



2/12/2015

Certified Mail

Tim Weible
Lafarge North America - Paulding Plant
11435 County Road 176
Paulding, OH 45879-0226

Facility ID: 0363000002
Permit Number: P0116498
County: Paulding

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

Dear Permit Holder:

Enclosed is a final Ohio Environmental Protection Agency (EPA) Air Pollution Title V permit that allows you to operate the facility in the manner indicated in the permit. Because this permit may contain several conditions and restrictions, we urge you to read it carefully. In this letter you will find the information on the following topics:

- **How to appeal this permit**
- **How to save money, reduce pollution and reduce energy consumption**
- **How to give us feedback on your permitting experience**
- **How to get an electronic copy of your permit**

How to appeal this permit

The issuance of this Title V permit is a final action of the Director and may be appealed to the Environmental Review Appeals Commission pursuant to Section 3745.04 of the Ohio Revised Code. The appeal must be in writing and set forth the action complained of and the grounds upon which the appeal is based. The appeal must be filed with the Commission within thirty (30) days after notice of the Director's action. The appeal must be accompanied by a filing fee of \$70.00, made payable to "Ohio Treasurer Josh Mandel," which the Commission, in its discretion, may reduce if by affidavit you demonstrate that payment of the full amount of the fee would cause extreme hardship. Notice of the filing of the appeal shall be filed with the Director within three (3) days of filing with the Commission. Ohio EPA requests that a copy of the appeal be served upon the Ohio Attorney General's Office, Environmental Enforcement Section. An appeal may be filed with the Environmental Review Appeals Commission at the following address:

Environmental Review Appeals Commission
77 South High Street, 17th Floor
Columbus, OH 43215

How to save money, reduce pollution and reduce energy consumption

The Ohio EPA is encouraging companies to investigate pollution prevention and energy conservation. Not only will this reduce pollution and energy consumption, but it can also save you money. If you would like to learn ways you can save money while protecting the environment, please contact our Office of Compliance Assistance and Pollution Prevention at (614) 644-3469. Additionally, all or a portion of the capital expenditures related to installing air pollution control equipment under this permit may be eligible for financing and State tax exemptions through the Ohio Air Quality Development Authority (OAQDA) under Ohio Revised Code Section 3706. For more information, see the OAQDA website: www.ohioairquality.org/clean_air

How to give us feedback on your permitting experience

Please complete a survey at www.epa.ohio.gov/survey.aspx and give us feedback on your permitting experience. We value your opinion.

How to get an electronic copy of your permit

This permit can be accessed electronically via the eBusiness Center: Air Services in Microsoft Word format or in Adobe PDF on the Division of Air Pollution Control (DAPC) Web page, www.epa.ohio.gov/dapc by clicking the "Search for Permits" link under the Permitting topic on the Programs tab.

If you have any questions regarding this permit, please contact the Ohio EPA DAPC, Northwest District Office as indicated on page one of your permit.

Sincerely,



Erica R. Engel-Ishida, Manager
Permit Issuance and Data Management Section, DAPC

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



FINAL

**Division of Air Pollution Control
Title V Permit
for
Lafarge North America - Paulding Plant**

Facility ID:	0363000002
Permit Number:	P0116498
Permit Type:	Renewal
Issued:	2/12/2015
Effective:	3/5/2015
Expiration:	3/5/2020



Division of Air Pollution Control
Title V Permit
for
Lafarge North America - Paulding Plant

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Authorization

Facility ID: 0363000002
Facility Description: Cement, Hydraulic
Application Number(s): A0049673
Permit Number: P0116498
Permit Description: Renewal Title V operating permit for a Portland Cement Plant - with two rotary cement kilns combusting mostly liquid waste-derived fuels
Permit Type: Renewal
Issue Date: 2/12/2015
Effective Date: 3/5/2015
Expiration Date: 3/5/2020
Superseded Permit Number: P0107002

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

Lafarge North America - Paulding Plant
11435 County Road 176
P.O. Box 160
Paulding, OH 45879-0226

Ohio Environmental Protection Agency (EPA) District Office or local air agency responsible for processing and administering your permit:

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

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

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency


Craig W. Butler
Director



Final Title V Permit
Lafarge North America - Paulding Plant
Permit Number: P0116498
Facility ID: 0363000002
Effective Date: 3/5/2015

A. Standard Terms and Conditions



1. Federally Enforceable Standard Terms and Conditions

- a) All Standard Terms and Conditions are federally enforceable, with the exception of those listed below which are enforceable under State law only:
- (1) Standard Term and Condition A. 24., Reporting Requirements Related to Monitoring and Record Keeping Requirements of State-Only Enforceable Permit Terms and Conditions
 - (2) Standard Term and Condition A. 25., Records Retention Requirements for State-Only Enforceable Permit Terms and Conditions
 - (3) Standard Term and Condition A. 27., Scheduled Maintenance/Malfunction Reporting For State-Only Requirements
 - (4) Standard Term and Condition A. 29., Additional Reporting Requirements When There Are No Deviations of Federally Enforceable Emission Limitations, Operational Restrictions, or Control Device Operating Parameter Limitations
 - (5) Standard Term and Condition A. 30.

(Authority for term: ORC 3704.036(A))

2. Monitoring and Related Record Keeping and Reporting Requirements

- a) Except as may otherwise be provided in the terms and conditions for a specific emissions unit (i.e., in section C. Emissions Unit Terms and Conditions of this Title V permit), the permittee shall maintain records that include the following, where applicable, for any required monitoring under this permit:
- (1) The date, place (as defined in the permit), and time of sampling or measurements.
 - (2) The date(s) analyses were performed.
 - (3) The company or entity that performed the analyses.
 - (4) The analytical techniques or methods used.
 - (5) The results of such analyses.
 - (6) The operating conditions existing at the time of sampling or measurement.

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

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

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



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

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

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

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

In identifying each deviation caused by a malfunction, the permittee shall specify the emission limitation(s) (or control requirement(s)) for which the deviation occurred, describe each deviation, and provide the magnitude and duration of each deviation. For a specific malfunction, if this information has been provided in a written report that was submitted in accordance with OAC rule 3745-15-06, the permittee may simply reference that written report to identify the deviation. Nevertheless, all malfunctions, including those reported only verbally in accordance with OAC rule 3745-15-06, must be reported in writing on a quarterly basis.

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

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

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



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

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

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

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

See A.29 below if no deviations occurred during the quarter.

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

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

Unless otherwise specified by rule, written reports that identify deviations of the following federally enforceable requirements contained in this permit; Standard Terms and Conditions: A.3, A.4, A.5, A.7.e), A.8, A.13, A.15, A.19, A.20, A.21, and A.23 of this Title V permit, as well as any deviations from the requirements in section C. Emissions Unit Terms and Conditions of this Title V permit, and any monitoring, record keeping, and reporting requirements, which are not reported in accordance with Standard Term and Condition A.2.c)(2) above shall be submitted to the Ohio EPA DAPC, Northwest District Office by January 31 and July 31 of each year; and each report shall cover the previous six calendar months. Unless otherwise specified by rule, all other deviations from



federally enforceable requirements identified in this permit shall be submitted annually as part of the annual compliance certification, including deviations of federally enforceable requirements not specifically addressed by permit or rule for the insignificant activities or emissions levels (IEU) identified in section B. Facility-Wide Terms and Conditions of this Title V permit. Annual reporting of deviations is deemed adequate to meet the deviation reporting requirements for IEUs unless otherwise specified by permit or rule.

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

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

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

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

- (4) Each written report shall be signed by a Responsible Official certifying that, "based on information and belief formed after reasonable inquiry, the statements and information in the report (including any written malfunction reports required by OAC rule 3745-15-06 that are referenced in the deviation reports) are true, accurate, and complete." Signature by the Responsible Official may be represented by entry of the personal identification number (PIN) by the Responsible Official as part of the electronic submission process or by the scanned attestation document signed by the Responsible Official that is attached to the electronically submitted written report.

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

- (5) Consistent with A.2.c.1. above, reports of any required monitoring and/or record keeping information required to be submitted to Ohio EPA shall be submitted to Ohio EPA DAPC, Northwest District Office unless otherwise specified.

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

3. Reporting of Any Exceedence of a Federally Enforceable Emission Limitation or Control Requirement Resulting From Scheduled Maintenance

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



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

4. Risk Management Plans

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

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

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

5. Title IV Provisions

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

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

6. Severability Clause

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

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

7. General Requirements

- a) 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 except as provided pursuant to A.16 below.
- c) This permit may be modified, reopened, revoked, or revoked and reissued, for cause, in accordance with A.11 below. The filing of a request by the permittee for a permit modification, revocation and reissuance, or revocation, or of a notification of planned changes or anticipated noncompliance does not stay any term and condition of this permit.



- d) This permit does not convey any property rights of any sort, or any exclusive privilege.
- e) The permittee shall furnish to the Director of the Ohio EPA, or an authorized representative of the Director, upon receipt of a written request and within a reasonable time, any information that may be requested to determine whether cause exists for modifying, reopening or revoking this permit or to determine compliance with this permit. Upon request, the permittee shall also furnish to the Director or an authorized representative of the Director, copies of records required to be kept by this permit. For information claimed to be confidential in the submittal to the Director, if the Administrator of the U.S. EPA requests such information, the permittee may furnish such records directly to the Administrator along with a claim of confidentiality.
- f) Except as otherwise indicated below, this Title V permit, or permit modification, is effective for five years from the original effective date specified in the permit. In the event that this facility becomes eligible for non-title V permits, this permit shall cease to be enforceable when:
 - (1) the permittee submits an approved facility-wide potential to emit analysis supporting a claim that the facility no longer meets the definition of a "major source" as defined in OAC rule 3745-77-01(W) based on the permanent shutdown and removal of one or more emissions units identified in this permit; or
 - (2) the permittee no longer meets the definition of a "major source" as defined in OAC rule 3745-77-01(W) based on obtaining restrictions on the facility-wide potential(s) to emit that are federally enforceable or legally and practically enforceable ; or
 - (3) a combination of (1) and (2) above.

The permittee shall continue to comply with all applicable OAC Chapter 3745-31 requirements for all regulated air contaminant sources once this permit ceases to be enforceable. The permittee shall comply with any residual requirements, such as quarterly deviation reports, semi-annual deviation reports, and annual compliance certifications covering the period during which this Title V permit was enforceable. All records relating to this permit must be maintained in accordance with law.

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

8. Fees

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

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

9. Marketable Permit Programs

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

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



10. Reasonably Anticipated Operating Scenarios

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

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

11. Reopening for Cause

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

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

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

12. Federal and State Enforceability

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

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

13. Compliance Requirements

- a) Any document (including reports) required to be submitted and required by a federally applicable requirement in this Title V permit shall include a certification by a Responsible



Official that, based on information and belief formed after reasonable inquiry, the statements in the document are true, accurate, and complete.

- b) Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the Director of the Ohio EPA or an authorized representative of the Director to:
 - (1) At reasonable times, enter upon the permittee's premises where a source is located or the emissions-related activity is conducted, or where records must be kept under the conditions of this permit.
 - (2) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit, subject to the protection from disclosure to the public of confidential information consistent with paragraph (E) of OAC rule 3745-77-03.
 - (3) Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit.
 - (4) As authorized by the Act, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit and applicable requirements.

- c) The permittee shall submit progress reports to the Ohio EPA DAPC, Northwest District Office concerning any schedule of compliance for meeting an applicable requirement. Progress reports shall be submitted semiannually or more frequently if specified in the applicable requirement or by the Director of the Ohio EPA. Progress reports shall contain the following:
 - (1) Dates for achieving the activities, milestones, or compliance required in any schedule of compliance, and dates when such activities, milestones, or compliance were achieved.
 - (2) An explanation of why any dates in any schedule of compliance were not or will not be met, and any preventive or corrective measures adopted.

- d) Compliance certifications concerning the terms and conditions contained in this permit that are federally enforceable emission limitations, standards, or work practices, shall be submitted to the Director (the Ohio EPA DAPC, Northwest District Office) and the Administrator of the U.S. EPA in the following manner and with the following content:
 - (1) Compliance certifications shall be submitted annually on a calendar year basis. The annual certification shall be submitted on or before April 30th of each year during the permit term.
 - (2) Compliance certifications shall include the following:
 - a. Identification of each term or condition that is the basis of the certification. The identification may include a statement by the Responsible Official that every term and condition that is federally enforceable has been reviewed, and such terms and conditions with which there has been continuous compliance throughout the year are not separately identified.



- b. The permittee's current compliance status.
 - c. Whether compliance was continuous or intermittent consistent with A.13.d.2.a above.
 - d. The method(s) used for determining the compliance status of the source currently and over the required reporting period consistent with A.13.d.2.a above.
 - e. Such other facts as the Director of the Ohio EPA may require in the permit to determine the compliance status of the source.
- (3) Compliance certifications shall contain such additional requirements as may be specified pursuant to sections 114(a)(3) and 504(b) of the Act.

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

14. Permit Shield

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

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

15. Operational Flexibility

The permittee is authorized to make the changes identified in OAC rule 3745-77-07(H)(1)(a) to (H)(1)(c) within the permitted stationary source without obtaining a permit revision, if such change is not a modification under any provision of Title I of the Act [as defined in OAC rule 3745-77-01(JJ)], and does not result in an exceedance of the emissions allowed under this permit (whether expressed therein as a rate of emissions or in terms of total emissions), and the permittee provides the Administrator of the U.S. EPA and the Ohio EPA DAPC, Northwest District Office 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 Ohio EPA DAPC, Northwest District Office as soon as possible after learning of the need to make the change. The notification shall contain the items required under OAC rule 3745-77-07(H)(2)(d).

