Ohio EPA's refusal to accept the results of the emission tests.

Personnel from Ohio EPA shall be permitted to witness the tests, examine the testing equipment, and acquire data and information regarding the emissions unit operating parameters.

A comprehensive written report on the results of the emissions tests shall be submitted to the Ohio EPA Central Office and the Ohio EPA Southeast District Office within 30 days following completion of the tests. This written report shall be signed by the person or persons responsible for the tests

3. During the sulfur dioxide emission testing required in section A.V.2, the permittee shall also measure and record the sulfur feed rate, in pounds per hour, during each test run.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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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: Plt 8 Tunnel Kiln #1 (P801)

Activity Description: Plt 8 Tunnel Kiln # 1 to P8K1STK & Ware Cool bypass P8WC!STK

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Plant 8, natural gas-fired tunnel kiln # 1 controlled with a dry scrubber and a baghouse	OAC rule 3745-17-11	See A.I.2.a below.
	OAC rule 3745-17-07(A)	See A.I.2.b below.
	OAC rule 3745-18-06(E)(2)	Emissions of sulfur dioxide shall not exceed 118.5 lbs/hr.

2. Additional Terms and Conditions

- 2.a The uncontrolled mass rate of particulate emissions from this emissions unit is less than 10 pounds per hour as determined using the particulate emission factor of 0.37 lb/ton obtained from AP42, Volume I, 5th Edition, Chapter 11, Section 11.3, Table 11.3-1, dated August, 1997. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(a)(ii), Figure II of OAC rule 3745-17-11 does not apply. In addition, Table I of OAC rule 3745-17-11 does not apply pursuant to OAC rule 3745-17-11(A)(2)(b)(ii).
- 2.b This emissions unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(A), pursuant to OAC rule 3745-17-07(A)(3)(h), because the emissions unit is not subject to the requirements of OAC rule 3745-17-11.

II. Operational Restrictions

1. The permittee shall burn only natural gas in this emissions unit.
2. The amount of sulfur entering this emissions unit, as an hourly average for each day of operation, shall not exceed the sulfur feed rate documented during the latest SO₂ emission test that demonstrated compliance with the allowable SO₂ emission rate.

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.

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

2. The permittee shall maintain records of the following information for the purpose of determining the amount of sulfur fed to this emissions unit:
 - a. The permittee shall maintain daily records of the amount (in pounds) of the clay/shale raw materials processed by this emissions unit.
 - b. The permittee shall take a daily composite sample of the clay/shale raw materials and determine the sulfur content of the clay/shale raw materials entering the kiln each day. The composite sample shall be taken from the stock pile and/or the production mix, and shall consist of approximately 5 to 10 grab samples. The test method for the determination of the sulfur content in the raw materials shall be that method specified in the supplemental report submitted by Pullman-Swindell and the Belden Brick Company as prepared by John C. Jensen and dated January 30, 1981, pp. 6 and 7. Daily records shall be maintained of the sulfur content results.
 - c. The sulfur content shall be used to determine the amount of sulfur (in pounds) entering the kiln each day, based on the daily amount of clay/shale raw materials processed. Daily records shall be maintained of the amount of sulfur usage. The following formula shall be used for this determination:

pounds sulfur/day = (percent sulfur/100%) x pounds clay/shale raw materials/day
 - d. Daily records shall be maintained of the hours of operation of this emissions unit.
 - e. The permittee shall calculate and record each day the average hourly amount of sulfur fed to this emissions unit [i.e., 2.c/2.d], in pounds/hour (average).

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 each day during which the amount of sulfur entering this emissions unit, as an hourly average for each day of operation, exceeded the sulfur feed rate documented during the latest SO₂ emission test that demonstrated compliance with the allowable SO₂ emission rate, and the actual average hourly sulfur feed rate for each such day. All quarterly deviation reports shall be submitted in accordance with paragraph A.1.c of the General Terms and Conditions of this permit.

V. Testing Requirements

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

1.a Emission Limitation:

118.5 lbs/hr of sulfur dioxide

Applicable Compliance Method:

Compliance shall be demonstrated based upon the emission testing requirements specified in OAC rule 3745-18-04 and the methods and procedures specified in 40 CFR Part 60, Appendix A, Methods 1 through 4 and Method 6 and the record keeping required pursuant to section A.III.2 of this permit.

V. Testing Requirements (continued)

2. Pursuant to R.C. 3704.03 and OAC rule 3745-15-04(A), the permittee shall conduct, or have conducted, emissions tests as described below.

