Ohio Environmental Protection Agency
John R. Kasich, Governor
Mary Taylor, Lt. Governor
Scott J. Nally, Director

4/17/2012

Certified Mail

Facility ID: 0243030257
Permit Number: P0108404
County: Lake

Mr. Mark Reider
Carmeuse Lime, Inc - Grand River Operations
3 Clear Springs Road
Annville, PA 17003

RE: FINAL AIR POLLUTION CONTROL TITLE V PERMIT
Permit Type: Minor Permit Modification

Dear Permit Holder:

Enclosed is the Title V permit that allows you to operate the facility in the manner indicated in the permit. Because this permit may contain several conditions and restrictions, we urge you to read it carefully. Please complete a survey at www.epa.ohio.gov/dapc/permitsurvey.aspx and give us feedback on your permitting experience. We value your opinion.

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
309 South Fourth Street, Room 222
Columbus, OH 43215

The Ohio EPA is encouraging companies to investigate pollution prevention and energy conservation. Not only will this reduce pollution and energy consumption, but it can also save you money. If you would like to learn ways you can save money while protecting the environment, please contact our Office of Compliance Assistance and Pollution Prevention at (614) 644-3469. If you have any questions regarding this permit, please contact the Ohio EPA DAPC, Northeast District Office. This permit can be accessed electronically on the Division of Air Pollution Control (DAPC) Web page, www.epa.ohio.gov/dapc by clicking the "Issued Air Pollution Control Permits" link.

Sincerely,

Michael W. Ahern

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

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

Ohio | Environmental Protection Agency

FINAL

Division of Air Pollution Control
Title V Permit
for
Carmeuse Lime, Inc - Grand River Operations

Facility ID:	0243030257
Permit Number:	P0108404
Permit Type:	Minor Permit Modification
Issued:	4/17/2012
Effective:	4/17/2012
Expiration:	10/20/2015

Ohio Environmental Protection Agency

Division of Air Pollution Control
Title V Permit
for
Carmeuse Lime, Inc - Grand River Operations

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Authorization

Facility ID: 0243030257
Facility Description: Lime manufacturing plant
Application Number(s): A0042236
Permit Number: P0108404
Permit Description: Title V Minor Permit Modification to include Vexor (or equivalent) engineered fuel in the lime manufacturing kilns
Permit Type: Minor Permit Modification
Issue Date: 4/17/2012
Effective Date: 4/17/2012
Expiration Date: 10/20/2015
Superseded Permit Number: P0084911

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

Carmeuse Lime, Inc - Grand River Operations
15 Williams Street
P.O. Box 299
Grand River, OH 44045

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

Ohio EPA DAPC, Northeast District Office
2110 East Aurora Road
Twinsburg, OH 44087
(330)425-9171

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, Northeast District Office. If a renewal permit is not issued prior to the expiration date, the permittee may continue to operate pursuant to OAC rule 3745-77-08(E) and in accordance with the terms of this permit beyond the expiration date, if a timely renewal application is submitted. A renewal application will be considered timely if it is submitted no earlier than 18 months (540 days) and no later than 6 months (180 days) prior to the expiration date.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

Scott J. Nally
Director

A. Standard Terms and Conditions

1. **Federally Enforceable Standard Terms and Conditions**

a) All Standard Terms and Conditions are federally enforceable, with the exception of those listed below which are enforceable under State law only:

(1) Standard Term and Condition A. 24., Reporting Requirements Related to Monitoring and Record Keeping Requirements of State-Only Enforceable Permit Terms and Conditions

(2) Standard Term and Condition A. 25., Records Retention Requirements for State-Only Enforceable Permit Terms and Conditions

(3) Standard Term and Condition A. 27., Scheduled Maintenance/Malfunction Reporting

(4) Standard Term and Condition A. 29., Additional Reporting Requirements When There Are No Deviations of Federally Enforceable Emission Limitations, Operational Restrictions, or Control Device Operating Parameter Limitations

(Authority for term: ORC 3704.036(A))

2. **Monitoring and Related Record Keeping and Reporting Requirements**

a) Except as may otherwise be provided in the terms and conditions for a specific emissions unit (i.e., in section C. Emissions Unit Terms and Conditions of this Title V permit), the permittee shall maintain records that include the following, where applicable, for any required monitoring under this permit:

(1) The date, place (as defined in the permit), and time of sampling or measurements.

(2) The date(s) analyses were performed.

(3) The company or entity that performed the analyses.

(4) The analytical techniques or methods used.

(5) The results of such analyses.

(6) The operating conditions existing at the time of sampling or measurement.

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

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

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

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

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

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

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

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

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

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

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

Written reports of (a) any deviations from federally enforceable emission limitations, operational restrictions, and control device operating parameter limitations, (b) the probable cause of such deviations, and (c) any corrective actions or preventive

measures taken, shall be promptly made to the appropriate Ohio EPA District Office or local air agency. Except as provided below, the written reports shall be submitted (i.e., postmarked) by January 31, April 30, July 31, and October 31 of each year; and each report shall cover the previous calendar quarter.

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

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

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

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

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

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

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

insignificant activities or emissions levels (IEU) identified in section B. Facility-Wide Terms and Conditions of this Title V permit. Annual reporting of deviations is deemed adequate to meet the deviation reporting requirements for IEUs unless otherwise specified by permit or rule.

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

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

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

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

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

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

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

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

3. **Scheduled Maintenance**

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

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

4. **Risk Management Plans**

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

a) a compliance plan for meeting the requirements of 40 C.F.R. Part 68 by the date specified in 40 C.F.R. 68.10(a) and OAC 3745-104-05(A); or

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

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

5. **Title IV Provisions**

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

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

6. **Severability Clause**

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

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

7. **General Requirements**

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

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

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

d) This permit does not convey any property rights of any sort, or any exclusive privilege.

e) The permittee shall furnish to the Director of the Ohio EPA, or an authorized representative of the Director, upon receipt of a written request and within a reasonable time, any information that may be requested to determine whether cause exists for modifying, reopening or revoking this permit or to determine compliance with this permit. Upon request, the permittee shall also furnish to the Director or an authorized representative of the Director, copies of records required to be kept by this permit. For information claimed to be confidential in the submittal to the

Director, if the Administrator of the U.S. EPA requests such information, the permittee may furnish such records directly to the Administrator along with a claim of confidentiality.

f) Except as otherwise indicated below, this Title V permit, or permit modification, is effective for five years from the original effective date specified in the permit. In the event that this facility becomes eligible for non-title V permits, this permit shall cease to be enforceable when:

(1) the permittee submits an approved facility-wide potential to emit analysis supporting a claim that the facility no longer meets the definition of a "major source" as defined in OAC rule 3745-77-01(W) based on the permanent shutdown and removal of one or more emissions units identified in this permit; orthe 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 ; ora combination of (1) and (2) above.

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

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

8. **Fees**

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

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

9. **Marketable Permit Programs**

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

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

10. **Reasonably Anticipated Operating Scenarios**

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

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

11. **Reopening for Cause**

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

a) Additional applicable requirements under the Act become applicable to one or more emissions units covered by this permit, and this permit has a remaining term of three or more years. Such a reopening shall be completed not later than eighteen (18) months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions has been extended pursuant to paragraph (E)(1) of OAC rule 3745-77-08.

b) This permit is issued to an affected source under the acid rain program and additional requirements (including excess emissions requirements) become applicable. Upon approval by the Administrator, excess emissions offset plans shall be deemed to be incorporated into the permit, and shall not require a reopening of this permit.

c) The Director of the Ohio EPA or the Administrator of the U.S. EPA determines that the federally applicable requirements in this permit are based on a material mistake, or that inaccurate statements were made in establishing the emissions standards or other terms and conditions of this permit related to such federally applicable requirements.

d) The Administrator of the U.S. EPA or the Director of the Ohio EPA determines that this permit must be revised or revoked to assure compliance with the applicable requirements.

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

12. **Federal and State Enforceability**

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

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

13. **Compliance Requirements**

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

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

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

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

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

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

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

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

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

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

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

(2) Compliance certifications shall include the following:

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

b. The permittee's current compliance status.

c. Whether compliance was continuous or intermittent.

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

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

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

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

14. **Permit Shield**

a) Compliance with the terms and conditions of this permit (including terms and conditions established for alternate operating scenarios, emissions trading, and emissions averaging, but excluding terms and conditions for which the permit shield is expressly prohibited under OAC rule 3745-77-07) shall be deemed compliance with the applicable requirements identified and addressed in this permit as of the date of permit issuance.

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

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

15. **Operational Flexibility**

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

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

16. **Emergencies**

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

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

17. **Off-Permit Changes**

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

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

b) The permittee provides contemporaneous written notice of the change to the Director and the Administrator of the U.S. EPA, except that no such notice shall be required for changes that qualify as insignificant emissions levels or activities as defined in OAC rule 3745-77-01(U). Such written notice shall describe each such change, the date of such change, any change in emissions or pollutants emitted, and any federally applicable requirement that would apply as a result of the change.