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

16. Emergencies

The permittee shall have an affirmative defense of emergency to an action brought for noncompliance with technology-based emission limitations if the conditions of OAC rule 3745-77-07(G)(3) are met.



This emergency defense provision is in addition to any emergency or upset provision contained in any applicable requirement.

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

17. Off-Permit Changes

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

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

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

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

18. Compliance Method Requirements

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

(This term is provided for informational purposes only.)



19. Insignificant Activities or Emissions Levels

Each IEU that is subject to one or more applicable requirements shall comply with those applicable requirements.

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

20. Permit to Install Requirement

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

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

21. Air Pollution Nuisance

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

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

22. Permanent Shutdown of an Emissions Unit

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

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

Unless otherwise exempted, no emissions unit identified in this permit that has been certified by the Responsible Official as being permanently shut down may resume operation without first applying for and obtaining a permit to install pursuant to OAC Chapter 3745-31.

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

23. Title VI Provisions

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



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

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

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

The permittee shall submit required reports in the following manner:

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

25. Records Retention Requirements Under State Law Only

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

26. Inspections and Information Requests

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



whether cause exists for modifying, reopening or revoking this permit or to determine compliance with this permit. Upon verbal or written request, the permittee shall also furnish to the Director of the Ohio EPA, or an authorized representative of the Director, copies of records required to be kept by this permit.

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

27. Scheduled Maintenance/Malfunction Reporting For State-Only Requirements

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

28. Permit Transfers

Any transferee of this permit shall assume the responsibilities of the prior permit holder. The Ohio EPA DAPC, Northwest District Office must be notified in writing of any transfer of this permit.

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

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

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

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

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



30. Submitting Documents Required by this Permit

All applications, notifications or reports required by terms and conditions in this permit to be submitted or "reported in writing" are to be submitted to Ohio EPA through the Ohio EPA's eBusiness Center: Air Services web service ("Air Services"). Ohio EPA will accept hard copy submittals on an as-needed basis if the permittee cannot submit the required documents through the Ohio EPA eBusiness Center. In the event of an alternative hard copy submission in lieu of the eBusiness Center, the post-marked date or the date the document is delivered in person will be recognized as the date submitted. Electronic submission of applications, notifications, or reports required to be submitted to Ohio EPA fulfills the requirement to submit the required information to the Director, the Ohio EPA DAPC, Northwest District Office, and/or any other individual or organization specifically identified as an additional recipient identified in this permit unless otherwise specified. Consistent with OAC rule 3745-15-03, the required application, notification or report is considered to be "submitted" on the date the submission is successful using a valid electronic signature. Signature by the Responsible Official may be represented as provided through procedures established in Air Services.



Final Title V Permit
Lafarge North America - Paulding Plant
Permit Number: P0116498
Facility ID: 0363000002
Effective Date: 3/5/2015

B. Facility-Wide Terms and Conditions



1. All the following facility-wide terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only:
 - a) None.
2. The following rule is applicable to this facility: 40 CFR 63.1340 et seq. (MACT Subpart LLL)

The permittee shall comply with the applicable emission limitation in 40 CFR 63.1345 (10 percent opacity, as a 6-minute average)

The following is the list of the emissions units at this facility that are subject to Subpart LLL:

- a) each raw mill;
- b) each finish mill (including emissions units P007, P008, and P009);
- c) each raw material, clinker, or finished product storage bin (including emissions unit P901, P903, and P905);
- d) each conveying system transfer point including those associated with coal preparation used to convey coal from the mill to the kiln (including emissions units P025, P026, and P905, and F004 prior to the pug mill);
- e) each bagging and bulk loading and unloading system (including emissions units P001, P002, P003, P004, P005, P006, and P905);
- f) each open clinker storage pile; and
- g) the following specific emissions points or locations, as specified in the permittee's O & M plan:

Process 9: Auxiliary System - Clinker Transfer
EP 2-6: Clinker truck loadout chute
EP 2-7: Clinker reclaim chute, clinker storage fugitives misc.

Process 9: Auxiliary - CKD Transfer
EP 7-1: CKD Tank #1 Baghouse Outlet
EP 7-2: CKD Tank #2, and Truck Loading, Baghouse Outlet (F004)
EP 4-5: East Dust Scoop Conveyance System Baghouse Outlet (P025)
EP 4-6: West Dust Scoop Conveyance System Baghouse Outlet (P026)
EP 4-7: CKD Bin

Process 3: Burning - Clinker Cooler
EP 4-2: Clinker elevator #1
EP 4-3: Clinker elevator #2
EP 4-8: Drag Line #1
EP 4-9: Drag Line #2
EP 4-10: Drag Line #3



Process 4: Cement Grinding

EP 2-5: Gypsum Reclaim System

EP 5-1: Transfer to Air Separator #1, Cement Cooler #1, Cement Pumps (P007)

EP 5-2: Transfer to Air Separator #2, Cement Cooler #2, Cement Pumps (P008)

EP 5-3: Transfer to Air Separator #3, Cement Cooler #3, Cement Pumps (P009)

EP 5-4: Discharge from Finish Mill #1, Air Separator #1 (P007)

EP 5-5: Discharge from Finish Mill #2, Air Separator #2 (P008)

EP 5-6: Discharge from Finish Mill #3, Air Separator #3 (P009)

Process 6: Fuels - Coal/Coke Handling

EP 2-2: Coal/Coke Reclaim Conveyor System

EP 2-2: Coal/Coke Storage Silo #1 and #2

Process 5: Packing and Shipping

EP 6-1: Packhouse #1 Cement Silos (P001)

EP 6-2: Packhouse #1 Cement Silos (P001)

EP 6-3: Packhouse #2 Cement Silos (P002)

EP 6-4: Packhouse #2 Cement Silos (P002)

EP 6-5: Cement Packing Machine #1 (P003)

EP 6-6: Cement Packing Machine #2, Packhouse #1 Bulk Load-out (P004, P005)

EP 6-7: Packhouse #2 Bulk Load-out (P006)

Process 2: Raw Mix

EP 2-8: Sand /Iron Truck Unloading Area (P901)

EP 3-5: Other Raw Material Conveyor Belt Transfer - Partial Enc. (P901)

EP 3-6: Other Raw Material Conveyor Belt Transfer - Partial Enc. (P901)

EP 3-7: Rock Conveyor to Shuttle Conveyor Transfer - Total Enc. (P901)

EP 3-8: Crossover Conveyor Transfer to ORM Day Bins (P903)

EP 3-9: ORM /Limestone /Fly Ash /Clay Transfer to Raw Mill - Mill Building (P903)

(P905 - additions)

load-in, load-out, and wind erosion from uncalcined and precalcined material storage pile
hopper loading; and
material conveying.

[40 CFR 63.1340(b)]

3. On-site sources that are subject to (or potentially subject to by source category) standards for nonmetallic mineral processing plants in subpart OOO, part 60 of this chapter are not subject to this subpart. Crushers are not covered by this subpart regardless of their location.

[40 CFR 63.1340(c)]

4. The compliance date for existing sources with the requirements for open clinker storage piles in 40 CFR 63.1343(c) is February 12, 2014.

[40 CFR 63.1351(e)]

5. If permittee has a different emissions limit or requirement for the same pollutant under another regulation in CFR Title 40, the permittee must comply with the most stringent emissions limit or requirement and is exempt from the less stringent requirement.

[40 CFR 63.1356]



6. This Title V permit recognizes the provisions for Affirmative Defense for Violation of Emission Standards During Malfunction, from 40 CFR 63.1344.
7. The permittee shall comply with the applicable operational restrictions required under 40 CFR 63 Subpart LLL, including the following sections:

63.1343(c)	must prepare, and operate in accordance with, fugitive dust control measures described in Operation and Maintenance Plan (see 40 CFR 63.1347) - O&M Plan must also include measures to minimize fugitive dust from e.g. accidental spillage
63.1343(c)(1), (2)	For open clinker storage piles, O&M Plan must specify one or more of the following: partial enclosure, water spray or fogging system, chemical dust suppression, wind barrier, compaction, tarpaulin, or vegetative cover. Plan must be specific for each pile; explain how the measure(s) are appropriate for site conditions; and revised as needed.
63.1343(c)(3)	Temporary piles of clinker that result from accidental spillage or clinker storage cleaning operations must be cleaned up within 3 days.
63.1347(a)	must prepare, for each affected source, a written operations and maintenance plan. The O&M Plan must be submitted to the Director for review and approval as part of the application for a 40 CFR 70 (Title V) permit
63.1347(a)(1), (2)	O&M Plan must include: Procedures for proper operation and maintenance of the affected sources and air pollution control devices (including fugitive dust control measures for open clinker piles, of 63.1343 through 63.1348); plans to address periods of startup and shutdown; and corrective actions to be taken when required by 63.1350(f)(3)
63.1347(b)	Failure to comply with any provision of the O&M Plan is a violation of this permit and Subpart LLL.
63.1348(b)(9)	Startup /Shutdown Compliance: all air pollution control devices must be operating.
63.1348(c)	requirements /provisions, If undertake change in operations that may adversely affect compliance with an applicable standard, operating limit, or parametric monitoring value (including notification to the Director)
63.1348(d)	General duty to minimize emissions: must operate and maintain in a manner consistent with safety and good air pollution control practices for minimizing emissions.

8. The permittee shall comply with the applicable monitoring and/or record keeping requirements required under 40 CFR 63 Subpart LLL, including the following sections:

63.1350(f)	must conduct opacity monitoring in accordance with 63.1350(f) and the plan developed under 63.1350(p).
63.1350(f)(1)	monthly 10-minute opacity visible emissions observations for each source by Method 22 - provisions for reduced observation frequency - if 'positive', must do 30-minute Method 9 test within 1 hour - also provisions for exclusion /alternate monitoring for totally enclosed conveying system transfer point, and for emissions points located in buildings
63.1350(f)(2)	for finish mill, daily visible emissions observations of the mill sweep and air separator PM control devices - Method 22, 6 minutes. Within 24 hours of a



	'positive', must conduct follow up Method 22 - if this second one is 'positive', must do 30-minute Method 9 test within 1 hour
63.1350(f)(3)	If any 'positive' Method 22, must initiate within one-hour the corrective actions specified in O&M Plan.
63.1348(b)(1)	Continuous Monitoring Requirements (general)
63.1348(b)(3)	must demonstrate compliance according to 40 CFR 63.1350(f), based on the maximum 6-minute average opacity from performance test - must initiate corrective actions within one hour
63.1350(f)(4)	provisions for finish mills for alternates to visible emissions observations: continuous opacity monitoring system (COMS), or bag leak detection system (BLDS)
63.1350(m)(1),(2), (3), (4)	Parameter monitoring requirements (general) including: minimum of one cycle each 15-minute period; determine 1-hour block averages (if applicable); record the results of each inspection, calibration, and validation check.
63.1350(m)(10)	BLDS requirements (if applicable): each exhaust stack; consistent with the manufacturer's written specifications (and EPA-454/R-98-015, Sep 1997); <10 mg /cu m; relative or absolute PM loadings; continuously record; equipped with an alarm system; provisions for positive pressure systems; provisions for multiple BLDS
63.1350(m)(11)	BLDS (if applicable) - procedures to address cause of alarms (may include process shutdown)
63.1350(o), (p)	provisions for application /request to the Director for approval of alternate monitoring requirements - requirements for BLDS monitoring plan (if applicable): installation; initial /periodic adjustment, including alarm set-point; operation /quality assurance; maintenance, including maintenance schedule /spare parts inventory; BLDS output records /storage; records retention
63.1355(a), (b)	maintain files of all information (including all reports and notifications) readily available for inspection [63.10(b)(1)] - five years retention, two years minimum retained on-site. shall maintain records as required by 63.10(b)(2) and (b)(3); documentation for initial notifications /NOCs under 63.9; applicability determinations; information for recordkeeping /reporting wavier (if applicable)
63.1355(c)	records - continuous monitors (if applicable)
63.1355(g)	requirements: records for malfunctions
63.1355(h)	For each exceedance, must keep records of the date, duration and description of each exceedance; specific actions taken for each exceedance including inspections, corrective actions and repeat performance tests and the results of those actions.

9. The permittee shall comply with the applicable reporting requirements required under 40 CFR 63 Subpart LLL, including the following sections:

63.1354(b)(9)	summary report semiannually - specifications in 63.10(e)(3)(vi). In addition, the summary report shall include all failures to comply with O&M Plan.
63.1353(a)	Notification requirements (General Provision applicability in Table 1 to Subpart LLL)
63.1353(b)	comply with the notification requirements in 40 CFR 63.9 as follows: initial notifications (including via Title V application); notification of performance tests, 63.7 and 63.9(e); notification of opacity and visible emission observations,



	63.6(h)(5) and 63.9(f); notification of compliance status, 63.9(h); requirements where an exceedance triggers retesting
63.1354(a)	Notification requirements (General Provision applicability in Table 1 to Subpart LLL)
63.1354(b)	comply with the reporting requirements in 40 CFR 63.10 as follows (if applicable): 63.10(d)(2), performance test results (as part of the NOC); 63.10(d)(3), opacity results from 63.1349; 63.10(d)(4), compliance extension progress; 63.10(e)(2), COMS reports
63.1354(c)	requirements: reporting a failure to meet a standard due to a malfunction

10. The permittee shall comply with the applicable testing /compliance requirements required under 40 CFR 63 Subpart LLL, including the following sections:

63.1349(b)(2), (d), (e)	Initial opacity tests were conducted in July /August 2002.
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11. The permittee shall comply with all the applicable requirements of 40 CFR, Part 63, Subpart LLL (National Emission Standards for Hazardous Air Pollutants for Portland Cement Manufacturing) as well as with all the applicable requirements of Subpart A of Part 63 (General Provisions), as identified in Table 1 in the Appendix of Subpart LLL

12. The following insignificant emissions units are subject to 40 CFR 63.6580 et seq. (MACT Subpart ZZZZ): P030, P031, and P032. These units are existing emergency <500 HP diesel stationary reciprocating internal combustion engines (RICE) pursuant to 40 CFR 63.6585 and 63.6590(a)(1)(ii).