The controlled mass emission rate of particulates and sulfur dioxide from one stack at Plant 8 shall be determined during worst case and, if possible, during production when "flashing" is used. Testing shall be completed as soon as possible, but no later than 120 days from the start up of the emissions control equipment.

The emissions tests shall be conducted in accordance with the appropriate test methods and procedures set forth in Appendix A to 40 CFR, Part 60 as such Appendix existed on July 1, 1996. The emissions unit shall be tested under the maximum production rate.

Not later than 14 days prior to the proposed test dates, or such shorter time as the Ohio EPA Southeast District Office agrees, the permittee shall submit an "Intent to Test" notification to the Ohio EPA Southeast District Office. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the times and dates of the tests, and the persons who will be conducting the tests. Failure to submit such notification for review and approval prior to the tests may result in the Ohio EPA's refusal to accept the results of the emission tests.

Personnel from Ohio EPA shall be permitted to witness the tests, examine the testing equipment, and acquire data and information regarding the emissions unit operating parameters.

A comprehensive written report on the results of the emissions tests shall be submitted to the Ohio EPA Central Office and the Ohio EPA Southeast District Office within 30 days following completion of the tests. This written report shall be signed by the person or persons responsible for the tests

3. During the sulfur dioxide emission testing required in section A.V.2, the permittee shall also measure and record the sulfur feed rate, in pounds per hour, during each test run.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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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: Plt 8 Tunnel Kiln #2 (P802)

Activity Description: Plt 8 Tunnel Kiln # 2 to P8K23STK & Ware Cool bypass P8WC2STK

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Plant 8, natural gas-fired tunnel kiln # 2 controlled with a dry scrubber and a baghouse	OAC rule 3745-17-11	See A.I.2.a below.
	OAC rule 3745-17-07(A)	See A.I.2.b below.
	OAC rule 3745-18-06(E)(2)	Emissions of sulfur dioxide shall not exceed 118.5 lbs/hr.

2. Additional Terms and Conditions

- 2.a The uncontrolled mass rate of particulate emissions from this emissions unit is less than 10 pounds per hour as determined using the particulate emission factor of 0.37 lb/ton obtained from AP42, Volume I, 5th Edition, Chapter 11, Section 11.3, Table 11.3-1, dated August, 1997. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(a)(ii), Figure II of OAC rule 3745-17-11 does not apply. In addition, Table I of OAC rule 3745-17-11 does not apply pursuant to OAC rule 3745-17-11(A)(2)(b)(ii).
- 2.b This emissions unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(A), pursuant to OAC rule 3745-17-07(A)(3)(h), because the emissions unit is not subject to the requirements of OAC rule 3745-17-11.

II. Operational Restrictions

1. The permittee shall burn only natural gas in this emissions unit.
2. The amount of sulfur entering this emissions unit, as an hourly average for each day of operation, shall not exceed the sulfur feed rate documented during the latest SO₂ emission test that demonstrated compliance with the allowable SO₂ emission rate.

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.

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

2. The permittee shall maintain records of the following information for the purpose of determining the amount of sulfur fed to this emissions unit:
 - a. The permittee shall maintain daily records of the amount (in pounds) of the clay/shale raw materials processed by this emissions unit.
 - b. The permittee shall take a daily composite sample of the clay/shale raw materials and determine the sulfur content of the clay/shale raw materials entering the kiln each day. The composite sample shall be taken from the stock pile and/or the production mix, and shall consist of approximately 5 to 10 grab samples. The test method for the determination of the sulfur content in the raw materials shall be that method specified in the supplemental report submitted by Pullman-Swindell and the Belden Brick Company as prepared by John C. Jensen and dated January 30, 1981, pp. 6 and 7. Daily records shall be maintained of the sulfur content results.
 - c. The sulfur content shall be used to determine the amount of sulfur (in pounds) entering the kiln each day, based on the daily amount of clay/shale raw materials processed. Daily records shall be maintained of the amount of sulfur usage. The following formula shall be used for this determination:

pounds sulfur/day = (percent sulfur/100%) x pounds clay/shale raw materials/day
 - d. Daily records shall be maintained of the hours of operation of this emissions unit.
 - e. The permittee shall calculate and record each day the average hourly amount of sulfur fed to this emissions unit [i.e., 2.c/2.d], in pounds/hour (average).

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 each day during which the amount of sulfur entering this emissions unit, as an hourly average for each day of operation, exceeded the sulfur feed rate documented during the latest SO₂ emission test that demonstrated compliance with the allowable SO₂ emission rate, and the actual average hourly sulfur feed rate for each such day. All quarterly deviation reports shall be submitted in accordance with paragraph A.1.c of the General Terms and Conditions of this permit.