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

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

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

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

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

18. **Compliance Method Requirements**

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

(This term is provided for informational purposes only.)

19. **Insignificant Activities or Emissions Levels**

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

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

20. **Permit to Install Requirement**

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

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

21. **Air Pollution Nuisance**

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

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

22. **Permanent Shutdown of an Emissions Unit**

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

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

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

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

23. **Title VI Provisions**

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

a) Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices specified in 40 CFR 82.156.

b) Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment specified in 40 CFR 82.158.

c) Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161.

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

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

The permittee shall submit required reports in the following manner:

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

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

25. **Records Retention RequirementsUnder State Law Only**

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

26. **Inspections and Information Requests**

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

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

27. **Scheduled Maintenance/Malfunction Reporting**

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

28. **Permit Transfers**

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

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

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

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

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

a) where an emissions unit has deviation reporting requirements for a specific emission limitation, operational restriction, or control device parameter limitation that override the deviation reporting requirements specified in Standard Term and Condition A.2.c)(2); or

b) where an uncontrolled emissions unit has no monitoring, record keeping, or reporting requirements and the emissions unit's applicable emission limitations are established at the potentials to emit; or

c) where the company's responsible official has certified that an emissions unit has been permanently shut down.

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) B.3 and B.4.

2. 40 CFR Part 63, Subpart AAAAA MACT Requirements

   Emissions units (OEPA unit numbers P001, P002, and F003) contained in this permit, because of the Potential to Emit of HAP(s) from this facility, are subject to the applicable emission(s) and/or control measures, operational restrictions, monitoring and/or record keeping requirements, reporting requirements, testing requirements and the MACT General Provisions and/or other requirements specified in 40 CFR Part 63, Subpart AAAAA, in accordance with 40 CFR Parts 63.7080 through 63.7143 (including the Tables and Appendix(ices) referenced in Subpart AAAAA), which are included in the text of the final standard, promulgated on January 5, 2004 and are hereby incorporated into this permit as if fully rewritten. The complete MACT requirements may be accessed via the internet from the Electronic Code of Federal Regulations (e-CFR) website http://efcr.gpoaccess.gov (http://efcr.gpoaccess.gov/) or by contacting the appropriate Ohio EPA District Office or local air agency.

3. This facility is subject to the applicable requirements specified in OAC Chapter 3745-25. In accordance with Ohio Engineering Guide #64, the emission control action programs as specified in OAC rule 3745-25-03, shall be developed and submitted within 60 days after receiving notification from the Ohio EPA.

4. The following insignificant emissions units located at this facility are exempt from permit requirements because they are not subject to any applicable requirements (as defined in OAC rule 3745-77-01(H) or because they meet the "de minimis" criteria established in OAC rule 3745-15-05):

   F002 - Ship unloading and limestone storage piles;
   F005 - Conveying of lime from storage bins (scales, bins and chutes);
   F006 - PLD load-out system(includes Silos 4A(Deminimis)(PTI 02-6041)(7/24/91)(4B and 5A and 5B);
   F008 - Slag unload and blend;
   P007 - Hi Cal PLD silo;
   P902 - #3 PLD silo;
   F010 - Stone fines transfer;
   F011 - Stone loading;
   F012 - Coal unloading;
   F013 - Coal conveying;
   T010 - Tank #1; and
   F015 - Pugging Mill
   T011 - Diesel fuel 1000 gallon storage tank
   F016 - Coal storage pile
   P020 - Slag storage silo
   P021 - Coal storage silo
   F017 - Limestone storage piles with under pile conveyor (F003)
   P022 - PLD silo #5B
   P023 - PLD silo #4B.

   For the PLD load-out system, emission unit F006, based on a June 20, 2007 letter from Carmeuse for #4B and #5B PLD truck loadout spouts, to avoid fugitive emissions, especially those which result from

PLD product falling outside of the truck trailer, a switch shall be installed on the loadout spouts to prevent the tank valve from opening unless the spout was fully extended and mated with the trailer.

5. The following insignificant emissions units are located at this facility and are subject to the following applicable requirements:

F003 - Process Stone Handling (PSH) (PTI 02-948) (6/21/82) and 40 CFR Part 63, Subpart AAAAA (Table 1 – Emission Limits #7) Lime Manufacturing MACT;

Fugitive emissions from processed stone handling (PSH) operations (which includes all limestone conveying equipment to the kilns) shall not exceed 10% opacity.

6. Monitoring and Recordkeeping Requirements

a) The permittee shall perform monthly 1-minute VE checks of each emissions unit in the process stone handling (PSH) operations, when the emissions unit is in operation and when the weather conditions allow, for any visible emissions of fugitive dust from the egress points (i.e.,building windows, doors, roof monitors, etc.) 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:

(1) the location and color of the emissions;

(2) whether the emissions are representative of normal operations;

(3) if the emissions are not representative of normal operations, the cause of the abnormal emissions;

(4) the total duration of any visible emission incident; and

(5) any corrective actions taken to minimize or eliminate the visible emissions.

If visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item (d) above or continue the daily check until the incident has ended. The observer may indicate that the visible emission incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible emissions were representative of normal operations, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible emissions.

[Authority for term: OAC rule 3745-77-07(C)(1) and 40 CFR Part 63, Subpart AAAAA]

b) For PSH operations (which includes all limestone conveying equipment to the kilns) subject to opacity limitations that do not use a wet scrubber control device, you are required to periodically demonstrate compliance as follows. You must conduct a monthly 1-minute visible emissions check of each emissions unit in the affected source. If no visible emissions are observed in six consecutive monthly tests for any emission unit, you may decrease the frequency of testing from monthly to semiannually for that emissions unit. If visible emissions are observed during any semiannual test, you must resume testing of that emissions unit on a monthly basis and

maintain that schedule until no visible emissions are observed in six consecutive monthly tests. If no visible emissions are observed during the semiannual test for any emissions unit, you may decrease the frequency of testing from semiannually to annually for that emissions unit. If visible emissions are observed during any annual test, you must resume visible emissions testing of that emissions unit on a monthly basis and maintain that schedule until no visible emissions are observed in six consecutive monthly tests.

A PSH operations system includes all equipment associated with PSH operations beginning at the processed stone storage bins or open storage piles and ending where the processed stone is fed into the kiln.

If visible emissions are observed during any visible emissions check, you must conduct a 6-minute test of opacity in accordance with Method 9 of appendix A to part 60 of this chapter. The Method 9 test is required to begin within 1 hour of any observation of visible emissions, and the 6-minute opacity reading must not exceed the applicable opacity limit of 10%.

[Authority for term: OAC rule 3745-77-07(C)(1) and 40 CFR Part 63, Subpart AAAAA]

7. Reporting Requirements

a) The permittee shall submit semiannual written reports that (a) identify all days during which any visible fugitive particulate emissions were observed from the egress points (i.e., building windows, doors, roof monitors, etc.) serving this emissions unit and (b) describe any corrective actions taken to minimize or eliminate the visible fugitive particulate emissions. These reports shall be submitted to the Director (the Ohio EPA Northeast District Office) by January 31 and July 31 of each year and shall cover the previous 6-month period.

[Authority for term: OAC rule 3745-77-07(C)(1)]

b) The permittee shall also report any deviation from the 10% visible emission limitation in accordance with 40 CFR Part 63 Subpart AAAAA, Section 63.7131(d).

[Authority for term: OAC rule 3745-77-07(C)(1) and 40 CFR Part 63, Subpart AAAAA]

8. Testing Requirements

a) Compliance with the allowable emission limitation in B.5 of these terms and conditions shall be determined in accordance with the following methods:

(1) <u>Emission Limitation</u>:

Fugitive emission from Processed Stone Handling (PSH) operations shall not exceed 10% opacity (F003).

Applicable Compliance Method:

Compliance with the visible particulate emission limitation shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(4) and 40 CFR Part 63, Subpart AAAAA Section 63.7121(e).

[Authority for term: OAC rule 3745-77-07(C)(1)]

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

F004 - Receiving hopper (PTI 02-2855) (10/8/86);

F008 – Slag unload and blend (PTI 02-948) (6/21/82);

P003 - Material handling weigh station (PTI 02-948) (6/21/82) and Silo #1 (PTI 02-5943) (4/17/91);

P004 - Silo #2 (PTI 02-5943) (4/17/91);

P005 - Silo #3 (PTI 02-5943) (4/17/91);

P006 - Silo #4 (PTI 02-5943) (4/17/91);

P007 - PLD silo # 5A (PTI 02-7290 (4/14/93); and

P901- Lime mixer (PTI 02-5943) (4/17/91)and truck unloading.