13. The permittee shall comply with the applicable requirements under 40 CFR 63 Subpart ZZZZ, including the following sections:

40 CFR 63.6595(a)(1)	The compliance date for Part 63 Subpart ZZZZ for existing CI RICE is 10/19/13.
Applicable Tables from Part 63, Subpart ZZZZ	Compliance requirements in Table 2c #1; continuous compliance in Table 6 #9; general provision from Subpart A in Table 8.
40 CFR 63.6602	Maintain compliance with operational limitations in Table 2c #1 (inspection and maintenance requirements) to Part 63 Subpart ZZZZ.
40 CFR 63.6665	Meet all of the general provisions of Subpart A, from Sections 63.1 through 63.15, that apply to the CI RICE, as identified in Table 8 to Subpart ZZZZ.

14. The permittee shall comply with the applicable operational restrictions required under 40 CFR 63 Subpart ZZZZ, including the following sections:

40 CFR 63.6605	General duty to minimize emissions, with good air pollution control practices for minimizing emissions; and compliance required at all times.
40 CFR 63.6625(e)	Operate & maintain RICE according to mfg. instructions and develop a facility maintenance plan for the RICE that meets the requirements of Subpart ZZZZ Table 2c #6.
40 CFR 63.6625(f)	Install a non-resettable hour meter by compliance date.



40 CFR 63.6625(h)	Minimize idle and startup time, not to exceed 30 minutes.
40 CFR 63.6640(f)	Requirements /restrictions for engine to be considered an emergency stationary RICE.

15. The permittee shall comply with the applicable monitoring /record keeping requirements under 40 CFR 63 Subpart ZZZZ, including the following sections:

40 CFR 63.6655(f)	Maintain records of the hours of operation in emergency operations, non-emergency operations, and in maintenance checks and readiness testing, as recorded through the non-resettable hour meter. If the RICE is used for demand response, records of the notification of the emergency and the time of operation, as part of the demand response, is to be maintained.
40 CFR 63.6640(a) and 40 CFR 63.6655(d)	Keep the records required in #9 of Table 6 to Subpart ZZZZ to demonstrate continuous compliance.
40 CFR 63.6655(e)	Records of maintenance and inspections conducted in order to demonstrate compliance with Table 2c and to demonstrate that the RICE was operated and maintained according to the facility's maintenance plan.
40 CFR 63.6625(h)	Maintain a record of each idle and/or startup time that exceeded 30 minutes.
40 CFR 63.6660	Records readily available and retained for at least 5 years after the date of occurrence or date of report according to 63.10(b)(1).

16. The permittee shall comply with the applicable reporting requirements under 40 CFR 63 Subpart ZZZZ, including the following sections:

40 CFR 63.6640(b); and OAC rule 3745-15-03(B)(2) and (D)	Submit in the PER each instance in which the operational requirements in Table 2c of the NESHAP Subpart ZZZZ were not met.
40 CFR 63.6640(e) and OAC rule 3745-15-03(B)(2) and (D)	Submit in the PER each instance in which the applicable requirements in Table 8 to Subpart ZZZZ, the general provisions from Subpart A, were not met.

17. The following insignificant emissions units at this facility must comply with all applicable State and federal regulations, and well as any emission limitations and/or control requirements contained within the identified permit to install for the emissions unit. The insignificant emissions units listed below are subject to one or more applicable requirements contained in a permit to install or in the SIP-approved versions of OAC Chapters 3745-17, 3745-18, and/or 3745-21.

EU ID	Operations, Property and/or Equipment Description
B001	Clay Wash Mill Water Heater - 10 mmBtu/hr Natural Gas (PTI 03-(1)3107 issued December 21, 1998)
F004	Cement kiln dust (baghouse bottoms) - pneumatic conveying and storage
P001	Cement transfer from finish milling to Packhouse #1 silos
P002	Cement transfer from finish milling to Packhouse #2 silos
P003	Cement packaging in Packing Machine #1 at Packhouse #1



EU ID	Operations, Property and/or Equipment Description
P004	Cement bulk load-out (truck & rail) in Packhouse #1
P005	Cement packaging in Packing Machine #2 at Packhouse #1
P006	Cement bulk load-out (truck) in Packhouse #2
P007	Finish ball mill - grinding for clinker and gypsum - 34 tons/hr
P008	Finish ball mill - grinding for clinker and gypsum - 34 tons/hr
P009	Finish ball mill - grinding for clinker and gypsum - 28 tons/hr
P028	Dry Absorbent Addition System - gravity/screw transfer to weigh hopper for kiln #1 - controlled by cartridge filter(PTI P0107001 issued March 9, 2011)
P029	Dry Absorbent Addition System - gravity/screw transfer to weigh hopper for kiln #2 - controlled by cartridge filter(PTI P0107001 issued March 9, 2011)
P030	Kiln Auxiliary Drive#1 - 140 hp, diesel fired engine(PBR11506)
P031	Kiln Auxiliary Drive #2- 140 hp, diesel fired engine(PBR11507)
P032	Fire Pump Engine - 267 hp diesel fired(PBR11508)
P903	Fly Ash Raw Material Silo(PTI 03-7494 issued December 15, 1993)

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



Final Title V Permit
Lafarge North America - Paulding Plant
Permit Number: P0116498
Facility ID: 0363000002
Effective Date: 3/5/2015

C. Emissions Unit Terms and Conditions



1. F003, Roadways

Operations, Property and/or Equipment Description:

Paved and unpaved roadways and parking areas

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

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3) (PTI 03-16227 issued December 7, 2004)	104 tons fugitive particulate emissions (PE) /yr 29.0 tons fugitive particulate matter less than 10 microns in size (PM ₁₀) /yr
b.	OAC rule 3745-17-07(B)(1)	none [See b)(2)j.]
c.	OAC rule 3745-17-08(B)(1)	none [See b)(2)k.]
d.	OAC rule 3745-31-05(A)(3) (PTI 03-16227 issued December 7, 2004) paved roadways and parking areas [see b)(2)a]	no visible PE, except for a period of time not to exceed one minute during any 60-minute observation period best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust [see b)(2)c, and b)(2)e through b)(2)i]
e.	OAC rule 3745-31-05(A)(3) (PTI 03-16227 issued December 7, 2004) unpaved roadways and parking areas [see b)(2)b]	no visible PE, except for a period of time not to exceed three minutes during any 60-minute observation period best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust [see b)(2)d through b)(2)i]

(2) Additional Terms and Conditions

a. The paved roadways that are subject to the terms and conditions of this permit are listed below:



paved roadways: all paved road segments

paved parking areas: all paved parking areas

- b. The unpaved roadways and parking areas that are subject to the terms and conditions of this permit are listed below:

unpaved roadways: all unpaved road segments

unpaved parking areas: all unpaved parking areas

- c. The permittee shall employ best available control measures on all paved roadways and parking areas for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to treat the paved roadways and parking areas with watering and sweeping at sufficient treatment frequencies to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other equally-effective control measures to ensure compliance.
- d. The permittee shall employ best available control measures on all unpaved roadways and parking areas for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to treat the unpaved roadways and parking areas with watering or other suitable dust suppression chemicals, at sufficient treatment frequencies to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other equally-effective control measures to ensure compliance.
- e. The needed frequencies of implementation of the control measures shall be determined by the permittee's inspections pursuant to the monitoring section of this permit. Implementation of the control measures shall not be necessary for a paved or unpaved roadway or parking area that is covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements. Implementation of any control measure may be suspended if unsafe or hazardous driving conditions would be created by its use.
- f. Any unpaved roadway or parking area, which during the term of this permit is paved or takes the characteristics of a paved surface due to the application of certain types of dust suppressants, may be controlled with the control measure(s) specified above for paved surfaces. Any unpaved roadway or parking area that takes the characteristics of a paved roadway or parking area due to the application of certain types of dust suppressants shall remain subject to the visible emission limitation for unpaved roadways and parking areas. Any unpaved roadway or parking area that is paved shall be subject to the visible emission limitation for paved roadways and parking areas.
- g. The permittee shall promptly remove, in such a manner as to minimize or prevent re-suspension, earth and/or other material from paved streets onto which such



- (4) The permittee shall maintain records of the following information:
- a. the date and reason any required inspection was not performed, including those inspections that were not performed due to snow and/or ice cover or precipitation;
 - b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measures;
 - c. the dates the control measures were implemented; and
 - d. on a calendar quarter basis, the total number of days the control measures were implemented and the total number of days where snow and/or ice cover or precipitation were sufficient to not require the control measures.

The information required in (3)d shall be kept separately for (i) the paved roadways and parking areas and (ii) the unpaved roadways and parking areas, and shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.
[OAC 3745-77-07(C)(1) and PTI 03-16227]

e) Reporting Requirements

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

These reports shall be submitted in accordance with the reporting requirements specified in the Standard Terms and Conditions of this permit.
[OAC 3745-77-07(C)(1) and PTI 03-16227]

f) Testing Requirements

- (1) Compliance with the emission limitations in b)(1) shall be determined in accordance with the following method(s):
- a. Emission Limitation:
104 tons fugitive PE/year
- Applicable Compliance Method:
The emission limitation was determined by summing the total emission rates from unpaved and paved roadways and parking areas, and then dividing by 2000 pounds/ton.



The emission rate was determined as follows:

- i. for paved areas, multiply the appropriate emission factor from AP-42 (Chapter 13.2.1, revised 12/03) of 5.95 pounds PE/vehicle mile traveled (VMT) by the maximum VMT of 33,209 miles/year, and a control factor of $(1 - 0.95)^*$; and
- ii. for unpaved areas, multiply the appropriate emission factor from AP-42 (Chapter 13.2.2, revised 12/03) of 10.97 pounds PE/VMT by the maximum VMT of 71,924 miles/year, and a control factor of $(1 - 0.75)^*$.

* The control efficiency for dust suppression is assumed to be 95% for paved areas and 75% for unpaved areas.

Provided compliance is shown with the requirements of this permit to apply best available control measures, compliance with the annual PE limitation will be assumed.

[OAC 3745-77-07(C)(1)and PTI 03-16227]

- b. Emission Limitation:
29.0 tons fugitive PM₁₀/year

Applicable Compliance Method:

The emission limitation was determined by summing the total emission rates from unpaved and paved roadways and parking areas, and then dividing by 2000 pounds/ton.

The emission rate was determined as follows:

- i. for paved areas, multiply the appropriate emission factor from AP-42 (Chapter 13.2.1, revised 12/03) of 1.16 pounds PM₁₀/vehicle mile traveled (VMT) by the maximum VMT of 33,209 miles/year, and a control factor of $(1 - 0.95)^*$; and
- ii. for unpaved areas, multiply the appropriate emission factor from AP-42 (Chapter 13.2.2, revised 12/03) of 3.12 pounds PM₁₀/VMT by the maximum VMT of 71,924 miles/year, and a control factor of $(1 - 0.75)^*$.

* The control efficiency for dust suppression is assumed to be 95% for paved areas and 75% for unpaved areas.

Provided compliance is shown with the requirements of this permit to apply best available control measures, compliance with the annual PM₁₀ limitation will be assumed.

[OAC 3745-77-07(C)(1)and PTI 03-16227]

- c. Emission Limitation:
There shall be no visible particulate emissions from any paved roadway or parking area except for a period of time not to exceed one minute during any 60-minute period.



Applicable Compliance Method:

Compliance with the visible emission limitation listed above shall be determined in accordance with Test Method 22 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(4)(1) through (B)(4)(d) of OAC rule 3745-17-03. [OAC 3745-77-07(C)(1) and PTI 03-16227]

d. Emission Limitation:

There shall be no visible particulate emissions from any unpaved roadway or parking area except for a period of time not to exceed three minutes during any 60-minute observation period.

Applicable Compliance Method:

Compliance with the visible emission limitation listed above shall be determined in accordance with Test Method 22 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(4)(1) through (B)(4)(d) of OAC rule 3745-17-03. [OAC 3745-77-07(C)(1) and PTI 03-16227]

g) Miscellaneous Requirements

(1) None.



2. P013, Hammermill Crusher

Operations, Property and/or Equipment Description:

Hammermill crusher - (limestone) unloading trucks, crushing material, discharging to conveyors - with baghouse

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

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-17-11(B)	none [See b)(2)a.]
b.	OAC rule 3745-17-07(A)	none [See b)(2)b.]

(2) Additional Terms and Conditions

a. The uncontrolled mass rate of particulate emissions from this emissions unit is less than 10 lbs / hr. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(a)(ii), Figure II of OAC rule 3745-17-11 does not apply. Also, Table 1 does not apply because the facility is located in Paulding County.

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 OAC rule 3745-17-11 is not applicable.

c) Operational Restrictions

(1) None.

d) Monitoring and/or Recordkeeping Requirements

(1) None.

e) Reporting Requirements

(1) None.



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- f) Testing Requirements
 - (1) None.
- g) Miscellaneous Requirements
 - (1) None.