V. Testing Requirements

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

1.a Emission Limitation:

118.5 lbs/hr of sulfur dioxide

Applicable Compliance Method:

Compliance shall be demonstrated based upon the emission testing requirements specified in OAC rule 3745-18-04 and the methods and procedures specified in 40 CFR Part 60, Appendix A, Methods 1 through 4 and Method 6 and the record keeping required pursuant to section A.III.2 of this permit.

V. Testing Requirements (continued)

2. Pursuant to R.C. 3704.03 and OAC rule 3745-15-04(A), the permittee shall conduct, or have conducted, emissions tests as described below.

The controlled mass emission rate of particulates and sulfur dioxide from one stack at Plant 8 shall be determined during worst case and, if possible, during production when "flashing" is used. Testing shall be completed as soon as possible, but no later than 120 days from the start up of the emissions control equipment.

The uncontrolled mass emission rate of particulates and sulfur dioxide from the stack for kiln #2 at Plant 8 shall be determined during worst case production and, if possible, during production when "flashing" is used. Testing shall be completed as soon as possible, but no later than 180 days from January 17, 2001.

The emissions tests shall be conducted in accordance with the appropriate test methods and procedures set forth in Appendix A to 40 CFR, Part 60 as such Appendix existed on July 1, 1996. The emissions unit shall be tested under the maximum production rate.

Not later than 14 days prior to the proposed test dates, or such shorter time as the Ohio EPA Southeast District Office agrees, the permittee shall submit an "Intent to Test" notification to the Ohio EPA Southeast District Office. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the times and dates of the tests, and the persons who will be conducting the tests. Failure to submit such notification for review and approval prior to the tests may result in the Ohio EPA's refusal to accept the results of the emission tests.

Personnel from Ohio EPA shall be permitted to witness the tests, examine the testing equipment, and acquire data and information regarding the emissions unit operating parameters.

A comprehensive written report on the results of the emissions tests shall be submitted to the Ohio EPA Central Office and the Ohio EPA Southeast District Office within 30 days following completion of the tests. This written report shall be signed by the person or persons responsible for the tests.

3. During the sulfur dioxide emission testing required in section A.V.2, the permittee shall also measure and record the sulfur feed rate, in pounds per hour, during each test run.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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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: Plt 8 Tunnel Kiln #3 (P803)

Activity Description: Plt 8 Tunnel Kiln # 3 to P8K23STK & Ware Cool bypass P8WC3STK

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Plant 8, natural gas-fired tunnel kiln # 3 controlled with a dry scrubber and a baghouse	OAC rule 3745-17-11	See A.I.2.a below.
	OAC rule 3745-17-07(A)	See A.I.2.b below.
	OAC rule 3745-18-06(E)(2)	Emissions of sulfur dioxide shall not exceed 118.5 lbs/hr.

2. Additional Terms and Conditions

- 2.a The uncontrolled mass rate of particulate emissions from this emissions unit is less than 10 pounds per hour as determined using the particulate emission factor of 0.37 lb/ton obtained from AP42, Volume I, 5th Edition, Chapter 11, Section 11.3, Table 11.3-1, dated August, 1997. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(a)(ii), Figure II of OAC rule 3745-17-11 does not apply. In addition, Table I of OAC rule 3745-17-11 does not apply pursuant to OAC rule 3745-17-11(A)(2)(b)(ii).
- 2.b This emissions unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(A), pursuant to OAC rule 3745-17-07(A)(3)(h), because the emissions unit is not subject to the requirements of OAC rule 3745-17-11.

II. Operational Restrictions

1. The permittee shall burn only natural gas in this emissions unit.
2. The amount of sulfur entering this emissions unit, as an hourly average for each day of operation, shall not exceed the sulfur feed rate documented during the latest SO₂ emission test that demonstrated compliance with the allowable SO₂ emission rate.

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.

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

2. The permittee shall maintain records of the following information for the purpose of determining the amount of sulfur fed to this emissions unit:
 - a. The permittee shall maintain daily records of the amount (in pounds) of the clay/shale raw materials processed by this emissions unit.
 - b. The permittee shall take a daily composite sample of the clay/shale raw materials and determine the sulfur content of the clay/shale raw materials entering the kiln each day. The composite sample shall be taken from the stock pile and/or the production mix, and shall consist of approximately 5 to 10 grab samples. The test method for the determination of the sulfur content in the raw materials shall be that method specified in the supplemental report submitted by Pullman-Swindell and the Belden Brick Company as prepared by John C. Jensen and dated January 30, 1981, pp. 6 and 7. Daily records shall be maintained of the sulfur content results.
 - c. The sulfur content shall be used to determine the amount of sulfur (in pounds) entering the kiln each day, based on the daily amount of clay/shale raw materials processed. Daily records shall be maintained of the amount of sulfur usage. The following formula shall be used for this determination:

pounds sulfur/day = (percent sulfur/100%) x pounds clay/shale raw materials/day
 - d. Daily records shall be maintained of the hours of operation of this emissions unit.
 - e. The permittee shall calculate and record each day the average hourly amount of sulfur fed to this emissions unit [i.e., 2.c/2.d], in pounds/hour (average).