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

C. Emissions Unit Terms and Conditions

1. F001, Roads and parking areas

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 operation(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 are identified below. 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)(4)	There shall be no visible emissions of fugitive dust from any paved roadway or parking area at this facility except for a period of time not to exceed six minutes during any sixty-minute observation period as determined in accordance with paragraph (B)(4) of OAC rule 3745-17-03.
b.	OAC rule 3745-17-08(B)(7), (B)(8) and (B)(9)	reasonably available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see b)(2)c, b)(2)e, and b)(2)h through b)(2)k)
c.	OAC rule 3745-17-07(B)(5)	There shall be no visible emissions of fugitive dust from any unpaved roadway or parking area except for a period of time not to exceed thirteen minutes during any sixty-minute observation period as determined in accordance with paragraph (B)(4) of OAC rule 3745-17-03.
d.	OAC rule 3745-17-08(B), (B)(2)	reasonably available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see b)(2)d, b)(2)e, b)(2)f, b(2)i and b(2)j)

(2) Additional Terms and Conditions

a. The paved roadways and parking areas that are covered by this permit and subject to the requirements of OAC rules 3745-17-07 and 3745-17-08 are listed below:

i. Paved Roadways

All facility paved roadways including any public roadway contiguous to the facility where fugitive dust is directly caused by the deposition of materials due to any activities of the permittee

ii. Paved Parking Areas

All facility paved parking areas

This emissions unit also includes parking areas and roadways around the lime loadout station, PLD and PUG operations, the raw stone handling area, and any public roadway contiguous to the facility where fugitive dust is directly caused by the deposition of material due to any activities of the permittee.

b. The unpaved roadways and parking areas that are covered by this permit and subject to the requirements of OAC rules 3745-17-07 and 3745-17-08 are listed below:

i. Unpaved Roadways

All facility unpaved roadways

ii. Unpaved Parking Areas

All facility unpaved parking areas

c. The permittee shall employ reasonably 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 by sweeping and/or by water flushing at sufficient treatment frequencies to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

d. The permittee shall employ reasonably 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 water or suitable dust suppression chemicals at sufficient treatment frequencies to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other 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. A maximum speed limit of 15 miles per hour on unpaved roads shall be posted and enforced on the property.

g. 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.

h. The permittee shall promptly remove, in such a manner as to minimize or prevent resuspension, earth and/or material from paved streets onto which such material has been deposited by trucking or earth moving equipment or erosion by water or other means.

i. Open bodied vehicles transporting materials likely to become airborne shall have such materials covered at all times.

j. 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 3745-17-08.

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 each of the paved and unpaved roadway segments and each paved and unpaved parking area in accordance with the following frequencies:

a. Paved Roadways and Parking Areas	Minimum Inspection Frequency
All	daily

b. Unpaved Roadways and Parking Areas	Minimum Inspection Frequency
All	daily

[Authority for Term: OAC rule 3745-77-07(C)(1)]

(2) The purpose of the inspections is to determine the need for implementing the above-mentioned control measures. The inspections shall be performed during representative, normal traffic conditions. No inspection shall be necessary for a 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. Any required inspection that is not performed due to any of the above-identified events shall be performed as soon as such event(s) has (have) ended, except if the next required inspection is within one week.

[Authority for Term: OAC rule 3745-77-07(C)(1)]

(3) 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, and the specific control measure(s) implemented;

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 d)(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.

[A0uthority for Term: OAC rule 3745-77-07(C)(1)]

e) Reporting Requirements

(1) The permittee shall submit deviation reports that identify any of the following occurrences:

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.

[Authority for Term: OAC rule 3745-77-07(C)(1)]

(2) The deviation reports shall be submitted in accordance with the Standard Terms and Conditions of this permit.

[Authority for Term: OAC rule 3745-77-07(C)(1)]

f) Testing Requirements

(1) Compliance with the emission limitations for the paved and unpaved roadways and parking areas identified 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)(d) of OAC rule 3745-17-03.

[Authority for Term: OAC rule 3745-77-07(C)(1)]

g) Miscellaneous Requirements

(1) None.

2. **P001, Lime kiln # 4**

Operations, Property and/or Equipment Description:

Lime kiln with baghouse (shares stack with P002) fueled with either coal and/or engineered fuel.

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 operation(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 are identified below. 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) (PTI 02-319 modified on 6/20/77)	The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07(A), 3745-17-11(B) and 3745-18-49(E).
b.	OAC rule 3745-17-07(A)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to 40 CFR Part 63, Subpart AAAAA, Table 1.
c.	OAC rule 3745-18-49(E)	Sulfur dioxide emissions shall not exceed 10.0 pounds per ton of product.
d.	OAC rule 3745-17-11(B)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to 40 CFR Part 63, Subpart AAAAA (Table 1 - Emission Limits #1) Lime Manufacturing MACT.
e.	40 CFR Part 63, Subpart AAAAA (Table 1 - Emission Limits #1) Lime Manufacturing MACT	Particulate emissions shall not exceed 0.12 pound per ton of stone feed (tsf).
f.	40 CFR Part 63, Subpart AAAAA (Table 5, # 4 “Continuous Compliance with Operating Limits”) Lime Manufacturing MACT	Visible particulate emissions shall not exceed 15% opacity as a 6-minute average.

(2) Additional Terms and Conditions

a. The emissions from this emissions unit shall be vented to the baghouse at all times when the emissions unit is in operation.

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

b. The permittee shall employ vexor engineered fuel, or an equivalent fuel as emission tested on June 21 and June 22 of 2011 in this kiln.

c) Operational Restrictions

(1) The sulfur content of the coal burned in this emissions unit shall not exceed 1.5%, by weight, based on a monthly composite sample of the coal burned. (This is the sulfur content of the coal that was burned during the last compliance test that demonstrated that the emissions unit was in compliance with its sulfur dioxide emissions limitation. The sulfur content restriction may be changed provided that the permittee demonstrates, through emissions testing, that the emissions unit is in compliance at all times with the sulfur dioxide emission limitation.)

[Authority for Term: OAC rule 3745-77-07(A)(1)]

(2) The sulfur content of the engineered fuel burned in this emissions unit shall not exceed 1.5%, by weight, based on a monthly composite sample of the engineered fuel burned.

[Authority for Term: OAC rule 3745-77-07(A)(1)]

(3) The permittee shall operate the baghouse during any operation of this emissions unit where particulate emissions would result except for periods of maintenance on the baghouse, at which time one or several cells of the baghouse may be inoperable. The baghouse will still be functioning with several cells on line at this time. During this time, the permittee shall operate a continuous opacity monitor to demonstrate that the emissions are maintained at an opacity of no more than 15%.

[Authority for Term: OAC rule 3745-77-07(A)(1)]

(4) The permittee shall comply with the applicable restrictions required under 40 CFR Part 63, Subpart AAAAA (MACT for Lime Manufacturing Plants), including the following sections:

63.7090, 63.7114, 63.7121 and Table 1 of Subpart AAAAA of Part 63	Emission Limitations, Demonstration of Compliance
63.7100	General Requirements
63.7090(b), 63.7121 and Table 2 and Table 5 of Subpart AAAAA Part 63	Operating Limits and Continuous Compliance
63.7140 and Table 8 of Subpart AAAAA of Part 63	General Provisions to Subpart AAAAA

[Authority for Term: OAC rule 3745-77-07(A)(1) and 40 CFR Part 63, Subpart AAAAA]

d) Monitoring and/or Recordkeeping Requirements

(1) Statement of Certification-Opacity Monitoring

A statement of certification of the existing continuous opacity monitoring system shall be maintained on site and shall consist of a letter from the Ohio EPA detailing the results of an Agency review of the certification tests and a statement by the Agency that the system is considered certified in accordance with the requirements of 40 CFR Part 60, Appendix B, Performance Specification 1. Proof of certification shall be made available to the Director or a representative of the Northeast District Office of the Ohio EPA upon request.

[Authority for Term: OAC rule 3745-77-07(C)(1)]

(2) The permittee shall operate and maintain the existing equipment to continuously monitor and record the opacity of the particulate emissions from this emissions unit. Such continuous monitoring and recording equipment shall comply with the requirements specified in 40 CFR Part 60.13.

Each continuous emission monitoring system consists of all the equipment used to acquire data and includes the sample extraction and transport hardware, sample conditioning hardware, analyzers, and data recording/processing hardware and software.

The permittee shall maintain records of all data obtained by the continuous opacity monitoring system including, but not limited to, percent opacity on a 6-minute block average basis, results of daily zero/span calibration checks, and magnitude of manual calibration adjustments.