3. P901, Raw Material Handling

Operations, Property and/or Equipment Description:

(Other) raw material storage, conveying, handling - (ORM day bin)with process baghouse

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

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05 (PTI 03-8914 issued January 4, 1996)	4.7 lbs/day fugitive particulate emissions (PE) [from the conveyors and storage hall] 0.005 gr/dscf or no visible emissions (0% opacity) [from the process baghouse] Visible emissions shall not exceed 1 minute in any 60-minute observation period [from the storage hall egress points] See b)(2)a.
b.	OAC rule 3745-17-11(B)	See b)(2)b.
c.	OAC rule 3745-17-07(A)	See b)(2)b.
d.	OAC rule 3745-17-07(B)(1)	none [See b)(2)c.]
e.	OAC rule 3745-17-08(B)	none [See b)(2)d.]
f.	40 CFR Part 63, Subpart LLL (40 CFR 63.1340-1359) See b)(2)e.	10 percent opacity, as a six-minute average [40 CFR 63.1348] See d)(3), e)(3), f)(1)e, and f)(2).
g.	40 CFR 63.1-15 (40 CFR 63 Subpart LLL – Appendix)	Table 1 to Subpart LLL of 40 CFR Part 63 – Applicability of General Provisions to Subpart LLL shows which parts of the General Provisions in 40 CFR 63.1-15 apply.
h.	40 CFR Part 60, Subpart F	exempt, pursuant to 40 CFR 63.1356 (40 CFR Part 63, Subpart LLL)



(2) Additional Terms and Conditions

- a. The requirements of this rule also include compliance with the requirements of 40 CFR, Part 60, Subpart LLL.
- b. The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05.
- c. This emissions unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(B) pursuant to OAC rule 3745-17-07(B)(11)(e).
- d. The facility is not located within an "Appendix A" area as identified in OAC rule 3745-17-08. Therefore, pursuant to OAC rule 3745-17-08(A), this emissions unit is exempt from the requirements of OAC rule 3745-17-08(B)(1).
- e. In accordance with 40 CFR 63.1340(b), this emissions unit is an existing raw material, clinker, or finished product storage bin /conveying system transfer point at a facility which is a major source subject to the emissions limitations / control measures specified in this section.

c) Operational Restrictions

- (1) The drop height of the front end loader bucket shall be minimized to the extent possible in order to minimize or eliminate visible emissions of fugitive dust from the transfer of material into the conveyor hopper.
[OAC 3745-77-07(C)(1) and PTI 03-8914]

d) Monitoring and/or Recordkeeping Requirements

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

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

In response to each required investigation to determine the cause of a deviation, the permittee shall take prompt corrective action to bring the operation of the control equipment within the acceptable range(s) specified below, unless the permittee determines that corrective action is not necessary and documents the reasons for that determination and the date and time the deviation ended. The permittee shall maintain records of the following information for each corrective action taken: a description of the corrective action, the date it was completed, the date and time the deviation ended, the



total period of time (in minutes) during which there was a deviation, the pressure drop readings immediately after the corrective action, and the names of the personnel who performed the work. Investigation and records required by this paragraph does not eliminate the need to comply with the requirements of OAC rule 3745-15-06 if it is determined that a malfunction has occurred.

The acceptable range for the pressure drop across the baghouse is 3 to 7 inches of water.

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

[OAC 3745-77-07(C)(1) and PTI 03-8914]

- (2) The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible emissions from the baghouse and for any visible fugitive dust emissions from the conveyor transfer points, storage piles, and storage hall egress points associated with 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. the cause of the visible emissions;
- c. the total duration of any visible emission incident; and
- d. any corrective actions taken to eliminate the visible emissions.

[OAC 3745-77-07(C)(1) and PTI 03-8914]

- (3) The permittee shall comply with the applicable monitoring and record keeping requirements required under 40 CFR 63 Subpart LLL, including the following sections:

63.1350 - monitoring requirements

63.1355 - recordkeeping requirements

[OAC 3745-77-07(C)(1), and 40 CFR 63 Subpart LLL]

e) Reporting Requirements

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

- a. each period of time when the pressure drop across the baghouse(s) was outside the acceptable range(s);



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

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

[OAC 3745-77-07(C)(1) and PTI 03-8914]

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

[OAC 3745-77-07(C)(1) and PTI 03-8914]

- (3) The permittee shall comply with the applicable reporting requirements required under 40 CFR 63 Subpart LLL, including the following sections:

63.1353 - notification requirements

63.1354 - reporting requirements

[OAC 3745-77-07(C)(1), and 40 CFR 63 Subpart LLL]

f) Testing Requirements

- (1) Compliance with the emission limitations in b)(1) shall be determined in accordance with the following method(s):

- a. Emission Limitation:
4.7 lbs/day fugitive PE [from the conveyors and storage hall]

Applicable Compliance Method:

Compliance with the daily allowable PE limitation above may be determined by multiplying the AP-42, Table 8.19-1.1 (as revised in a 9/85 version) emission factor of 13.2 lbs PE/acre/day by the maximum total area of the storage hall (0.25 acre).

[OAC 3745-77-07(C)(1) and PTI 03-8914]

- b. Emission Limitation:
no visible emissions (0% opacity), from the process baghouse



Applicable Compliance Method:

If required, the permittee shall demonstrate compliance in accordance with 40 CFR, Part 60, Appendix A, Method 9.

[OAC 3745-77-07(C)(1) and PTI 03-8914]

c. **Emission Limitation:**

Visible emissions shall not exceed 1 minute in any 60-minute observation period [from the storage hall egress points]

Applicable Compliance Method:

If required, compliance with the visible emission limitation specified above shall be determined in accordance with Test Method 22 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(c) of OAC rule 3745-17-03.

[OAC 3745-77-07(C)(1) and PTI 03-8914]

d. **Emission Limitation:**

0.005 gr/dscf [from the process baghouse]

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with the limitation above in accordance with 40 CFR, Part 60, Appendix A, Methods 1 - 5.

[OAC 3745-77-07(C)(1) and PTI 03-8914]

e. **Emission Limitation:**

10 percent opacity, as a six-minute average

Applicable Compliance Method:

The permittee shall demonstrate compliance with this limitation in accordance with 40 CFR, Part 60, Appendix A, Method 9, and the compliance procedures and performance test methods specified in section f)(2) of the terms and conditions of this permit.

[OAC rule 3745-77-07(C)(1) and 40 CFR 63 Subpart LLL]

- (2) The permittee shall comply with the applicable compliance requirements as required under 40 CFR 63 Subpart LLL, including the following sections:

63.1349 - performance testing requirements

[OAC 3745-77-07(C)(1), and 40 CFR 63 Subpart LLL]

g) **Miscellaneous Requirements**

- (1) None.



4. P905, Mid Kiln Feed System for Uncalcined&Precalcined Materials

Operations, Property and/or Equipment Description:

Uncalcined and precalcined materials mid-kiln feed systemhoppers and transfer withbaghouses

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

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05 (A)(3) (PTI 03-16227 issued December 7, 2004)	See b)(2)b and b)(2)c. <u>Fugitive Emissions:</u> 0.24 ton particulate emissions (PE) /year 0.12 ton particulate matter less than 10 microns in size (PM ₁₀) /year visible fugitive PE limitations [See b)(2)d.] best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust [See b)(2)e through b)(2)g.] <u>Stack Emissions:</u> 0.01 grains PE /dscf 10.2 tons PE /year [See b)(2)i.] Visible particulate emissions from the baghouse stacks serving this emissions unit shall not exceed 5 percent opacity, as a six-minute average. See b)(2)h.
b.	OAC rule 3745-17-07(B)(1)	none [See b)(2)j.]
c.	OAC rule 3745-17-08(B)	none [See b)(2)k.]
d.	OAC rule 3745-17-11(B)	none [See b)(2)l.]
e.	OAC rule 3745-17-07(A)	none [See b)(2)m.]



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
f.	40 CFR Part 63, Subpart LLL (40 CFR 63.1340-1359) See b)(2)n.	10 percent opacity, as a six-minute average [40 CFR 63.1348] See d)(5), e)(4), f)(1)i, and f)(2).
g.	40 CFR 63.1-15 (40 CFR 63 Subpart LLL – Appendix)	Table 1 to Subpart LLL of 40 CFR Part 63 – Applicability of General Provisions to Subpart LLL shows which parts of the General Provisions in 40 CFR 63.1-15 apply.

(2) Additional Terms and Conditions

- a. The following mid-kiln feed system emission points are covered by this permit and subject to the above-mentioned requirements:
 - i. load-in, load-out, and wind erosion from uncalcined and precalcined material storage pile;
 - ii. hopper loading; and
 - iii. material conveying.
- b. The best available technology (BAT) control requirements for this emissions unit have been determined to be building enclosures and the use of four baghouses (306-DC-01, 306-DC-02, 306-DC-03, and 306-DC-04) which are capable of achieving maximum outlet concentrations of 0.01 gr/dscf.
- c. The requirements of this rule also include compliance with the requirements of 40 CFR Part 63, Subpart LLL.
- d. Visible fugitive particulate emissions (PE) associated with the mid-kiln feed system shall not exceed the following opacity restrictions:
 - i. There shall be no visible fugitive PE from the material transfer, conveying, and bin loading operations, including the enclosed operations, associated with the mid-kiln feed system, except from hopper loading which is subject to the requirements of 40 CFR 63 Subpart LLL.
 - ii. There shall be no visible fugitive PE from the load-in and load-out operations of the storage piles associated with the mid-kiln feed system, except for a period of time not to exceed one minute during any 60-minute observation period.
 - iii. There shall be no visible fugitive PE from wind erosion of the storage piles associated with the mid-kiln feed system, except for a period of time not to exceed one minute during any 60-minute observation period.



- e. The permittee shall employ best available control measures for the load-in, load-out, and wind erosion emissions from the material storage pile associated with the mid-kiln feed system for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee maintains that the inherent moisture content and silt content of the materials processed/handled is at a level which is sufficient to comply with all applicable requirements. If at anytime the moisture content and/or silt content is not sufficient to meet the above applicable requirements, the permittee has committed to watering, as needed. In addition, the permittee has committed to reduced drop heights and maintaining as low of a pile height as possible to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- f. The control measure(s) specified in A.1.2.e shall be employed if the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the control measure(s) are necessary to ensure compliance with the above-mentioned applicable requirements. Any required implementation of the control measure(s) shall continue during any such operation until further observation confirms that use of the measure(s) is unnecessary.
- g. Implementation of the above-mentioned control measures, in accordance with the terms and conditions of this permit, is appropriate and sufficient to satisfy the requirements of OAC rule 3745-31-05 (A)(3).
- h. All particulate emissions from the baghouses are assumed to be particulate matter less than 10 μ m in size (PM₁₀).
- i. The total annual PE limitation is comprised of four emission points: baghouse 306-DC-01, baghouse 306-DC-02, baghouse 306-DC-03, and baghouse 306-DC-04. The emission limitation of 10.16 tons PE/year is a summation of the emissions from the four emission points.
- j. This emissions unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(B) pursuant to OAC rule 3745-17-07(B)(11)(e).
- k. The facility is not located within an "Appendix A" area as identified in OAC rule 3745-17-08. Therefore, pursuant to OAC rule 3745-17-08(A), this emissions unit is exempt from the requirements of OAC rule 3745-17-08(B)(1).
- l. The uncontrolled mass rate of particulate emissions from this emissions unit is less than 10 lbs / hr. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(a)(ii), Figure II of OAC rule 3745-17-11 does not apply. Also, Table 1 does not apply because the facility is located in Paulding County.
- m. 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 OAC rule 3745-17-11 is not applicable.



n. In accordance with 40 CFR 63.1340(b), this emissions unit is an existing raw material, clinker, or finished product storage bin /conveying system transfer point / bulk loading or unloading system at a facility which is a major source subject to the emissions limitations / control measures specified in this section.

c) Operational Restrictions

(1) None.

d) Monitoring and/or Recordkeeping Requirements

(1) Except as otherwise provided in this section, the permittee shall perform inspections of the fugitive dust operations/sources in accordance with the following frequencies:

<u>Storage pile operations:</u>	<u>Minimum inspection frequency:</u>
load-in operations	once during each day of operation
load-out operations	once during each day of operation
wind erosion from pile surface	once during each day of operation

(2) The purpose of the inspections is to determine the need for implementing the above-mentioned control measures for particulate emissions. The inspections shall be performed during representative, normal operating conditions. No inspection shall be necessary for a fugitive dust operation/source that is covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements. Any required inspection that is not performed due to any of the above identified event shall be performed as soon as such event(s) has (have) ended, except if the next inspection is within one week.
[OAC 3745-77-07(C)(1) and PTI 03-16227]

(3) The permittee may, upon receipt of written approval from the appropriate Ohio EPA District Office or local air agency, modify the above-mentioned inspection frequencies if operating experience indicates that less frequent inspections would be sufficient to ensure compliance with the above-mentioned applicable requirements.
[OAC 3745-77-07(C)(1) and PTI 03-16227]

(4) The permittee shall maintain records of the following information:

- a. the date and reason any required inspection was not performed;
- b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measure(s);
- c. the dates the control measure(s) was (were) implemented; and
- d. on a calendar quarter basis, the total number of days the control measure(s) was (were) implemented.