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 each day during which the amount of sulfur entering this emissions unit, as an hourly average for each day of operation, exceeded the sulfur feed rate documented during the latest SO₂ emission test that demonstrated compliance with the allowable SO₂ emission rate, and the actual average hourly sulfur feed rate for each such day. All quarterly deviation reports shall be submitted in accordance with paragraph A.1.c of the General Terms and Conditions of this permit.

V. Testing Requirements

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

1.a Emission Limitation:

118.5 lbs/hr of sulfur dioxide

Applicable Compliance Method:

Compliance shall be demonstrated based upon the emission testing requirements specified in OAC rule 3745-18-04 and the methods and procedures specified in 40 CFR Part 60, Appendix A, Methods 1 through 4 and Method 6 and the record keeping required pursuant to section A.III.2 of this permit.

V. Testing Requirements (continued)

2. Pursuant to R.C. 3704.03 and OAC rule 3745-15-04(A), the permittee shall conduct, or have conducted, emissions tests as described below.

The controlled mass emission rate of particulates and sulfur dioxide from one stack at Plant 8 shall be determined during worst case and, if possible, during production when "flashing" is used. Testing shall be completed as soon as possible, but no later than 120 days from the start up of the emissions control equipment.

The uncontrolled mass emission rate of particulates and sulfur dioxide from the stack for kiln #3 at Plant 8 shall be determined during worst case production and, if possible, during production when "flashing" is used. Testing shall be completed as soon as possible, but no later than 180 days from January 17, 2001.

The emissions tests shall be conducted in accordance with the appropriate test methods and procedures set forth in Appendix A to 40 CFR, Part 60 as such Appendix existed on July 1, 1996. The emissions unit shall be tested under the maximum production rate.

Not later than 14 days prior to the proposed test dates, or such shorter time as the Ohio EPA Southeast District Office agrees, the permittee shall submit an "Intent to Test" notification to the Ohio EPA Southeast District Office. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the times and dates of the tests, and the persons who will be conducting the tests. Failure to submit such notification for review and approval prior to the tests may result in the Ohio EPA's refusal to accept the results of the emission tests.

Personnel from Ohio EPA shall be permitted to witness the tests, examine the testing equipment, and acquire data and information regarding the emissions unit operating parameters.

A comprehensive written report on the results of the emissions tests shall be submitted to the Ohio EPA Central Office and the Ohio EPA Southeast District Office within 30 days following completion of the tests. This written report shall be signed by the person or persons responsible for the tests.

3. During the sulfur dioxide emission testing required in section A.V.2, the permittee shall also measure and record the sulfur feed rate, in pounds per hour, during each test run.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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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: Plt 8 Sand Dryer (P870)
Activity Description: Plt 8 Sand Dryer to P8SANDSTK

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
2 tons per hour sand dryer with baghouse	OAC rule 3745-17-11	Particulate emissions shall not exceed 6.65 lbs/hr.
	OAC rule 3745-17-07(A)	Visible particulate emissions from any stack shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the baghouse exhaust. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any visible emission incident; and
 - e. any corrective actions taken to eliminate the visible emissions.

IV. Reporting Requirements

1. The permittee shall submit quarterly written reports which (a) identify all days during which any visible particulate emissions were observed from the baghouse exhaust and (b) describe the corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) quarterly, i.e., by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarter.

V. Testing Requirements

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

1.a Emission Limitation:

6.65 lbs/hr of particulate emissions

Applicable Compliance Method:

Compliance shall be demonstrated in accordance with the methods and procedures in 40 CFR Part 60, Appendix A, Methods 1 through 5 and OAC rule 3745-17-03(B)(10). No testing is specifically required to demonstrate compliance with this emission limit, but, if appropriate, may be requested pursuant to OAC rule 3745-15-04(A).

1.b Emission Limitation:

20% opacity as a 6-minute average

Applicable Compliance Method:

Compliance shall be demonstrated based upon visible particulate emission observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1). No visible particulate emission testing is specifically required to demonstrate compliance with this limit, but, if appropriate, may be requested pursuant to OAC rule 3745-15-04(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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

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