[Authority for Term: OAC rule 3745-77-07(C)(1)]

(3) Quality assurance/quality control

The permittee shall consistently use the written quality assurance/quality control plan for the continuous opacity monitoring system to ensure continuous valid and representative readings of opacity. The plan shall include, as a minimum, conducting and recording daily automatic zero/span checks, provisions for conducting a quarterly audit of the continuous opacity monitoring system, and a description of preventive maintenance activities. The plan shall describe step by step procedures for ensuring that sections 7.1.4, 7.4.1, 7.4.2, and Table 1-1 of Performance Specification 1 are maintained on a continuous basis. The quality assurance/quality control plan and a logbook dedicated to the continuous opacity monitoring system must be kept on site and available for inspection during regular office hours.

[Authority for Term: OAC rule 3745-77-07(C)(1)]

(4) Requirements for the Sampling and Analysis of the Coal Burned

The permittee shall collect representative grab samples of the coal burned in this emissions unit on a frequency of at least two days per week. The coal samples shall be collected from the blowpipe of each kiln located between the coal pulverizers and the burners.

If twice per week sampling is not adequate to represent the average quality of the coal burned, additional individual samples shall be collected so that each composite sample is representative of the average quality of coal burned in this emissions unit. At the end of each calendar month, all of the grab samples which are collected during that calendar month shall be combined into one composite sample.

The coal sampling shall be performed in accordance with ASTM method D2234, "Collection of a Gross Sample of Coal".

[Authority for Term: OAC rule 3745-77-07(C)(1) and OAC rule 3745-18-04(D)(3)and (F)]

(5) Each monthly composite sample of coal shall be analyzed for the following:

a. % sulfur content, by weight; and

b. heat content, in Btu/lb of coal.

The methods for analysis of the coal shall be as follows:

c. for sulfur content, " Total Sulfur in the Analysis Sample of Coal and Coke ", ASTM Method D3177, or ASTM Method D4239, " Sulfur in the Analysis Sample of Coal and Coke Using High Temperature Tube Furnace Combustion Methods"; and

d. for heat content, " Gross Calorific Value of Solid Fuel by the Adiabatic Bomb Calorimeter ", ASTM Method 2015; "Gross Calorific Value of Coal and Coke by the Isothermal Bomb Calorimeter", ASTM Method D3286; or "Standard Test Method for Gross Calorific Value of Coal and Coke by Microprocessor Controlled Isoperibol Calorimeters", ASTM Method 1989.

Since the coal burned in P001 and P002 is stored in a common silo, the permittee may submit analytical data from a single composite sample of coal from the common silo to demonstrate compliance with provisions of this section for both P001 and P002.

Any alternative analytical methods for those mentioned above, may be used upon written approval from the Ohio EPA, Northeast District Office.

[Authority for Term: OAC rule 3745-77-07(C)(1)]

(6) Requirements for the Sampling and Analysis of the Engineered Fuel Burned

During operation of this emissions unit, the permittee shall also collect representative grab samples of the engineered fuel burned in this emissions unit/kiln, from the fuel feed unit, on a frequency of at least two days per week, if Engineered Fuel is burned for a continuous week, or daily at any other frequency.

If twice per week sampling is not adequate to represent the average quality of the engineer fuel burned, additional individual samples shall be collected so that each composite sample(s) is representative of the average quality of engineered fuel burned in this emissions unit. At the end of each calendar month, all of the grab samples, which are collected during the calendar month, shall be combined into one composite sample.

The engineered fuel sampling shall be performed in accordance with ASTM method D2234 “Collection of a Gross Sample of Coal”.

[Authority for Term: OAC rule 3745-77-07(C)(1)]

(7) Each monthly composite of engineered fuel shall be analyzed for the following:

a. % sulfur content, by weight; and

b. heat content, in Btu/ton of engineered fuel.

The methods for analysis of the engineered fuel shall be as follows:

c. For sulfur content, “Total Sulfur in the Analysis sample of the Coal and Coke”, ASTM Method D3177, or ASTM Method D4239, “Sulfur in the Analysis Sample of Coal and Coke using High Temperature Tube Furnace Combustion Methods”’ and

d. For heat content, “Gross Calorific Value of solid Fuel by the Adiabatic Bomb Calorimeter”, ASTM Method 2015: “Gross Calorific Value of coal and coke by Isothermal Bomb Calorimeter: STM Method D3286; or “standard test method for Gross Calorific Value of Coal and Coke by Microprocessor Controlled Isoperibol Calorimeters”, ASTM Method 1989

Since the engineered fuel is burned in P001 and P002 feeds from a common system, the permittee may submit analytical data from a single composite sample of fuel to demonstrate compliance with provisions of this section for both P001 and P002.

Any alternative test methods for those mentioned above may be used upon written approval from the Ohio EPA, Northeast District Office.

[Authority for Term: OAC rule 3745-77-07(C)(1)]

(8) The permittee shall record the following data for each day that the source is in operation:

a. the total quantity of coal burned in tons;

b. the total quantity of limestone fired, in tons;

c. the total quantity of lime produced, in tons;

d. the average sulfur content (%) of the coal burned;

e. the average heat content (Btu/lb) of the coal burned;

f. the total quantity of engineered fuel burned, in tons;

g. the average sulfur content (%) of engineered fuel; and

h. the average heat content (Btu/lb) of engineered fuel burned.

[Authority for Term: OAC rule 3745-77-07(C)(1)]

(9) The permittee shall calculate and record the sulfur dioxide emission rate for each day, based on the sulfur analysis of the coal and engineered fuel burned and the amount of lime produced in that day, in pounds of sulfur dioxide per ton of product. This shall be determined by using the following equation:

Pounds of SO_2/ton of product = [{(sulfur content of coal [weight%/100%] x pounds of coal burned) + (sulfur content of engineered fuel [weight%/100%] x pounds of engineered fuel burned)} X (2 pounds SO_2/ pound sulfur) x (1-dry scrubbing factor)] / tons of lime product produced.

Total lime product produced includes lime, and excludes both lime kiln dust (LKD), and precipitator lime dust (PLD).

Based on a March 20, 2007 stack test for SO_2, the dry scrubbing factor shall be 0.43 (43%) until such other factor is demonstrated by the permittee to be appropriate and is approved by Ohio EPA.

[Authority for Term: OAC rule 3745-77-07(C)(1)]

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

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 pressure drop range specified below, unless the permittee determines that corrective action is not necessary and documents the reasons for that determination and the date and the 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. The investigation and records required by this paragraph do 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 shall be 1.0 to 11.0 inches of water which includes the manufacturer's recommendation of 3.0 to 10.0 inches of water for operation of the baghouse.

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

[Authority for Term: OAC rule 3745-77-07(C)(1)]

(11) The permittee shall comply with the applicable monitoring and record keeping requirements required under 40 CFR Part 63, Subpart AAAAA (MACT for Lime Manufacturing Plants), including the following sections:

.7113, 63.7120 and Table 3 of Subpart AAAAA of Part 63	Continuous Parametric Monitoring (Installation, Operation, and Maintenance); monstration of Continuous Compliance Data
ble 6 of Subpart AAAAA of Part 63	riodic Monitoring for Compliance with Opacity and Visible Emissions Limits
.7132, 63.7133	cordkeeping Requirements

[Authority for Term: OAC rule 3745-77-07(C)(1) and 40 CFR Part 63, Subpart AAAAA]

e) Reporting Requirements

(1) The permittee shall submit reports within 30 days following the end of each calendar quarter to the Northeast District Office of the Ohio EPA documenting all instances of opacity values in excess of the limitations specified in OAC rule 3745-17-07, detailing the date, commencement and completion times, duration, magnitude (percent opacity), reason (if known), and corrective actions taken (if any) of each 6-minute block average above the applicable opacity limitation(s).

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

If there are no excess emissions during the calendar quarter, the permittee shall submit a statement to that effect along with the emissions unit operating time during the reporting period and the date, time, reason, and corrective action(s) taken for each time period of emissions unit, control equipment, and/or monitoring system malfunctions. The total operating time of the emissions unit and the total operating time of the analyzer while the emissions unit was on line shall be included in the quarterly report.

These quarterly excess emission reports shall be submitted by January 31, April 30, July 31, and October 31 of each year and shall address the data obtained during the previous calendar quarter.

[Authority for Term: OAC rule 3745-77-07(C)(1) and 40 CFR Part 63, Subpart AAAAA]

(2) The permittee shall submit quarterly deviation (excursion) reports that identify any monthly record showing that the % sulfur content of the coal burned, based on the monthly composite sample, exceeded the 1.5% sulfur content limit.

[Authority for Term: OAC rule 3745-77-07(C)(1) and 40 CFR Part 63, Subpart AAAAA]

(3) The permittee shall submit quarterly deviation (excursion) reports that identify any monthly record showing that the % sulfur content of the engineered fuel burned, based on the monthly composite sample, exceeded the 1.5% sulfur content limit.

[Authority for Term: OAC rule 3745-77-01(C)(1) and CFR Part 63, Subpart AAAAA]

(4) The permittee shall submit quarterly deviation (excursion) reports that identify any daily record showing that the sulfur dioxide emission rate exceeded 10 pounds per ton of lime produced.