The information in d)(3)d shall be kept separately for each fugitive dust operation/source listed above, and shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.
[OAC 3745-77-07(C)(1) and PTI 03-16227]



- (5) The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for (a) any visible fugitive emissions from transfer operations that are not contained within an enclosure and (b) any visible fugitive emissions from enclosures containing the transfer operations associated with the mid-kiln feed system. The presence or absence of any visible fugitive emissions shall be noted in an operations log. If visible fugitive emissions are observed, the permittee shall also note the following in the operations log:
- a. the color and location of the emissions;
 - b. the total duration of any visible emission incident; and
 - c. any corrective actions taken to eliminate the visible emissions.
[OAC 3745-77-07(C)(1) and PTI 03-16227]
- (6) The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from each of the baghouse stacks 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 baghouse stack identification number;
 - b. the color of the emissions;
 - c. the total duration of any visible emission incident; and
 - d. any corrective actions taken to eliminate the visible emissions.
[OAC 3745-77-07(C)(1) and PTI 03-16227]
- (7) The permittee shall comply with the applicable monitoring and record keeping requirements required under 40 CFR 63 Subpart LLL, including the following sections:
- 63.1350 - monitoring requirements
- 63.1355 - recordkeeping requirements
[OAC 3745-77-07(C)(1), and 40 CFR 63 Subpart LLL]

e) Reporting Requirements

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

These reports shall be submitted in accordance with the reporting requirements specified in the Standard Terms and Conditions of this permit.
[OAC 3745-77-07(C)(1) and PTI 03-16227]

- (2) The permittee shall submit semiannual written reports which identify the following:



- a. each day during which any visible fugitive emissions were observed from the transfer operations associated with the mid-kiln feed system that are not contained within an enclosure;
- b. each day during which any visible fugitive emissions were observed from the enclosures containing the transfer operations associated with the mid-kiln feed system; and
- c. describe any corrective actions taken to eliminate the visible fugitive emissions.

These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.

[OAC 3745-77-07(C)(1) and PTI 03-16227]

- (3) The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from any of the baghouse stacks serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.
[OAC 3745-77-07(C)(1) and PTI 03-16227]

- (4) The permittee shall comply with the applicable reporting requirements required under 40 CFR 63 Subpart LLL, including the following sections:

63.1353 - notification requirements

63.1354 - reporting requirements

[OAC 3745-77-07(C)(1), and 40 CFR 63 Subpart LLL]

f) Testing Requirements

- (1) Compliance with the emission limitations in b)(1) shall be determined in accordance with the following method(s):

Emission Limitation: fugitive
0.24 ton PE/year

Applicable Compliance Method:

The emission limitation was determined by summing the total emission rates associated with the material storage pile and material handling operations, and then dividing by 2000 pounds/ton.

The emission rate was determined as follows:

- i. for load-in/load-out of storage piles, multiply the appropriate emission factor from AP-42 (Chapter 11.19.2, revised 8/04) of 0.00010 pound PM₁₀/ton of aggregate processed by the maximum capacity of 100



tons/hour, a maximum operating schedule of 8760 hours/year, and a particle size multiplier of 2.1;

- ii. for wind erosion from storage piles, multiply the appropriate emission factor from USEPA's Control of Open Fugitive Dust Sources (9/98) of 3.78 lbs PE/day/acre by 365 days/year, and 0.01 acres; and
- iii. for hopper loading, multiply the appropriate emission factor from AP-42 (Chapter 11.19.2, revised 8/04) of 0.00010 pound PM₁₀/ton of aggregate processed by the maximum capacity of 100 tons/hour, a maximum operating schedule of 8760 hours/year, and a particle size multiplier of 2.1.

Provided compliance is shown with the requirements of this permit to apply best available control measures, compliance with the annual PE limitation will be assumed.

[OAC 3745-77-07(C)(1) and PTI 03-16227]

- b. Emission Limitation: fugitive
0.12 ton PM₁₀/year

Applicable Compliance Method:

The emission limitation was determined by summing the total emission rates associated with the material storage piles and material handling operations, and then dividing by 2000 pounds/ton.

The emission rate was determined as follows:

- i. for load-in/load-out of storage piles, multiply the appropriate emission factor from AP-42 (Chapter 11.19.2, revised 8/04) of 0.00010 pound PM₁₀/ton of aggregate processed by the maximum capacity of 100 tons/hour, and a maximum operating schedule of 8760 hours/year;
- ii. for wind erosion from storage piles, multiply the appropriate emission factor from USEPA's Control of Open Fugitive Dust Sources (9/98) of 3.78 lbs PE/day/acre by 365 days/year, and 0.01 acres; and
- iii. for hopper loading, multiply the appropriate emission factor from AP-42 (Chapter 11.19.2, revised 8/04) of 0.00010 pound PM₁₀/ton of aggregate processed by the maximum capacity of 100 tons/hour, and a maximum operating schedule of 8760 hours/year.

Provided compliance is shown with the requirements of this permit to apply best available control measures, compliance with the annual PE limitation will be assumed.

[OAC 3745-77-07(C)(1) and PTI 03-16227]

- c. Emission Limitation: stack
0.01 grains PE/dscf

Applicable Compliance Method:



This limitation was established based on the manufacturer's guaranteed maximum outlet concentration. If required, compliance with the particulate emission limitation shall be determined in accordance with the test methods and procedures specified in 40 CFR Part 60, Appendix A - Methods 1-5. [OAC 3745-77-07(C)(1) and PTI 03-16227]

- d. Emission Limitation: stack
10.2 tons PE/year

Applicable Compliance Method:

The permittee shall demonstrate compliance with the annual limitation by summing the annual emission rates from the four baghouses (306-DC-01, 306-DC-02, 306-DC-03, and 306-DC-04) associated with this emissions unit and multiplying by 60 minutes/hour and 8760 hours/year, and then dividing by 7000 grains/pound and 2000 pounds/ton.

The emission rate was determined as follows:

- i. for 306-DC-01, multiply the maximum outlet concentration from the baghouse of 0.01 grains PE/dscf by the maximum volumetric air flow of 1,500 dscf;
- ii. for 306-DC-02, multiply the maximum outlet concentration from the baghouse of 0.01 grains PE/dscf by the maximum volumetric air flow of 12,000 dscf;
- iii. for 306-DC-03, multiply the maximum outlet concentration from the baghouse of 0.01 grains PE/dscf by the maximum volumetric air flow of 12,000 dscf;
- iv. for 306-DC-04, multiply the maximum outlet concentration from the baghouse of 0.01 grains PE/dscf by the maximum volumetric air flow of 1,500 dscf;

Provided compliance is demonstrated with the maximum outlet concentrations, compliance with the annual emission limitation will be assumed. [OAC 3745-77-07(C)(1) and PTI 03-16227]

- e. Emission Limitation:
There shall be no visible fugitive PE from the load-in and load-out operations of the storage piles associated with the mid-kiln feed system, except for a period of time not to exceed one minute during any 60-minute observation period.

Applicable Compliance Method:

If required, compliance with the visible emission limitation specified above shall be determined in accordance with Test Method 22 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 1996, and the



modifications listed in paragraphs (B)(4)(a) through (B)(4)(c) of OAC rule 3745-17-03.

[OAC 3745-77-07(C)(1) and PTI 03-16227]

f. Emission Limitation:

There shall be no visible fugitive PE from wind erosion of the storage piles associated with the mid-kiln feed system, except for a period of time not to exceed one minute during any 60-minute observation period.

Applicable Compliance Method:

If required, compliance with the visible emission limitation specified above shall be determined in accordance with Test Method 22 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(c) of OAC rule 3745-17-03.

[OAC 3745-77-07(C)(1) and PTI 03-16227]

g. Emission Limitation:

There shall be no visible fugitive PE from the material transfer, conveying, and bin loading operations, including the enclosed operations, associated with the mid-kiln feed system except from hopper loading.

Applicable Compliance Method:

If required, compliance with the visible emission limitation specified above shall be determined in accordance with Test Method 22 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(c) of OAC rule 3745-17-03.

[OAC 3745-77-07(C)(1) and PTI 03-16227]

h. Emission Limitation:

Visible particulate emissions from the baghouse stacks serving this emissions unit shall not exceed 5 percent opacity, as a six-minute average.

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance in accordance with 40 CFR, Part 60, Appendix A, Method 9.

[OAC 3745-77-07(C)(1) and PTI 03-16227]

i. Emission Limitation:

10 percent opacity, as a six-minute average

Applicable Compliance Method:

The permittee shall demonstrate compliance with this limitation in accordance with 40 CFR, Part 60, Appendix A, Method 9, and the compliance procedures



and performance test methods specified in section f)(2) of the terms and conditions of this permit.

[OAC rule 3745-77-07(C)(1) and 40 CFR 63 Subpart LLL]

- (2) The permittee shall comply with the applicable compliance requirements as required under 40 CFR 63 Subpart LLL, including the following sections:

- 63.1349 - performance testing requirements
[OAC 3745-77-07(C)(1), and 40 CFR 63 Subpart LLL]

- g) Miscellaneous Requirements

- (1) None.



5. Emissions Unit Group -Cement Kiln Group: Kilns 1 and 2: P014, P015

EU ID	Operations, Property and/or Equipment Description
P014	Cement Kiln #1 -- cement clinker manufacture in rotary wet kiln #1 (North), waste-derived fuel and coal, with baghouse with dry absorbent addition, and selective non-catalytic reduction
P015	Cement Kiln #2 -- cement clinker manufacture in rotary wet kiln #2 (South), waste-derived fuel and coal, with baghouse with dry absorbent addition, and selective non-catalytic reduction

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

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-17-11(B)	75 pounds per hour (lbs/hr) of particulate emissions (PE)
b.	OAC rule 3745-17-07(A)	See b)(2)j.
c.	OAC rule 3745-18-69(B)	43.0 pounds sulfur dioxide (SO ₂) per ton of cement produced See b)(2)k, c)(5), and d)(9).
d.	40 CFR Part 61, Subpart FF	Exempt, pursuant to 40 CFR 61.348(d)(4).
e.	40 CFR Part 63, Subpart EEE (40 CFR 63.1200-1221) See b)(2)b.	emissions standards and related requirements [40 CFR 63.1204 and 63.1220] See b)(2)a, b)(2)c, b)(2)d, c)(1), c)(2), c)(3), d)(1), e)(1), and f)(2).
f.	40 CFR 63.1-15 (40 CFR Part 63, Subpart EEE – Appendix)	Table 1 to Subpart EEE of 40 CFR Part 63 – Applicability of General Provisions to Subpart EEE shows which parts of the General Provisions in 40 CFR 63.1-15 apply.
g.	OAC 3745-31-05(A)(3) (PTI P0116153 issued February 14, 2014)	See b)(2)e.
h.	OAC rule 3745-31-05(D)	See b)(2)f.



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
	(PTI P0116153 issued February 14, 2014)	

(2) Additional Terms and Conditions

- a. The permittee shall comply with the emissions standards and related requirements of 40 CFR 63.1204, until the next Comprehensive Performance Test and associated requirements are completed and approved, at which time the emissions standards and related requirements of 40 CFR 63.1220 become effective.
- b. In accordance with 40 CFR 63.1200 and 63.1201, this emissions unit is a hazardous waste burning cement kiln subject to the emissions limitations /control measures specified in this section.
- c. The permittee shall comply with the applicable additional requirements required under 40 CFR 63 Subpart EEE, including the following sections:

63.1220(a)(1)(ii)	dioxin /furan: 0.40 ng TEQ per dscm, corrected to 7 percent oxygen (for <400 deg F combustion gas temperature at baghouse inlet)
63.1220(a)(2)(i)	mercury: 3.0 ppm (by weight) average as-fired in all hazardous waste feedstreams
63.1220(a)(2)(ii)	mercury: A hazardous waste feed maximum theoretical emission concentration (MTEC) in excess of 0.12 mg/dscm
63.1220(a)(3)(i)	SVM (i.e. cadmium /lead): 7.6×10^{-4} lbs per million Btu heat input from the hazardous waste (and attributable to the hazardous waste)
63.1220(a)(3)(ii)	SVM (i.e. cadmium /lead): 330 ug per dscm, corrected to 7 percent oxygen
63.1220(a)(4)(i)	LVM (i.e. arsenic /beryllium /chromium): 2.1×10^{-5} lbs per million Btu heat input from the hazardous waste (and attributable to the hazardous waste)
63.1220(a)(4)(ii)	LVM (i.e. arsenic /beryllium /chromium): 56 ug per dscm, corrected to 7 percent oxygen
63.1220(a)(5)(i)(A)	carbon monoxide (CO): 100 ppm (by volume), dry basis, corrected to 7 percent oxygen (and associated hydrocarbon concentration and DRE testing requirement)
63.1220(a)(6)	Hydrogen chloride /chlorine gas: 120 ppm (by volume), dry basis, corrected to 7 percent oxygen
63.1220(a)(7)(i)	particulate matter (PM): 0.028 gr per dscf corrected to 7 percent oxygen
63.1220(a)(7)(ii)	Opacity not greater than 20 percent
63.1220(c)(1)	Destruction and Removal Efficiency (DRE): 99.99%, for each designated principle organic hazardous constituent (POHC) as specified from 63.1220(c)(3)



- d. The emission limits provided by 40 CFR 63.1220 (a) and (b) are presented with two significant figures. Although intermediate calculations must use at least three significant figures, the resultant emission levels may be rounded to two significant figures to document compliance.
[40 CFR 63.1220(f)]
- e. Best Available Technology has been determined to be compliance with the terms and conditions of the permit to install for these emissions units.
- f. The facility agreed and consented to entry into a Consent Decree with the United States of America (Civil Action No. 3:10-cv-00044-JPG-CJP, entered January 21, 2010) requiring the permittee to install selective non-catalytic reduction (SNCR) and dry absorbent addition (DAA) units to control nitrogen oxides (NO_x) and sulfur dioxide (SO₂) emissions to the following emission rates:
 - i. P014: 6.01 lbs NO_x per ton of clinker, as a 30-day rolling average.
 - ii. P014: 5.52 lbs SO₂ per ton of clinker, as a 30-day rolling average.
 - iii. P015: 5.46 lbs NO_x per ton of clinker, as a 30-day rolling average.
 - iv. P015: 6.80 lbs SO₂ per ton of clinker, as a 30-day rolling average.