[Authority for Term: OAC rule 3745-77-07(C)(1) and 40 CFR Part 63, Subpart AAAAA]

(5) 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 was outside of the acceptable range;

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

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

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

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.

[Authority for Term: OAC rule 3745-77-07(C)(1)]

(6) The permittee shall comply with the applicable notification and reporting requirements required under 40 CFR Part 63, Subpart AAAAA (MACT for Lime Manufacturing Plants), including the following sections:

63.7130	Notifications Requirements
63.7131 and Table 7 of Subpart AAAAA of Part 63	Reports and Submittal Requirements

[Authority for Term: OAC rule 3745-77-07(C)(1) and 40 CFR Part 63, Subpart AAAAA]

f) Testing Requirements

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

a. Emission Limitation:

Visible particulate emissions shall not exceed 15% opacity as a 6-minute average.

Applicable Compliance Method:

Compliance with the visible particulate emission limitation shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).

b. Emission Limitation:

Sulfur dioxide emissions shall not exceed 10.0 pounds per ton of product.

Applicable Compliance Method:

Compliance shall be based upon the emission testing performed in accordance with f)(2) and the monitoring and record keeping requirements in d)(7).

c. Emission Limitation:

Particulate emissions shall not exceed 0.12 pound per ton of stone feed (tsf).

Applicable Compliance Method:

Compliance shall be demonstrated based upon the emission testing performed in accordance with f)(2) and the monitoring and record keeping requirements in d).

If required, and/or if compliance is in question, emission testing for particulate emissions shall be conducted during co-firing of sawdust in this emissions unit.

[Authority for Term: OAC rule 3745-77-07(C)(1)]

(2) Emission Testing Requirements

a. The permittee shall conduct, or have conducted, emission testing for this emissions unit approximately 2.5 years after permit issuance or at the completion of the installation of P904, sawdust handling, whichever comes first, and within 6 months prior to permit expiration. The date of the last stack test was 9/30/2011.

b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rates for particulates of 0.12 lb/tsf and for sulfur dioxide of 10 pounds per ton of product.

c. The following test methods shall be employed to demonstrate compliance with the allowable mass emission rates:

i. for sulfur dioxide, Methods 1 through 4 and 6 or 6C of 40 CFR Part 60, Appendix A; and

ii. for particulates, Methods 1 through 5 of 40 CFR Part 60, Appendix A.

d. The tests shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Northeast District Office of the Ohio EPA.

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

f. Personnel from the Northeast District Office or Lake County Health Department shall be permitted to witness the tests, examine the testing equipment, and acquire data and information necessary to ensure that the operations of the emissions unit and the testing provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

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

[Authority for Term: OAC rule 3745-77-07(C)(1) and OAC rule 3745-15-04(A)]

(3) The permittee shall comply with the applicable testing requirements required under 40 CFR Part 63, Subpart AAAAA, including the following sections:

63.7110, 63.7111, 63.7112 and Table 4 of Subpart AAAAA of Part 63	Performance Tests (Deadlines and Design)

[Auhority for Term: OAC rule 3745-77-07(C)(1) and 40 CFR Part 63, Subpart AAAAA]

g) Miscellaneous Requirements

(1) None.

3. **P002, Lime kiln # 5**

Operations, Property and/or Equipment Description:

Lime kiln with ESP (shares stack with P001) fueled with either coal and/or engineered fuel.

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 operation(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 are identified below. 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) (PTI 02-320 modified on 6/20/77)	The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07(A), 3745-17-11(B) and 3745-18-49(E).
b.	OAC rule 3745-17-07(A)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to 40 CFR Part 63, Subpart AAAAA, Table 1.
c.	OAC rule 3745-18-49(E)	Sulfur dioxide emissions shall not exceed 10.0 pounds per ton of product.
d.	OAC rule 3745-17-11(B)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to 40 CFR Part 63, Subpart AAAAA (Table 1 - Emission Limits #1) Lime Manufacturing MACT.
e.	40 CFR Part 63, Subpart AAAAA (Table 1 - Emission Limits #1) Lime Manufacturing MACT	Particulate emissions shall not exceed 0.12 pound per ton of stone feed (tsf).
f.	40 CFR Part 63, Subpart AAAAA (Table 5, # 4 “Continuous Compliance with Operating Limits”) Lime Manufacturing MACT	Visible particulate emissions shall not exceed 15% opacity as a 6-minute average.

(2) Additional Terms and Conditions

a. The emissions from this emissions unit shall be vented to the electrostatic precipitator (ESP) at all times when the emissions unit is in operation.

[Authority for terms: OAC rule 3745-77-07(C)(1)]

b. The permittee shall employ vexor engineered fuel, or an equivalent fuel as emission tested on June 21 and June 22 of 2011 in this kiln.

c) Operational Restrictions

(1) The sulfur content of the coal burned in this emissions unit shall not exceed 1.5%, by weight, based on a monthly composite sample of the coal burned. (This is the sulfur content of the coal that was burned during the last compliance test that demonstrated that the emissions unit was in compliance with its sulfur dioxide emissions limitation. The sulfur content restriction may be changed provided that the permittee demonstrates, through emissions testing, that the emissions unit is in compliance at all times with the sulfur dioxide emission limitation.)

[Authority for Term: OAC rule 3745-77-07(A)(1)]

(2) The sulfur content of the engineered fuel burned in this emissions unit shall not exceed 1.5%, by weight, based on a monthly composite sample of the engineered fuel burned.

[Authority for Term: OAC rule 3745-77-07(A)(1)]

(3) The permittee shall operate the electrostatic precipitator during any operation of this emissions unit where particulate emissions would result except for periods of maintenance at which time, one or several fields of the electrostatic precipitator may be inoperable. The electrostatic precipitator will still be functioning with several fields on line at this time. During this time, the permittee shall operate a continuous opacity monitor to demonstrate that the emissions are maintained at an opacity of no more than 15%.

[Authority for Term: OAC rule 3745-77-07(A)(1)]

(4) The permittee shall comply with the applicable restrictions required under 40 CFR Part 63, Subpart AAAAA (MACT for Lime Manufacturing Plants), including the following sections:

63.7090, 63.7114, 63.7121 and Table 1 of Subpart AAAAA of Part 63	Emission Limitations, Demonstration of Compliance
63.7100	General Requirements
63.7090(b), 63.7121 and Table 2 and Table 5 of Subpart AAAAA Part 63	Operating Limits and Continuous Compliance
63.7140 and Table 8 of Subpart AAAAA of Part 63	General Provisions to Subpart AAAAA

[Authority for Term: OAC rule 3745-77-07(A)(1) and 40 CFR Part 63, Subpart AAAAA]

d) Monitoring and/or Recordkeeping Requirements

(1) Statement of Certification-Opacity Monitoring

A statement of certification of the existing continuous opacity monitoring system shall be maintained on site and shall consist of a letter from the Ohio EPA detailing the results of an Agency review of the certification tests and a statement by the Agency that the system is considered certified in accordance with the requirements of 40 CFR Part 60, Appendix B, Performance Specification 1. Proof of certification shall be made available to the Director or a representative of the Northeast District Office of the Ohio EPA upon request.

[Authority for Term: OAC rule 3745-77-07(C)(1) and 40 CFR Part 63, Subpart AAAAA]

(2) The permittee shall operate and maintain the existing equipment to continuously monitor and record the opacity of the particulate emissions from this emissions unit. Such continuous monitoring and recording equipment shall comply with the requirements specified in 40 CFR Part 60.13.

Each continuous emission monitoring system consists of all the equipment used to acquire data and includes the sample extraction and transport hardware, sample conditioning hardware, analyzers, and data recording/processing hardware and software.

The permittee shall maintain records of all data obtained by the continuous opacity monitoring system including, but not limited to, percent opacity on a 6-minute block average basis, results of daily zero/span calibration checks, and magnitude of manual calibration adjustments.

[Authority for Term: OAC rule 3745-77-07(C)(1) and 40 CFR Part 63, Subpart AAAAA]

(3) Quality assurance/quality control

The permittee shall consistently use the written quality assurance/quality control plan for the continuous opacity monitoring system to ensure continuous valid and representative readings of opacity. The plan shall include, as a minimum, conducting and recording daily automatic zero/span checks, provisions for conducting a quarterly audit of the continuous opacity monitoring system, and a description of preventive maintenance activities. The plan shall describe step by step procedures for ensuring that sections 7.1.4, 7.4.1, 7.4.2, and Table 1-1 of Performance Specification 1 are maintained on a continuous basis. The quality assurance/quality control plan and a logbook dedicated to the continuous opacity monitoring system must be kept on site and available for inspection during regular office hours.

[Authority for Term: OAC rule 3745-77-07(C)(1) and 40 CFR Part 63, Subpart AAAAA]

(4) Requirements for the Sampling and Analysis of the Coal Burned

The permittee shall collect representative grab samples of the coal burned in this emissions unit on a frequency of at least two days per week. The coal samples shall be collected from the blowpipe of each kiln located between the coal pulverizers and the burners.

If twice per week sampling is not adequate to represent the average quality of the coal burned, additional individual samples shall be collected so that each composite sample is representative of the average quality of coal burned in this emissions unit. At the end of each calendar month, all of the grab samples which are collected during that calendar month shall be combined into one composite sample.

The coal sampling shall be performed in accordance with ASTM method D2234, “Collection of a Gross Sample of Coal".

[Authority for Term: OAC rule 3745-77-07(C)(1)and OAC rule 3745-18-04(D)(3)and (F)]

(5) Each monthly composite sample of coal shall be analyzed for the following:

a. % sulfur content, by weight; and

b. heat content, in Btu/lb of coal.

The methods for analysis of the coal shall be as follows:

c. for sulfur content, " Total Sulfur in the Analysis Sample of Coal and Coke ", ASTM Method D3177, or ASTM Method D4239, " Sulfur in the Analysis Sample of Coal and Coke Using High Temperature Tube Furnace Combustion Methods"; and

d. for heat content, " Gross Calorific Value of Solid Fuel by the Adiabatic Bomb Calorimeter ", ASTM Method 2015; "Gross Calorific Value of Coal and Coke by the Isothermal Bomb Calorimeter", ASTM Method D3286; or "Standard Test Method for Gross Calorific Value of Coal and Coke by Microprocessor Controlled Isoperibol Calorimeters", ASTM Method 1989.

Since the coal burned in P001 and P002 is stored in a common silo, the permittee may submit analytical data from a single composite sample of coal from the common silo to demonstrate compliance with provisions of this section for both P001 and P002.

Any alternative analytical methods for those mentioned above, may be used upon written approval from the Ohio EPA, Northeast District Office.

[Authority for Term: OAC rule 3745-77-07(C)(1)]

(6) Requirements for the Sampling and Analysis of the Engineered Fuel Burned

During operation of this emissions unit, the permittee shall collect representative grab samples of the engineered fuel burned in this emissions unit/kiln on a frequency of at least two days per week, if Engineered Fuel is burned for a continuous week, or daily at any other frequency.

If twice per week sampling is not adequate to represent the average quality of the engineer fuel burned, additional individual samples shall be collected so that each composite sample(s) is representative of the average quality of engineered fuel burned in this emissions unit. At the end of each calendar month, all of the grab samples, which are collected during the calendar month, shall be combined into one composite sample.

The engineered fuel sampling shall be performed in accordance with ASTM method D2234 “Collection of a Gross Sample of Coal”.

[Authority for Term: OAC rule 3745-77-07(C)(1)]

(7) Each monthly composite of engineered fuel shall be analyzed for the following:

a. % sulfur content, by weight; and

b. heat content, in Btu/ton of engineered fuel.

The methods for analysis of the engineered fuel shall be as follows:

c. For sulfur content, “Total Sulfur in the Analysis sample of the Coal and Coke”, ASTM Method D3177, or ASTM Method D4239, “Sulfur in the Analysis Sample of Coal and Coke using High Temperature Tube Furnace Combustion Methods”’ and

d. For heat content, “Gross Calorific Value of solid Fuel by the Adiabatic Bomb Calorimeter”, ASTM Method 2015: “Gross Calorific Value of coal and coke by Isothermal Bomb Calorimeter: STM Method D3286; or “standard test method for Gross Calorific Value of Coal and Coke by Microprocessor Controlled Isoperibol Calorimeters”, ASTM Method 1989

Since the engineered fuel is burned in P001 and P002 feeds from a common system, the permittee may submit analytical data from a single composite sample of fuel to demonstrate compliance with provisions of this section for both P001 and P002.

Any alternative test methods for those mentioned above may be used upon written approval from the Ohio EPA, Northeast District Office.

[Authority for Term: OAC rule 3745-77-07(C)(1)]

(8) The permittee shall record the following data for each day that the source is in operation:

a. the total quantity of coal burned in tons;

b. the total quantity of limestone fired, in tons;

c. the total quantity of lime produced, in tons;

d. the average sulfur content (%) of the coal burned;

e. the average heat content (Btu/lb) of the coal burned;

f. the total quantity of engineered fuel burned, in tons;

g. the average sulfur content (%) of engineered fuel; and

h. the average heat content (Btu/lb) of engineered fuel burned.

[Authority for Term: OAC rule 3745-77-07(C)(1)]

(9) The permittee shall calculate and record the sulfur dioxide emission rate for each day, based on the sulfur analysis of the coal and engineered fuel burned and the amount of lime produced in that day, in pounds of sulfur dioxide per ton of product. This shall be determined by using the following equation:

Pounds of SO_2/ton of product = [{(sulfur content of coal [weight%/100%] x pounds of coal burned) + (sulfur content of engineered fuel [weight%/100%] x pounds of engineered fuel burned)} X (2 pounds SO_2/ pound sulfur) x (1-dry scrubbing factor)] / tons of lime product produced.

Total lime product produced includes lime, and excludes both lime kiln dust (LKD), and precipitator lime dust (PLD).

Based on a March 20, 2007 stack test for SO_2, the dry scrubbing factor shall be 0.43 (43%) until such other factor is demonstrated by the permittee to be appropriate and is approved by Ohio EPA.

[Authority for Term: OAC rule 3745-77-07(C)(1)]

(10) The permittee shall comply with the applicable monitoring and record keeping requirements required under 40 CFR Part 63, Subpart AAAAA (MACT for Lime Manufacturing Plants), including the following sections:

63.7113, 63.7120 and Table 3 of Subpart AAAAA of Part 63	Continuous Parametric Monitoring (Installation, Operation, and Maintenance); Demonstration of Continuous Compliance Data
Table 6 of Subpart AAAAA of Part 63	Periodic Monitoring for Compliance with Opacity and Visible Emissions Limits
63.7132, 63.7133	Recordkeeping Requirements

[Authority for Term: OAC rule 3745-77-07(C)(1) and 40 CFR Part 63, Subpart AAAAA]

e) Reporting Requirements

(1) The permittee shall submit reports within 30 days following the end of each calendar quarter to the Northeast District Office of the Ohio EPA documenting all instances of opacity values in excess of the limitations specified in OAC rule 3745-17-07, detailing the date, commencement and completion times, duration, magnitude (percent opacity), reason (if known), and corrective actions taken (if any) of each 6-minute block average above the applicable opacity limitation(s).

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

If there are no excess emissions during the calendar quarter, the permittee shall submit a statement to that effect along with the emissions unit operating time during the reporting period and the date, time, reason, and corrective action(s) taken for each time period of emissions unit, control equipment, and/or monitoring system malfunctions. The total operating time of the emissions unit and the total operating time of the analyzer while the emissions unit was on line shall be included in the quarterly report.

These quarterly excess emission reports shall be submitted by January 31, April 30, July 31, and October 31 of each year and shall address the data obtained during the previous calendar quarter.

[Authority for Term: OAC rule 3745-77-07(C)(1) and 40 CFR Part 63, Subpart AAAAA]

(2) The permittee shall submit quarterly deviation (excursion) reports that identify any monthly record showing that the % sulfur content of the coal burned, based on the monthly composite sample, exceeded the 1.5% sulfur content limit.

(3) The permittee shall submit quarterly deviation (excursion) reports that identify any monthly record showing that the % sulfur content of the engineered fuel burned, based on the monthly composite sample, exceeded the 1.5% sulfur content limit.

[Authority for Term: OAC rule 3745-77-07(C)(1) and 40 CFR Part 63, Subpart AAAAA]

(4) The permittee shall submit quarterly deviation (excursion) reports that identify any daily record showing that the sulfur dioxide emission rate exceeded 10 pounds per ton of lime produced.

[Authority for Term: OAC rule 3745-77-07(C)(1) and 40 CFR Part 63, Subpart AAAAA]

(5) The permittee shall comply with the applicable notification and reporting requirements required under 40 CFR Part 63, Subpart AAAAA (MACT for Lime Manufacturing Plants), including the following sections:

63.7130	Notifications Requirements
63.7131 and Table 7 of Subpart AAAAA of Part 63	Reports and Submittal Requirements

[Authority for Term: OAC rule 3745-77-07(C)(1) and 40 CFR Part 63, Subpart AAAAA]

f) Testing Requirements

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

a. <u>Emission Limitation</u>:

Visible particulate emissions shall not exceed 15% opacity as a 6-minute average.

<u>Applicable Compliance Method</u>:

Compliance with the visible particulate emission limitation shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).

b. Emission Limitation:

Sulfur dioxide emissions shall not exceed 10.0 pounds per ton of product.