Note: This Title V permit fully recognizes any /all requirements and authorities as established in the federal Consent Decree, as may be applicable to this facility. [for example: this Title V permit recognizes that the Consent Decree emission reduction is excluded from consideration for creditable contemporaneous emission decrease for federal PSD /NSR purposes, as in Consent Decree Paragraph 86]

- g. The permittee shall maintain a written quality assurance/quality control plan for the continuous NO_x monitoring system, designed to ensure continuous valid and representative readings of NO_x emissions in units of the applicable standard(s). 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 NO_x monitoring system must be kept on site and available for inspection during regular office hours.

The plan shall include the requirement to conduct quarterly Cylinder Gas Audits or Relative Accuracy Audits as required in 40 CFR Part 60; and to conduct Relative Accuracy Test Audits in units of the standard(s), in accordance with and at the frequencies required per 40 CFR Part 60.

- h. The permittee shall maintain a written quality assurance/quality control plan for the continuous SO₂ monitoring system, designed to ensure continuous valid and representative readings of SO₂ emissions in units of the applicable standard(s). 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.

The plan shall include the requirement to conduct quarterly Cylinder Gas Audits or Relative Accuracy Audits as required in 40 CFR Part 60; and to conduct Relative Accuracy Test Audits in units of the standard(s), in accordance with and at the frequencies required per 40 CFR Part 60.

- i. The continuous emission monitoring system(s) consists of all the equipment used to acquire data to provide a record of emissions and includes the sample extraction and transport hardware, sample conditioning hardware, analyzers, and data recording/processing hardware and software.
- j. The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to 40 CFR, Part 63, Subpart EEE.
- k. This emissions limit is less stringent than the emission limits of 5.52 (P014) and 6.80 (P015) lbs SO₂ per ton of clinker in b)(2)f from the Consent Decree.

c) Operational Restrictions

- (1) The permittee shall comply with the applicable operational restrictions required under 40 CFR 63 Subpart EEE, including the following sections for compliance with standards:

63.1206(b)(1)	emission standards and operating requirements apply at all times except: startup, shutdown, and malfunction; and when hazardous waste is not in the combustion chamber, and documentation in the operating record of compliance with otherwise applicable requirements
63.1206(b)(2)	compliance determined as provided by 40 CFR 63.6(f)(2) - performance testing conducted under representative of the extreme range of normal conditions
63.1206(b)(3)	finding concerning compliance with the emission standards and other requirements of this subpart as provided by 40 CFR 63.6(f)(3)
63.1206(b)(5)(i)	requirements for change(s) in design, operation, or maintenance, that may adversely affect compliance (not monitored with a CEMS) - notification, performance test, restriction on waste burning[informational note: none at this time of the processing of this permit]
63.1206(b)(5)(ii)	requirements for changes that will not affect compliance - document the change in the operating record, revise performance test plan, Documentation of Compliance (DOC), Notification of Compliance (NOC), and Start-up, Shutdown, and Malfunction Plan (SSMP)[informational note: none at this time of the processing of this permit]
63.1206(b)(6)	compliance with the carbon monoxide and hydrocarbon emission standards - by documenting continuous compliance with the CO CEMS, and documenting compliance with the hydrocarbon standard during the DRE performance test or its equivalent
63.1206(b)(7)(iii)	perform DRE testing during the initial comprehensive performance



	test (for sources that do not use DRE previous testing to document conformance with the DRE standard)
63.1206(b)(10)	provisions to petition the US EPA Administrator to request alternative standards to the mercury or hydrogen chloride/chlorine gas emission standards, to the semi-volatile metals emission standards, or to the low volatile metals emissions standards
63.1206(b)(11)	calculate the hazardous waste residence time and include the calculation in the performance test plan and the operating record, and the DOC and the NOC
63.1206(b)(12)	a minimum of three runs of a performance test, to document compliance with the emission standards - compliance based on the arithmetic average of the emission results of each run, except DRE compliance shown for each run of the comprehensive performance test individually

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

- (2) The permittee shall comply with the applicable operational restrictions required under 40 CFR 63 Subpart EEE, including the following sections for operating requirements:

63.1206(c)(1)(i)	operate only under the operating requirements specified in the DOC or the NOC, except during performance tests; and startup, shutdown, and malfunction; and when hazardous waste is not in the combustion chamber
63.1206(c)(1)(ii), (iii)	The DOC and the NOC must contain operating requirements including, but not limited to, the operating requirements in 40 CFR 63.1206 and 40 CFR 63.1209 - failure to comply with the operating requirements is failure to ensure compliance with the emission standards
63.1206(c)(1)(iv),(v)	See Section C.5.c(3) of this permit.
63.1206(c)(2)(i), (iii), (iv)	develop a Start-up, Shut-down, and Malfunction Plan (SSMP) requirements of 40 CFR 63.6(e)(3) (including a projected oxygen correction factor based on normal operations to use during periods of startup and shutdown) - record the plan in the 'operating record'
63.1206(c)(2)(v)(A)(1)	During malfunctions, AWFCO requirements [see 40 CFR 63.1206(c)(3)] continue to apply, except for paragraphs (c)(3)(v) and (c)(3)(vi) of this section. If the malfunction itself prevents immediate automatic cutoff, must cease feeding hazardous waste as quickly as possible. [see also 63.1206(c)(3)(iv)]
63.1206(c)(2)(v)(A)(2)	although AWFCO requirements apply during malfunction, exceedance of emission standard or operating limit is not a violation if operations are in accordance with SSMP procedures
63.1206(c)(2)(v)(A)(3)	provisions for 'excessive' exceedances during malfunctions (each set of 10 exceedances of an emission standard or operating requirement while hazardous waste remains in the combustion chamber, during a 60-day block period)
63.1206(c)(2)(v)(B)(1)	if feeding hazardous waste during startup or shutdown, must include waste feed restrictions, other operating conditions in the



	SSMP.
63.1206(c)(2)(v)(B)(2), (3)	interlock the operating limits with the AWFCO system required under 40 CFR 63.1206(c)(3), except for (c)(3)(v) and (c)(3)(vi); immediately engage AWFCO if exceed the operating limits, except as in (c)(3)(viii)
63.1206(c)(2)(v)(B)(4)	although AWFCO requirements apply during startup and shutdown, exceedance of emission standard or operating limit is not a violation if operations are in accordance with SSMP procedures
63.1206(c)(3)(i), (ii), (iii)	Automatic Waste Feed Cut-off (AWFCO) system for the hazardous waste feed (general requirements)
63.1206(c)(3)(v), (vi)	requirements for AWFCO system: corrective measures, 'excessive' exceedances
63.1206(c)(3)(vii)	requirements for AWFCO system testing, at least weekly, (and provision for conduct AWFCO testing at least monthly) - must record in the operating record AWFCO test procedures and results
63.1206(c)(5)(i)	Combustion system leaks - Keeping the combustion zone sealed, or Maintaining (vacuum), or other provisions as may be approved by the Administrator
63.1206(c)(5)(ii)	Combustion system leaks - requirements for specification of control method(s) in the performance test workplan and Notification of Compliance
63.1206(c)(6)	requirements for programs for operator training and certification
63.1206(c)(7)	requirements for Operation and Maintenance plan - describes in detail procedures for operation, inspection, maintenance, and corrective measures for all components of the combustor, including associated pollution control equipment - operation consistent with good air pollution control practices for minimizing emissions at least to the levels achieved during the comprehensive performance test - record the plan in the 'operating record'

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

- (3) The following table lists the permittee's Operating Parameter Limits under 40 CFR 63.1206(c)(1)(iv) and (v):

	Kiln 1	Kiln 2
Minimum Combustion Zone Temperature (degrees C)	1207	1085
Maximum (clinker) Production Rate (metric ton/hr)	29.2	30.6
Maximum Total Hazardous Waste Fuel Feedrate (metric ton/hr)	7.65	7.71
Maximum Inlet Temperature to the Baghouse (degrees C)	202.9	203.0
Maximum Carbon Monoxide at Mid-kiln (ppmv, at 7% oxygen)	100	100



Maximum Kiln Combustion Chamber Pressure (kPa)	<0	<0
Maximum Total Mercury Feedrate (µg/dscm, based on MTEC)	120	120
Maximum Mercury in Hazardous Waste Fuel Feed (ppm)	3.0	3.0
Maximum SVM Thermal Concentration Feedrate (lb/mmBtu, based on emission limit of 0.00076 lb/mmBtu)	0.546	0.576
Maximum LVM Thermal Concentration Feedrate (lb/mmBtu, based on emission limit of 0.000021 lb/mmBtu)	0.202	0.330
Maximum Total SVM Feedrate (kg/hr)	43.9	44.7
Maximum Total LVM Feedrate from Hazardous Waste Fuel (kg/hr)	19.0	28.4
Maximum Total Chlorine /Chloride Feedrate (kg/hr)	198	239
Minimum Sorbent Feedrate (lb/hr)	56	55
Maximum Opacity (percent)	20	20

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

- (4) The permittee shall continuously operate the SNCR technology during all times of kiln operation, except during periods of SNCR technology malfunction.
[Consent Decree, Paragraph 28]
- (5) The permittee shall continuously operate the DAA technology during all times of kiln operation, except during periods of DAA technology malfunction.
[Consent Decree, Paragraph 66]

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall comply with the applicable monitoring / record keeping requirements required under 40 CFR 63 Subpart EEE, including the following sections:

63.1209(a)(1)(ii)(B)	must use a COMS to demonstrate and monitor compliance with the opacity standard at each point where emissions are vented
63.1209(a)(1)(ii)(C)	must maintain and operate COMS in accordance with the requirements of 40 CFR 63.8(c) except for the requirements under 63.8(c)(3). The requirements of 63.1211(c) shall be complied with instead of 40 CFR 63.8(c)(3)
63.1209(a)(1)(ii)(D)	Compliance for opacity is based on a six-minute block average.
63.1209(a)(2)	must install, calibrate, maintain, and continuously operate the COMS in compliance with the quality assurance procedures provided in the Subpart EEE appendix and Performance Specifications 1 (opacity) in Appendix B, of 40 CFR 60
63.1209(f)	The provisions of 40 CFR 63.8(c) apply - 63.8(c)(4)(i), (c)(5), and (c)(7)(i)(C) pertaining to COMS apply.



63.1209(a)(1)(i)	use a carbon monoxide CEMS to demonstrate and monitor compliance with the carbon monoxide (and hydrocarbon) standard - also use an oxygen CEMS to continuously correct the carbon monoxide level to 7 percent oxygen
63.1209(a)(2)	install, calibrate, maintain, and continuously operate CEMS in compliance with the quality assurance procedures in the appendix to 40 CFR 63 Subpart EEE, and PS 4B (carbon monoxide and oxygen) in 40 CFR 60 Appendix B
63.1209(a)(3)	requirements /provisions for CO readings exceeding the span value of the monitor
63.1209(a)(5)	may petition the Director to use CEMS for particulate matter, mercury, semi-volatile metals, low volatile metals, and hydrogen chloride and chlorine gas under 40 CFR 63.8(f)
63.1209(a)(6)(ii), (iii)	the first one-minute value is added to the previous 59 values (regardless of time in between which may be without readings) to calculate the hourly rolling average - must continue monitoring CO when hazardous waste feed is cut off - must not resume feeding hazardous waste if the emission levels exceed the standard
63.1209(a)(7)	Hydrocarbon emissions during the CPT must not exceed the HC standard. If HC demonstration and DRE tests not concurrent, must establish separate operating parameter limits.
63.1209(b)(1)	must use continuous monitoring systems [CMS] (e.g., thermocouples, pressure transducers, flow meters) to document compliance with applicable operating parameter limits
63.1209(b)(2)	comply with CMS manufacturer's written specifications or recommendations for installation, operation, and calibration - specifications for thermocouples, optical pyrometers
63.1209(b)(3), (4)	CMS must sample without interruption, evaluate response every 15 seconds, and compute and record the average values at least every 60 seconds - span must not be exceeded (span limits must be interlocked to AWFCO)
63.1209(b)(5)	the first one-minute value is added to the previous 59 values (regardless of time in between which may be without readings) to calculate the hourly rolling average - must continue CMS monitoring when hazardous waste feed is cut off - must not resume feeding hazardous waste if the emission levels exceed the standard
63.1209(c)(1)	must analyze all feedstreams
63.1209(c)(2)	Feedstream analysis plan requirements: (in the operating record) at a minimum: parameters to be analyzed; provision for methods other than sampling /analysis; how the analysis will be used to document compliance; the test methods; the sampling methods (Appendix IX, 40 CFR 266 or equivalent); and frequency for review or repeat of the initial analysis
63.1209(c)(3)	submit the feedstream analysis plan to the Director for review and approval, if requested
63.1209(c)(4)	determine and record the value of the parameter, and mass or volume flowrate of each feedstream by a CMS - if by volume,