Applicable Compliance Method:

Compliance shall be demonstrated based upon the emission testing performed in accordance with f)(2) and the monitoring and record keeping requirements in d)(7).

c. Emission Limitation:

Particulate emissions shall not exceed 0.12 pound per ton of stone feed (tsf).

Applicable Compliance Method:

Compliance shall be demonstrated based upon the emission testing performed in accordance with f)(2) and the monitoring and record keeping requirements in section c).

If required, and/or if compliance is in question, emission testing for particulate emissions shall be conducted during co-firing of sawdust in this emissions unit.

[Authority for Term: OAC rule 3745-77-07(C)(1) and 40 CFR Part 63, Subpart AAAAA]

(2) Emission Testing Requirements

a. The permittee shall conduct, or have conducted, emission testing for this emissions unit approximately 2.5 years after permit issuance or at the completion of the installation of P904, sawdust handling, whichever comes first, and within 6 months prior to permit expiration. The date of the last stack test was 9/30/2011.

b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rates for particulates of 0.12 lb/tsf and for sulfur dioxide of 10 pounds per ton of product.

c. The following test methods shall be employed to demonstrate compliance with the allowable mass emission rates:

i. for sulfur dioxide, Methods 1 through 4 and 6 or 6C of 40 CFR Part 60, Appendix A; and

ii. for particulates, Methods 1 through 5 of 40 CFR Part 60, Appendix A.

d. The tests shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Northeast District Office of the Ohio EPA.

e. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Northeast District Office of the Ohio EPA and the Lake County Health Department. The "Intent to Test Notification"

shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the tests and the person(s) who will be conducting the tests. Failure to submit such notification for review and approval prior to the tests may result in the Northeast District Office's refusal to accept the results of the emission tests.

f. Personnel from the Northeast District Office or Lake County Health Department shall be permitted to witness the tests, examine the testing equipment, and acquire data and information necessary to ensure that the operations of the emissions unit and the testing provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

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

[Authority for Term: OAC rule 3745-77-07(C)(1) and OAC rule 3745-15-04(A)]

(3) The permittee shall compy with the applicable testing requirements required under 40 CFR Part 63, Subpart AAAAA, including the following sections:

63.7110, 63.7111, 63.7112 and Table 4 of Subpart AAAAA of Part 63	Performance Tests (Deadlines and Design)

[Authority for Term: OAC rule 3745-77-07(C)(1) and 40 CFR Part 63, Subpart AAAAA]

g) Miscellaneous Requirements

(1) None.

4. **P903, Lime conveying**

Operations, Property and/or Equipment Description:

Lime conveying from coolers to storage

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 operation(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 are identified below. 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(A)	Visible particulate emissions from the lime conveying baghouse outlet shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.
b.	OAC rule 3745-17-07(B)(1)	Visible emissions of fugitive dust from lime conveying operations, including fugitive emissions from all discharge points in this process, shall not exceed 20% opacity as a 3-minute average.
c.	OAC rule 3745-17-08(B)(3)	The permittee shall use hoods, fans, and other equipment (including fabric filter baghouses) to adequately enclose, contain, capture, vent and control the fugitive dust from the 7 discharge points, including points of silo discharge onto the belts and entrances and exits of the lime conveyor. Such equipment shall meet the following requirements: (a) the collection efficiency shall be sufficient to minimize or eliminate visible emissions of fugitive dust to the extent possible with good engineering design; and (b) each of the lime conveyor baghouses shall achieve an outlet emission rate of not greater than 0.030 grain of particulate emissions per dry standard cubic foot of

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		exhaust gases or there are no visible particulate emissions from the exhaust stack(s), whichever is less stringent. The roof over the truck loading station shall be maintained to minimize dust accumulation, such that no visible emissions result. Emissions from the lime conveyor shall be minimized. See b)(2)b.

(2) Additional Terms and Conditions

a. All of the fabric filter baghouses associated with this emissions unit shall be used at all times when this emissions unit is in operation.

b. The permittee shall continue to use and maintain the partial enclosure on the lime conveyor to ensure adequate enclosure. In addition, the permittee shall periodically inspect each portion of the lime conveyor and neighboring roofs to detect leaks and discharges and repair and maintain containment of lime dust, quarterly, to ensure that dust deposition is minimized.

c. Nothing in this permit shall prohibit the permittee from employing additional control measures to ensure compliance with the requirements of OAC rules 3745-17-07 and 3745-17-08.

d. The permittee shall clean up dust deposition from the operation of this emissions unit in order to minimize or eliminate fugitive dust accumulation at the facility.

Specifically, cleanup of the roof on the lime truck loading station shall be completed every 6 months or more often if determined necessary by Ohio EPA.

c) Operational Restrictions

(1) None.

d) Monitoring and/or Recordkeeping Requirements

(1) The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the baghouses 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 location and color of the emissions;

b. whether the emissions are representative of normal operations;

c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;

d. the total duration of any visible emission incident; and

e. any corrective actions taken to minimize or eliminate the visible emissions.

[Authority for Term: OAC rule 3745-77-07(C)(1)]

(2) The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible emissions of fugitive dust from the egress points (i.e., building windows, doors, roof monitors, etc.) 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 location and color of the emissions;

b. whether the emissions are representative of normal operations;

c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;

d. the total duration of any visible emission incident; and

e. any corrective actions taken to minimize or eliminate the visible emissions.

If visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item (d) above or continue the daily check until the incident has ended. The observer may indicate that the visible emission incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible emissions were representative of normal operations, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible emissions.

[Authority for Term: OAC rule 3745-77-07(C)(1)]

(3) The permittee shall document all baghouse inspections and maintenance work, including the dates, any problems discovered, and any remedial actions.

[Authority for Term: OAC rule 3745-77-07(C)(1)]

e) Reporting Requirements

(1) The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the baghouses serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Northeast District Office of

the Ohio EPA by January 31 and July 31 of each year and shall cover the previous 6-month period.

[Authority for Term: OAC rule 3745-77-07(C)(1)]

(2) The permittee shall submit semiannual written reports that (a) identify all days during which any visible emissions of fugitive dust were observed from the egress points (i.e., building windows, doors, roof monitors, etc.) serving this emissions unit and (b) describe any corrective actions taken to minimize or eliminate the visible emissions of fugitive dust. These reports shall be submitted to the Northeast District Office of the Ohio EPA by January 31 and July 31 of each year and shall cover the previous 6-month period.

[Authority for Term: OAC rule 3745-77-07(C)(1)]

f) Testing Requirements

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

a. Emission Limitation:

Visible particulate emissions from the lime conveying baghouse outlet shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.

Applicable Compliance Method:

OAC rule 3745-17-03(B)(1)

b. Emission Limitation:

Visible emissions of fugitive dust from lime conveying operations, including fugitive emissions from all discharge points in this process, shall not exceed 20% opacity as a 3-minute average.

Applicable Compliance Method:

OAC rule 3745-17-03(B)(3)

c. Emission Limitation:

Particulate emissions from each lime conveying baghouse shall achieve an emission rate of not greater than .030 grain of particulate matter per dry standard cubic foot of exhaust gases or there shall be no visible particulate emissions from the lime conveying baghouse exhaust outlet, whichever is less stringent.

Applicable Compliance Method:

OAC rule 3745-17-03(B)(7)

[Authority for Term: OAC rule 3745-77-07(C)(1)]

g) Miscellaneous Requirements

(1) None.

5. **P904, Sawdust handling operation**

Operations, Property and/or Equipment Description:

Sawdust handling operation

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 operation(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 are identified below. 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), as effective 11/30/01 [PTI P0106662 (8/17/10)]	Particulate emissions shall not exceed 0.0042 grain/dscf and 1.5 pounds per hour from each dust collector exhaust. Particulate emissions shall not exceed 6.62 tons per year from all point sources. Particulate emissions of fugitive dust shall not exceed 2.63 tons per year for all fugitive emission sources associated with this emissions unit. See b)(2)a.
b.	OAC rule 3745-31-05(A)(3)(a)(ii), as effective 12/01/06 [PTI P0106662 (8/17/10)]	See b)(2)b.

c.	OAC rule 3745-17-07(A)	Visible particulate emissions shall not exceed 20% opacity as a 6-minute average except as provided by the rule from the unloading station dust collector, silo vents and cartridge filters serving this emissions unit (i.e., from unloading station collector stack DC-1; from silo filter vents DC-2 and DC-3; and from cartridge filters DC-4 and DC-5).
d.	OAC rule 3745-17-07(B)	Visible emissions of fugitive dust shall not exceed 20% opacity as a 3-minute average, from the truck unloading operation and all other fugitive emission points such as the covered weigh belt and the entrance to the hammermill. See b)(2)c.
e.	OAC rule 3745-17-08(B)	Reasonably available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust from fugitive emission points. See b)(2)c.
f.	OAC rule 3745-17-11(B)	The emission limitation required by this applicable rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

(1) Additional Terms and Conditions

a. The permittee has satisfied the Best Available Technology (BAT) requirements pursuant to OAC paragraph 3745-31-05(A)(3), as effective November 30, 2001, in this permit. On December 1, 2006, paragraph (A)(3) of OAC rule 3745-31-05 was revised to conform to ORC changes effective August 3, 2006 (S.B. 265 changes), such that BAT is no longer required by state regulations for NAAQS pollutants less than ten tons per year. However, that rule revision has not yet been approved by U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the U.S. EPA approves the revisions to OAC rule 3745-31-05, the requirements to satisfy BAT still exists as part of the federally approved SIP for Ohio. Once U.S. EPA approves the December 1, 2006 version of 3745-31-05, then these emission limits/control measures no longer apply.

b. This rule paragraph applies once U.S. EPA approves the December 1, 2006 version of OAC rule 3745-31-05 as part of the SIP.