	determine and record the density (unless concentration is in units of weight per unit volume) - calculate and record the mass (feedrate) per unit time
63.1209(c)(5)	provisions for not monitoring levels of metals or chlorine in natural gas, process air, and feedstreams from vapor recovery systems
63.1209(d)	requirements of 40 CFR 63.8(d) (Quality control program) and (e) (Performance evaluation of CMS) apply, except conduct performance evaluations under the frequency and procedures applicable to performance tests as provided by 40 CFR 63.1207 - comply with the quality assurance procedures for CEMS prescribed in the appendix to Subpart EEE
63.1209(e)	Conduct of monitoring: The provisions of 40 CFR 63.8(b) apply.
63.1209(f)	Operation and maintenance of CMS: The provisions of §63.8(c) apply, except as specified in 63.1209(f)(1), (2), and (3).
63.1209(g)	Alternative monitoring requirements other than CEMS - provisions for requesting alternatives to operating parameter monitoring requirements by submitting an application to the Director for approval
63.1209(h)	Reduction of monitoring data: The provisions of 40 CFR 63.8(g) apply.
63.1209(i)	When an operating parameter is applicable to multiple standards: If the performance tests for such standards are not performed simultaneously, the most stringent limit for a parameter derived from independent performance tests applies.
63.1209(j)	operating limits (usually based on the CPT, or manufacturer specifications) for: Minimum combustion chamber temperature; Maximum flue gas flowrate or production rate; Maximum hazardous waste feedrate (pumpable and nonpumpable) -all hourly rolling average. Specify operating parameters and limits to ensure good operation of each hazardous waste firing system.
63.1209(k)	dioxin /furan operating parameter limits (based on the CPT or manufacturer specifications): Maximum gas temperature at baghouse inlet (hourly rolling average); Minimum combustion chamber temperature, Maximum flue gas flowrate or production rate, Maximum hazardous waste feedrate [all as in 63.1209(k)]
63.1209(l)(1)(iii)(A), (B)	mercury operating parameter limits (based on the CPT or manufacturer specifications): Feedrate of mercury (twelve-hour rolling average); record in the operating record; establish as AWFCO parameter
63.1209(l)(1)(iii)(C)	Except as provided in (l)(1)(iii)(D), for MTEC: must comply with the MTEC operating requirement on a twelve-hour rolling average; monitor and record according to 40 CFR 63.1209(c); Monitor with a CMS and record in the operating record the gas flowrate (either directly or by surrogate); continuously calculate and record in the operating record the MTEC; initiate AWFCO when exceeded
63.1209(l)(1)(iii)(D)	alternate provision: identify in the NOC a minimum gas flowrate, and maximum mercury feedrate, from all hazardous waste feedstreams that ensures the calculated MTEC is below the



	operating requirement; and initiate AWFCO if exceeded
63.1209(l)(1)(v)	provision to extrapolate to higher allowable mercury feedrate limits and emission rates (during the CPT) - extrapolation methodology will be reviewed and approved, as warranted, by the Administrator
63.1209(n)(1), (2)(i), (ii), (iii)	SVM and LVM operating parameter limits (based on the CPT or manufacturer specifications): Maximum gas temperature at baghouse inlet (hourly rolling average);) Maximum SVM and LVM feedrate; hazardous waste 'thermal' concentration standard (rolling 12-hour average)
63.1209(n)(3)	note: all 'feedstreams' at this facility are 'pumpable' feedstreams
63.1209(n)(4)	Maximum total chlorine and chloride feedrate: must establish a 12-hour rolling average limit for total chlorine /chloride in all feedstreams as the average of the test run averages.
63.1209(n)(5)	Maximum flue gas flowrate or production rate: must establish a hourly rolling average limit on maximum flue gas flowrate, maximum production rate, or another parameter as documented in the site-specific test plan as a surrogate for gas residence time
63.1209(o)(1)	Hydrogen chloride and chlorine gas operating parameter limits (based on the CPT or manufacturer specifications): feedrate of total chlorine /chloride; must establish a 12-hour rolling average limit for the total feedrate of chlorine (organic and inorganic) in all feedstreams as the average of the test run averages.
63.1209(o)(2)	Maximum flue gas flowrate or production rate: must establish a hourly rolling average limit on maximum flue gas flowrate, maximum production rate, or another parameter as documented in the site-specific test plan as a surrogate for gas residence time
63.1209(p)	Maximum combustion chamber pressure: if complying with combustion system leaks under 63.1206(c)(5) by maintaining the maximum combustion chamber zone pressure lower than ambient pressure, must perform instantaneous monitoring of pressure and the AWFCO system must be engaged when negative pressure is not adequately maintained.
63.1209(q)	provisions for operating under different modes of operation [informational note: none at this time of the processing of this permit]
63.1209(r)	provisions for more restrictive compliance data averaging periods
63.1211(b)	summary table: records to be retained in the Operating Record

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

- (2) The permittee shall operate and maintain equipment to continuously monitor and record NO_x emissions from this emissions unit in units of the applicable standard(s). The continuous monitoring and recording equipment shall comply with the requirements specified in 40 CFR Part 60.

The permittee shall maintain records of all data obtained by the continuous NO_x monitoring system including, but not limited to:

- a. emissions of NO_x in parts per million for each cycle time of the analyzer, with no resolution less than one data point per minute required;



- b. emissions of NO_x in units of the applicable standard(s) in the appropriate averaging period;
- c. results of quarterly cylinder gas audits;
- d. results of daily zero/span calibration checks and the magnitude of manual calibration adjustments;
- e. results of required relative accuracy test audit(s), including results in units of the applicable standard(s);
- f. hours of operation of the emissions unit, continuous NO_x monitoring system, and control equipment;
- g. the date, time, and hours of operation of the emissions unit without the control equipment and/or the continuous NO_x monitoring system;
- h. the date, time, and hours of operation of the emissions unit during any malfunction of the control equipment and/or the continuous NO_x monitoring system; as well as,
- i. the reason (if known) and the corrective actions taken (if any) for each such event in d)(2)g and d)(2)h.

All valid data points generated and recorded by the continuous emission monitoring and data acquisition and handling system shall be used in the calculation of the pollutant concentration and/or emission rate over the appropriate averaging period.

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

- (3) The permittee shall operate and maintain equipment to continuously monitor and record SO₂ emissions from this emissions unit in units of the applicable standard(s). The continuous monitoring and recording equipment shall comply with the requirements specified in 40 CFR Part 60.

The permittee shall maintain records of all data obtained by the continuous SO₂ monitoring system including, but not limited to:

- a. emissions of SO₂ in parts per million for each cycle time of the analyzer, with no resolution less than one data point per minute required;
- b. emissions of SO₂ in units of the applicable standard(s) in the appropriate averaging period;
- c. results of quarterly cylinder gas audits;
- d. results of daily zero/span calibration checks and the magnitude of manual calibration adjustments;
- e. results of required relative accuracy test audit(s), including results in units of the applicable standard(s);



- f. hours of operation of the emissions unit, continuous SO₂ monitoring system, and control equipment;
- g. the date, time, and hours of operation of the emissions unit without the control equipment and/or the continuous SO₂ monitoring system;
- h. the date, time, and hours of operation of the emissions unit during any malfunction of the control equipment and/or the continuous SO₂ monitoring system; as well as,
- i. the reason (if known) and the corrective actions taken (if any) for each such event in d)(3)g and d)(3)h.

All valid data points generated and recorded by the continuous emission monitoring and data acquisition and handling system shall be used in the calculation of the pollutant concentration and/or emission rate over the appropriate averaging period.

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

- (4) The permittee shall maintain on site, the document(s) of certification received from the U.S. EPA or the Ohio EPA's Central Office documenting that the continuous NO_x monitoring system has been certified to meet the requirements of 40 CFR Part 60, Appendix B, Performance Specifications 2 and 6. The letter(s)/document(s) of certification shall be made available to the Director (the appropriate Ohio EPA District Office or local air agency) upon request.
[OAC rule 3745-77-07(C)(1)]
- (5) The permittee shall maintain on site, the document(s) of certification received from the U.S. EPA or the Ohio EPA's Central Office documenting that the continuous SO₂ monitoring system has been certified to meet the requirements of 40 CFR Part 60, Appendix B, Performance Specifications 2 and 6. The letter(s)/document(s) of certification shall be made available to the Director (the appropriate Ohio EPA District Office or local air agency) upon request.
[OAC rule 3745-77-07(C)(1)]
- (6) Except during CEMS breakdowns, repairs, calibration checks, and zero span adjustments, the CEMS shall be operated at all times during kiln operation. Each such CEMS shall be used at each kiln to demonstrate compliance with the NO_x and SO₂ emission limits established pursuant to the Consent Decree.
[Consent Decree, Paragraphs 46 and 79]
- (7) Each NO_x and SO₂ CEMS required pursuant to Paragraph 45 shall monitor and record the applicable NO_x /SO₂ emission rate from each kiln stack in units of lbs of NO_x /SO₂ per ton of clinker produced at such kiln and shall be installed, certified, calibrated, maintained, and operated in accordance with the applicable requirements of 40 CFR Part 60.
[Consent Decree, Paragraphs 47 and 80]
- (8) The permittee shall collect and record the following information each 'operating day' for each emissions unit:



- a. total pounds of NO_x /SO₂ emitted for the emissions unit
- b. the total tons of clinker produced by the emissions unit
- c. (beginning after 30 days of operation under this permit) the sum of the pounds of NO_x /SO₂ emitted for the day, and the previous twenty-nine (29) operating days
- d. (beginning after 30 days of operation under this permit) the sum of the tons of clinker produced for the day, and the previous twenty-nine (29) operating days
- e. (beginning after 30 days of operation under this permit) divide the total number of pounds of NO_x /SO₂ emitted during the thirty (30) operating days by the total tons of clinker produced during the same 30 operating days [i.e. d)(9)c / d)(9)d]

For any day which is not an 'operating day' for an emissions unit, a record stating such shall be made for that day for the unit.
 [OAC rule 3745-77-07(C)(1)]

- (9) The monitoring and recordkeeping requirements in d)(3), d)(5), d)(6), d)(7), and d)(8), are sufficient to show compliance with the SO₂ limitation established under OAC 3745-18-69.
 [OAC rule 3745-77-07(C)(1)]

e) Reporting Requirements

- (1) The permittee shall comply with the applicable reporting /notification requirements required under 40 CFR 63 Subpart EEE, including the following sections:

63.1207(j)	Notification of Compliance (NOC) requirements: CPT; Confirmatory test; provision for time extension, early compliance - General Provisions 40 CFR 63.7(g), 63.9(h) [otherwise] apply, and also 63.1210(d)
63.1207(k)(1)	If fail to postmark a NOC by the specified date, must cease hazardous waste burning immediately.
63.1207(k)(2)	Prior to submitting a revised NOC [as per 1207(k)(3)], may burn hazardous waste only for the purpose of pretesting or CPT and only for a maximum of 720 hours (renewable at the discretion of the Director).
63.1207(k)(3)	must submit to the Director a NOC subsequent to a new comprehensive performance test before resuming hazardous waste burning
63.1210(a)(1)	summary table: notifications to the Director
63.1210(a)(2)	summary table: notifications to the Director, alternative requirements (notification to Director, or US EPA Administrator, as applicable)
63.1210(d)(1)	Notification of compliance: NOC status requirements of 40 CFR 63.9(h) apply, except that: is a NOC, rather than 'compliance status'; is required for initial and subsequent CPTs and Confirmatory test; and 90th day postmark rather than 60th day as required by 40 CFR 63.9(h)(2)(ii).
63.1210(d)(2)	Upon postmark of the NOC, the operating parameter limits identified



	in the NOC, as applicable, shall be complied with, the limits identified in the DOC or a previous NOC Compliance are no longer applicable.
63.1210(d)(3)	The NOC requirements of 40 CFR 63.1207(j) also apply.
63.1211(a)	summary table: reports to the Director

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

- (2) The permittee shall comply with the following quarterly reporting requirements for the emissions unit and its continuous NO_x monitoring system:
- a. Pursuant to the monitoring, record keeping, and reporting requirements for continuous monitoring systems contained in 40 CFR 60.7 and 60.13(h) and the requirements established in this permit, 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 all instances of NO_x emissions in excess of any applicable limit specified in this permit, 40 CFR Part 60, OAC Chapters 3745-14, 3745-18, and 3745-23, and any other applicable rules or regulations. The report shall document the date, commencement and completion times, duration, and magnitude of each exceedance, as well as the reason (if known) and the corrective actions taken (if any) for each exceedance. Excess emissions shall be reported in units of the applicable standard(s).
 - b. These quarterly reports shall be submitted by January 30, April 30, July 30, and October 30 of each year and shall include the following:
 - i. the facility name and address;
 - ii. the manufacturer and model number of the continuous NO_x and other associated monitors;
 - iii. a description of any change in the equipment that comprises the continuous emission monitoring system (CEMS), including any change to the hardware, changes to the software that may affect CEMS readings, and/or changes in the location of the CEMS sample probe;
 - iv. the excess emissions report (EER)*, i.e., a summary of any exceedances during the calendar quarter, as specified above;
 - v. the total NO_x emissions for the calendar quarter (tons);
 - vi. the total operating time (hours) of the emissions unit;
 - vii. the total operating time of the continuous NO_x monitoring system while the emissions unit was in operation;
 - viii. results and dates of quarterly cylinder gas audits;
 - ix. unless previously submitted, results and dates of the relative accuracy test audit(s), including results in units of the applicable standard(s), (during appropriate quarter(s));



- x. unless previously submitted, the results of any relative accuracy test audit showing the continuous NO_x monitors out-of-control and the compliant results following any corrective actions;
- xi. the date, time, and duration of any/each malfunction** of the continuous NO_x monitoring systems, emissions unit, and/or control equipment;
- xii. the date, time, and duration of any downtime** of the continuous NO_x monitoring systems and/or control equipment while the emissions unit was in operation; and
- xiii. the reason (if known) and the corrective actions taken (if any) for each event in e)(2)b.xi and e)(2)b.xii.

Each report shall address the operations conducted and data obtained during the previous calendar quarter. According to Paragraph 48 of the Consent Decree, the permittee is directed to use data substitution procedures from 40 CFR 75 for showing compliance with the rolling 30-day limitation(s) in this permit.

* where no excess emissions have occurred or the continuous monitoring system(s) has/have not been inoperative, repaired, or adjusted during the calendar quarter, such information shall be documented in the EER quarterly report

** each downtime and malfunction event shall be reported regardless of whether there is an exceedance of any applicable limit
[OAC rule 3745-77-07(C)(1)]

- (3) The permittee shall comply with the following quarterly reporting requirements for the emissions unit and its continuous SO₂ monitoring system:
 - a. Pursuant to the monitoring, record keeping, and reporting requirements for continuous monitoring systems contained in 40 CFR 60.7 and 60.13(h) and the requirements established in this permit, 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 all instances of SO₂ emissions in excess of any applicable limit specified in this permit, 40 CFR Part 60, OAC Chapters 3745-14, 3745-18, and 3745-23, and any other applicable rules or regulations. The report shall document the date, commencement and completion times, duration, and magnitude of each exceedance, as well as the reason (if known) and the corrective actions taken (if any) for each exceedance. Excess emissions shall be reported in units of the applicable standard(s).
 - b. These quarterly reports shall be submitted by January 30, April 30, July 30, and October 30 of each year and shall include the following:
 - i. the facility name and address;
 - ii. the manufacturer and model number of the continuous SO₂ and other associated monitors;



- iii. a description of any change in the equipment that comprises the continuous emission monitoring system (CEMS), including any change to the hardware, changes to the software that may affect CEMS readings, and/or changes in the location of the CEMS sample probe;
- iv. the excess emissions report (EER)*, i.e., a summary of any exceedances during the calendar quarter, as specified above;
- v. the total SO₂ emissions for the calendar quarter (tons);
- vi. the total operating time (hours) of the emissions unit;
- vii. the total operating time of the continuous SO₂ monitoring system while the emissions unit was in operation;
- viii. results and dates of quarterly cylinder gas audits;
- ix. unless previously submitted, results and dates of the relative accuracy test audit(s), including results in units of the applicable standard(s), (during appropriate quarter(s));
- x. unless previously submitted, the results of any relative accuracy test audit showing the continuous SO₂ monitors out-of-control and the compliant results following any corrective actions;
- xi. the date, time, and duration of any/each malfunction** of the continuous SO₂ monitoring systems, emissions unit, and/or control equipment;
- xii. the date, time, and duration of any downtime** of the continuous SO₂ monitoring systems and/or control equipment while the emissions unit was in operation; and
- xiii. the reason (if known) and the corrective actions taken (if any) for each event in e)(3)b.xi and e)(3)b.xii.

Each report shall address the operations conducted and data obtained during the previous calendar quarter. According to Paragraph 81 of the Consent Decree, the permittee is directed to use data substitution procedures from 40 CFR 75 for showing compliance with the rolling 30-day limitation(s) in this permit.

* where no excess emissions have occurred or the continuous monitoring system(s) has/have not been inoperative, repaired, or adjusted during the calendar quarter, such information shall be documented in the EER quarterly report

** each downtime and malfunction event shall be reported regardless of whether there is an exceedance of any applicable limit
[OAC rule 3745-77-07(C)(1)]



f) Testing Requirements

(1) Compliance with the Emissions Limitations and/or Control Requirements specified in section b) of these terms and conditions shall be determined in accordance with the following methods:

a. Emission Limitation:

43.0 pounds of sulfur dioxide per ton of cement produced

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with the emission limitation in accordance with 40 CFR Part 60, Appendix A, Methods 1-4 and 6. [OAC rule 3745-77-07(C)(1)]

b. Emission Limitation:

75 lbs/hr of PE

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with the emission limitation in accordance with 40 CFR Part 60, Appendix A, Methods 1 - 5. [OAC rule 3745-77-07(C)(1)]

c. Emission Limitations:

P014: 6.01 lbs NO_x per ton of clinker, as a 30-day rolling average

P015: 5.46 lbs NO_x per ton of clinker, as a 30-day rolling average

Applicable Compliance Method:

Compliance with the 30-day rolling average emission limit shall be determined in accordance with the following procedure, beginning on the 30th day after the issuance of this permit: first, sum the total pounds of NO_x emitted from the kiln during an operating day (i.e. any day on which kiln operation has occurred) and the previous twenty-nine (29) operating days as measured by the applicable NO_x CEMS, as applicable; second, sum the total tons of clinker produced by the kiln during the same operating day and previous 29 operating days; and third, divide the total number of pounds of NO_x emitted from the kiln or kilns during the thirty (30) operating days by the total tons of clinker produced by such kiln during the same 30 operating days. A new compliance determination of the 30-day rolling average emission limit shall be calculated for each new operating day. In calculating each 30-day rolling average emission rate, the total pounds of NO_x emitted from a kiln during a specified period (operating day or 30-day period) shall include all emissions of that pollutant from the subject kiln that occur during the specified period, including emissions during each start-up, shut-down, or malfunction, except to the extent a malfunction qualifies as a 'Force Majeure' event under Section XIV under the Consent Decree and the permittee has complied with the requirements of that section.

[Consent Decree, Paragraph 7.a]

d. Emission Limitations:

P014: 5.52 lbs SO₂ per ton of clinker, as a 30-day rolling average

P015: 6.80 lbs SO₂ per ton of clinker, as a 30-day rolling average



Applicable Compliance Method:

Compliance with the 30-day rolling average emission limit shall be determined in accordance with the following procedure, beginning on the 30th day after the issuance of this permit: first, sum the total pounds of SO₂ emitted from the kiln during an operating day (i.e. any day on which kiln operation has occurred) and the previous twenty-nine (29) operating days as measured by the applicable SO₂ CEMS, as applicable; second, sum the total tons of clinker produced by the kiln during the same operating day and previous 29 operating days; and third, divide the total number of pounds of SO₂ emitted from the kiln or kilns during the thirty (30) operating days by the total tons of clinker produced by such kiln during the same 30 operating days. A new compliance determination of the 30-day rolling average emission limit shall be calculated for each new operating day. In calculating each 30-day rolling average emission rate, the total pounds of SO₂ emitted from a kiln during a specified period (operating day or 30-day period) shall include all emissions of that pollutant from the subject kiln that occur during the specified period, including emissions during each start-up, shut-down, or malfunction, except to the extent a malfunction qualifies as a 'Force Majeure' event under Section XIV under the Consent Decree and the permittee has complied with the requirements of that section.

[Consent Decree, Paragraph 7.a]

- (2) The permittee shall comply with the applicable testing / compliance requirements as required under 40 CFR 63 Subpart EEE, including the following sections:

63.1207(a)	General Provisions 40 CFR 63.7 (otherwise) apply
63.1207(b)(1)	a Comprehensive Performance Test (CPT) is required to demonstrate compliance with the emission standards, establish limits for the operating parameters provided by 63.1209, and demonstrate compliance with the performance specifications for continuous monitoring systems
63.1207(b)(2)	a Confirmatory performance test is required to demonstrate compliance with the dioxin/furan emission standard for operation under 'normal' conditions; and conduct a performance evaluation of (associated) continuous monitoring systems [under 63.1209(k)]
63.1207(d)(1), (2)	[unless otherwise extended under 63.1207(i)] the CPT must commence no later than 61 months after the date of commencing the previous CPT - the Confirmatory test must commence no later than 31 months after the date of commencing the previous CPT
63.1207(d)(3)	must complete performance testing within 60 days after the date of commencement, unless the Director approves a time extension
63.1207(e)(1), (2)	notification of performance test and CMS performance evaluation, and approval of test plan and CMS performance evaluation plan - General Provisions 40 CFR 63.7(b) and (c) and 63.8(e) [otherwise] apply - further requirements /details for notification, public review, Director approval, etc.
63.1207(e)(3)	provisions for petitioning for time extension "wavier" if Director fails to approve or deny test plans
63.1207(f)	content of performance test plan - General Provisions 40 CFR 63.7(c)(2)(i)-(iii) and (v) [otherwise] apply



63.1207(f)(1)	requirements - content of CPT plan
63.1207(f)(2)	requirements - content of Confirmatory test plan
63.1207(g)	operating conditions during testing General Provisions 40 CFR 63.7(e) [otherwise] apply. Conducting performance testing under operating conditions representative of the extreme range of normal conditions is consistent with the requirement of 63.7(e)(1) to conduct performance testing under representative operating conditions.
63.1207(g)(1)	CPT - testing operational requirements: operate the combustor under normal conditions (or conditions that will result in higher than normal emissions); chlorine feedrate; cleaning cycle of the particulate matter control device; operational modes provision; steady-state conditions
63.1207(g)(1)(ii)(B)	steady-state conditions requirements, if recycling collected particulate matter (i.e., cement kiln dust) into the kiln
63.1207(g)(2)	Confirmatory test - testing operational requirements, under normal operating conditions for the following parameters: carbon monoxide; operating limits (from 63.1209) for dioxin/furan (must be held within a certain range); chlorine feedrate (provisions for alternatives approved by the Director)
63.1207(h)	Current operating parameter limits established under 63.1209 are waived during subsequent comprehensive performance testing, during pretesting (not to exceed 720 hours, renewable at the discretion of the Director)
63.1207(i)	provisions for time extension for subsequent performance tests - up to a one-year time extension, for consolidation with performance testing with other state or federally required emission testing, or for other reasons deemed acceptable by the Director
63.1207(l)(1)	Failure of CPT: you must cease burning hazardous waste (determination within 90 days); prior to a revised NOC, may burn hazardous waste only for the purpose of pretesting or CPT, (maximum of 720 hours, renewable by the Director), must conduct a CPT under revised operating conditions; must submit to the Director a NOC subsequently
63.1207(l)(2)	Failure of Confirmatory test: must cease burning hazardous waste (determination within 90 days); submit a test plan for CPT to identify revised limits for dioxin/furan operating parameters; submit a NOC for the dioxin/furan standard (with revised parameters). Until the new NOC, must not burn hazardous waste except for pretesting or Confirmatory test (maximum of 720 hours, renewable by the Director)
63.1207(l)(3)	may petition the Director to obtain written approval to burn hazardous waste in the interim prior to submitting a NOC for purposes other than testing or pretesting
63.1207(m)	provisions for waiver of performance test - Emission standards based on exhaust gas flow rate, Emission standards based on hazardous waste thermal concentration
63.1208(b)(1)	testing for dioxins /furans: Method 0023A, Sampling Method for



	Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans emissions from Stationary Sources, EPA Publication SW-846; or 40 CFR 60, Appendix A, Method 23, with approval by US EPA Administrator under specific provisions.
63.1208(b)(2), (3), (4)	testing for mercury, and for metals (SVM and LVM): 40 CFR 60, Appendix A, Method 29
63.1208(b)(5)(i)	testing for hydrogen chloride /chlorine: 40 CFR 60, Appendix A, Method 26/26A; or 40 CFR 63, Appendix A, Method 320 or 321; or specific provisions for Method 26/26A and ASTM D 6735-01
63.1208(b)(6)	testing for particulate matter: 40 CFR 60, Appendix A, Method 5 or 5I
63.1208(b)(7)	may use applicable test methods in EPA Publication SW-846, as necessary to demonstrate compliance with requirements, except as otherwise specified in 40 CFR 63.1208(b)(2) through (b)(6).
63.1208(b)(8)	may use any reliable analytical method to determine feedstream concentrations of metals, chlorine, and other constituents - permittee must ensure that the sampling and analysis procedures are unbiased, precise, and that the results are representative of the feedstream.

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

- (3) Ongoing compliance with the NO_x emission limitations contained in this permit, 40 CFR Part 60 and any other applicable standard(s) shall be demonstrated through the data collected as required in Sections d) and f)(1)(d) of this permit; and through demonstration of compliance with the quality assurance/quality control plan, which shall meet the testing and recertification requirements of 40 CFR Part 60.

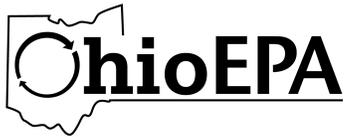
[OAC rule 3745-77-07(C)(1)]

- (4) Ongoing compliance with the SO₂ emission limitations contained in this permit, 40 CFR Part 60 and any other applicable standard(s) shall be demonstrated through the data collected as required in Sections d) and f)(1)(e) of this permit; and through demonstration of compliance with the quality assurance/quality control plan, which shall meet the testing and recertification requirements of 40 CFR Part 60.

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

g) Miscellaneous Requirements

- (1) None.



6. Emissions Unit Group - Group 2: F001, F002

EU ID	Operations, Property and/or Equipment Description
F001	Quarry extraction-- drilling, blasting, loading materials to trucks
F002	Storage Piles and Clinker & Gypsum Handling-- storage piles in quarry and cement plant, and handling of clinker and gypsum, with baghouses on drag lines)

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

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-17-07(B)(1)	none [See b)(2)a.]
b.	OAC rule 3745-17-08(B)	none [See b)(2)b.]

(2) Additional Terms and Conditions

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

b. The facility is not located within an "Appendix A" area as identified in OAC rule 3745-17-08. Therefore, pursuant to OAC rule 3745-17-08(A)(1), this emissions unit is exempt from the requirements of OAC rule 3745-17-08(B).

c) Operational Restrictions

(1) None.

d) Monitoring and/or Recordkeeping Requirements

(1) None.

e) Reporting Requirements

(1) None.

f) Testing Requirements

(1) None.



Final Title V Permit
Lafarge North America - Paulding Plant
Permit Number: P0116498
Facility ID: 0363000002
Effective Date: 3/5/2015

g) Miscellaneous Requirements

(1) None.