Once the December 1, 2006 version of OAC rule 3745-31-05 is included in the Ohio SIP, BAT shall not be applicable as the potential to emit for particulate emissions (including controls) will be < 10 tpy.

c. This permit requires this air contaminant source to employ the following control devices and measures, whenever this air contaminant source is in operation, as follows, as RACM and BAT:

i. for fugitive emissions from the saw dust receiving with DC-1:

(a) use of partial enclosure for truck unloading station; and

ii. for fugitive emissions from the pneumatic conveying/storage with DC-2 or DC-3:

(a) total enclosure for the drag conveyor; and

(b) fugitive emissions shall not exceed 20%, as a 3-minute average; and

iii. for sawdust processing/handling to kiln #4 (P001) and kiln #5 (P002) with DC-4 and DE-5:

(a) covered weigh belt and building enclosure around each handling system; and

(b) visible fugitive emissions shall not exceed 20% opacity, as a 3-minute average.

Nothing in this permit prevents the permittee from using additional means and methods to control fugitive dust.

In the event that US EPA approves the December 1, 2006 version of OAC rule 3745-31-05 as part of the State Implementation plan and BAT is no longer applicable for sources with PTEs less than 10 tpy of particulate, the above control devices will be required as voluntary restrictions in accordance with OAC rule 3745-31-05(E) on emissions unit P904.

c) Operational Restrictions

(1) The permittee shall use silo filter vents to restrict emissions at all times to ensure compliance with point source emission limitations.

[Authority for Term: OAC rule 3745-77-07(A)(1) and PTI P0106662]

d) Monitoring and/or Recordkeeping Requirements

(1) The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stacks/dust collector serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:

a. the color of the emissions;

b. whether the emissions are representative of normal operations;

c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;

d. the total duration of any visible emission incident; and

e. any corrective actions taken to minimize or eliminate the visible emissions.

[Authority for Term: OAC rule 3745-77-07(C)(1) and PTI P0106662]

(2) The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible emissions of fugitive dust from the egress points (i.e., building windows, doors, roof monitors, etc.) of the enclosure containing the sawdust receiving operation and the drag conveyor for 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 location and color of the emissions;

b. whether the emissions are representative of normal operations;

c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;

d. the total duration of any visible emission incident; and

e. any corrective actions taken to minimize or eliminate the visible emissions.

If visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item (d) above or continue the daily check until the incident has ended. The observer may indicate that the visible emission incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible emissions were representative of normal

operations, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible emissions.

[Authority for Term: OAC rule 3745-77-07(C)(1) and PTI P0106662]

e) Reporting Requirements

(1) The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the stacks/dust collector serving this emissions unit and (b) describe any corrective actions taken to minimize or eliminate the visible particulate emissions. These reports shall be submitted to the Director (the Ohio EPA Northeast District Office) by January 31 and July 31 of each year and shall cover the previous 6-month period.

[Authority for Term: OAC rule 3745-77-07(C)(1) and PTI P0106662]

(2) The permittee shall submit semiannual written reports that (a) identify all days during which any visible emissions of fugitive dust were observed from the egress points (i.e., building windows, doors, roof monitors, etc.) of the enclosure containing the sawdust receiving operation for this emissions unit and (b) describe any corrective actions taken to minimize or eliminate the visible particulate emissions. These reports shall be submitted to the Director (the Ohio EPA Northeast District Office) by January 31 and July 31 of each year and shall cover the previous 6-month period.

[Authority for Term: OAC rule 3745-77-07(C)(1) and PTI P0106662]

f) Testing Requirements

(1) Compliance with the emission limitations and control requirements in the terms and conditions of this permit shall be determined in accordance with the following methods:

a. <u>Emission Limitation</u>:

Particulate emissions shall not exceed 0.0042 grain/dscf and 1.5 pounds per hour from each dust collector exhaust.

<u>Applicable Compliance Method</u>:

The potential to emit for point source particulate emissions from this emissions unit is less than the emission limitation pursuant to Figure II of Ohio Administrative Code rule 3745-17-11.

The controlled potential to emit for this emissions unit is 1.50 lbs PE/hr for point sources and was determined by multiplying the maximum outlet concentration of 0.0042 grain PE/dscf by a total maximum volumetric air flow of 42,000 acfm (20,000 acfm for DC-1+ 20,000 acfm for DC2/DC3 + 1000 acfm for DC-4 + 1000 acfm for DC-5) and applying the appropriate conversion factors of 7000 grains/lb, 1 dscf/1acfm, and 60 minutes/hr.

If required, the permittee shall demonstrate compliance with the short term emission limitations pursuant to OAC rule 3745-17-03(B)(10).

b. Emission Limitation:

Particulate emissions shall not exceed 6.62 tons per year from all point sources.

Applicable Compliance Method:

The tpy emission limitation was developed by multiplying the short-term allowable particulate emission limitation (1.5 lbs/hr) by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the short-term allowable emission limitation, compliance shall also be shown with the annual emission limitation.

c. Emission Limitation:

Visible particulate emissions shall not exceed 20% opacity as a 6-minute average except as provided by the rule from the unloading station dust collector, silo vents and cartridge filters serving this emissions unit (i.e., from unloading station collector stack DC-1; from silo filter vents DC-2 and DC-3; and from cartridge filters DC-4 and DC-5).

Applicable Compliance Method:

If required, compliance shall be demonstrated in accordance with OAC rule 3745-17-03(B)(1) using Method 9 of 40 CFR Part 60, Appendix A.

d. Emission Limitation:

Particulate emissions of fugitive dust shall not exceed 2.63 tons per year for all fugitive emission sources associated with this emissions unit.

Applicable Compliance Method:

The potential to emit for this emissions unit is 2.63 tons PE/year. Potential fugitive emissions were determined by multiplying the maximum outlet concentration of 0.0042 grain PE/dscf by the maximum volumetric air flow of 20,000 acfm for DC-1, applying the appropriate conversion factors of 7000 grains/lb, 1 dscf/1acfm, and 60 minutes/hr, to get potential controlled emissions of 0.72 lb/hr of PE and 3.15 tons per year.

Then solving for the uncontrolled mass rate of emissions and applying the 94% overall reduction (from the PTI application):

(X lbs UMRE/hr) (1-0.94) = 0.72 lb/hr; X= 12 lbs/hr which is the uncontrolled mass rate of emissions; then multiplying by 1-95% for capture efficiency (based on the manufacturer's specifications), the uncontrolled potential for PE becomes 12 lbs/hr x 0.05 = 0.6 lb/hr; @8760 2.63 tpy.

e. Emission Limitation:

Visible emissions of fugitive dust shall not exceed 20% opacity as a 3-minute average, from the truck unloading operation and all other fugitive emission points such as the covered weigh belt and the entrance to the hammermill.

Applicable Compliance Method:

If required, compliance shall be demonstrated in accordance with OAC rule 3745-17-03(B)(3) using Method 9 of 40 CFR Part 60, Appendix A.

[Authority for Term: OAC rule 3745-77-07(C)(1) and PTI P0106662]

(2) If required, the permittee shall conduct, or have conducted, emissions testing in accordance with the following requirements:

a. Emissions testing shall be conducted on stack DC-1, silo filter vent DC-2 or DC-3 and cartridge filter DC-4 or DC-5 to demonstrate compliance with the maximum outlet concentrations of 0.0042 gr PE/dscf and to estimate the pounds per hour emission rates the individual tested rates shall be summed.

The common outlet stack from the kilns shall be tested for particulate emissions and any other air contaminant determined to be necessary by Ohio EPA.

b. The following test methods shall be employed: for PE, Methods 1 through 5 of 40 CFR Part 60, Appendix A. Alternative U.S. EPA-approved test methods may be used with prior approval from the Ohio EPA, Northeast District Office.

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

d. Personnel from the Ohio EPA, Northeast District Office shall be permitted to witness the tests, examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

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

[Authority for Term: OAC rule 3745-77-07(C)(1) and PTI P0106662]

g) Miscellaneous Requirements

(1) None.