



State of Ohio Environmental Protection Agency

Street Address:

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

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

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

02/28/03

CERTIFIED MAIL

RE: Draft Title V Chapter 3745-77 permit

03-88-00-0043
National Lime and Stone Company - Carey, OH Lime Plant
R. Daniel Mapes
551 Lake Cascades Parkway
P.O. Box 120
Findlay, OH 45839

Dear R. Daniel Mapes:

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

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

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

Very truly yours,

Michael W. Ahern, Supervisor
Field Operations and Permit Section
Division of Air Pollution Control

cc: USEPA (electronically submitted)
File, DAPC PMU
Northwest District Office
Michigan



State of Ohio Environmental Protection Agency

DRAFT TITLE V PERMIT

Issue Date: 02/28/03	Effective Date: To be entered upon final issuance	Expiration Date: To be entered upon final issuance
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This document constitutes issuance of a Title V permit for Facility ID: 03-88-00-0043 to:
National Lime and Stone Company - Carey, OH Lime Plant
North Patterson Street
P.O. Box 8
Carey, OH 43316

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

F001 (Paved/Unpaved Roadways & Parking Lots) Vehicle travel on Lime Plant paved and unpaved roadways and parking lots.	Calcination of limestone at high temperature using a calcimatic (rotary hearth) kiln.	sprays inside an atmospheric hydrator.
F005 (Finished Product Unloading Operations) Unloading of finished product from loadout spout to either trucks or railcars.	P004 (Calcimatic Lime Kiln #2) Calcination of limestone at high temperature using a calcimatic (rotary hearth) kiln.	P019 (Hydrated Lime Grinder) Conversion of hydrated lime to finished product via grinding operations.
F008 (Crushing, Screening, and Material Handling) Crushing, screening, and material handling operations associated with processing of raw materials and finished products.	P007 (Lime Hydrator #1) Conversion of lime to hydrated lime using water sprays inside an atmospheric hydrator.	P020 (Lime Cooler #2) Cooling of lime product.
P003 (Calcimatic Lime Kiln #1)	P017 (Lime Hydrator #2) Conversion of lime to hydrated lime using water	P021 (Lime Cooler #1) Cooling of lime product.

You will be contacted approximately eighteen (18) months prior to the expiration date regarding the renewal of this permit. If you are not contacted, please contact the appropriate Ohio EPA District Office or local air agency listed below. This permit and the authorization to operate the air contaminant sources (emissions units) at this facility shall expire at midnight on the expiration date shown above. If a renewal permit is not issued prior to the expiration date, the permittee may continue to operate pursuant to OAC rule 3745-77-08(E) and in accordance with the terms of this permit beyond the expiration date, provided that a complete renewal application is submitted no earlier than eighteen (18) months and no later than one-hundred eighty (180) days prior to the expiration date.

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

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

OHIO ENVIRONMENTAL PROTECTION AGENCY

Christopher Jones
Director

PART I - GENERAL TERMS AND CONDITIONS

A. State and Federally Enforceable Section

1. Monitoring and Related Record Keeping and Reporting Requirements

- a. Except as may otherwise be provided in the terms and conditions for a specific emissions unit, the permittee shall maintain records that include the following, where applicable, for any required monitoring under this permit:
 - i. The date, place (as defined in the permit), and time of sampling or measurements.
 - ii. The date(s) analyses were performed.
 - iii. The company or entity that performed the analyses.
 - iv. The analytical techniques or methods used.
 - v. The results of such analyses.
 - vi. The operating conditions existing at the time of sampling or measurement.
(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:
 - i. Reports of any required monitoring and/or record keeping information shall be submitted to the appropriate Ohio EPA District Office or local air agency.
(Authority for term: OAC rule 3745-77-07(A)(3)(c))
 - ii. **All reporting required in accordance with the OAC rule 3745-77-07(A)(3)(c) with respect to emission limitations, operational restrictions, and control device operating parameter limitations shall be submitted in the following manner:**
 - (a) Written reports of (i) any deviations from federally enforceable emission limitations, operational restrictions, and control device operating parameter limitations ; (ii) the probable cause of such deviations; and (iii) any corrective actions or preventive measures taken, shall be promptly made to the appropriate Ohio EPA District Office or local air agency. Except as may otherwise be provided in the terms and conditions for a specific emissions unit, i.e., in Part III of this Title V permit, the written reports shall be submitted quarterly, i.e., by January 31, April 30, July 31, and October 31 of each year, and shall cover the previous calendar quarters. 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. These written reports shall satisfy the

requirements (in part) of OAC rule 3745-77-07(A)(3)(c)(i) and (ii) pertaining to the submission of monitoring reports every six months and the requirements (in part) of OAC rule 3745-77-07(A)(3)(c)(iii) pertaining to the prompt reporting of all deviations. See B.6 below if no deviations occurred during the quarter.

(Authority for term: OAC rules 3745-77-07(A)(3)(c)(i), (ii) and (iii))

- (b) 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 deviation reporting requirements for this Title V permit, written reports that identify each malfunction that occurred during each calendar quarter shall be submitted, at a minimum, quarterly, i.e., by January 31, April 30, July 31, and October 31 of each year, and shall cover the previous calendar quarters.

In identifying each deviation caused by a malfunction, the permittee shall specify the applicable requirement 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. Also, if a deviation caused by a malfunction is identified in a written report submitted pursuant to paragraph (a) above, a separate report is not required for that malfunction pursuant to this paragraph. Nevertheless, all malfunctions, including those reported only verbally in accordance with OAC rule 3745-15-06, must be reported in writing, at a minimum, on a quarterly basis.

Any scheduled maintenance, as defined in OAC rule 3745-15-06(A)(1), that results in a deviation from a federally enforceable emission limitation, operational restriction, and control device operating parameter limitation shall be reported in the same manner as described above for malfunctions. These written reports for malfunctions (and scheduled maintenance projects, if appropriate) shall satisfy the requirements (in part) of OAC rule 3745-77-07(A)(3)(c)(iii) pertaining to the prompt reporting of all deviations.

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

iii. **For monitoring, record keeping, and reporting requirements:**

Written reports that identify any deviations from the federally enforceable monitoring, record keeping, and reporting requirements contained in this permit shall be submitted to the appropriate Ohio EPA District Office or local air agency every six months, i.e., by January 31 and July 31 of each year, for the previous six calendar months. 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. These semi-annual written reports shall satisfy the requirements of OAC rule 3745-77-07(A)(3)(c)(i) and (ii) pertaining to the reporting of any deviations related to the monitoring, record

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

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

- iv. Each written report shall be signed by a responsible official certifying that, "based on information and belief formed after reasonable inquiry, the statements and information in the report (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))

2. Scheduled Maintenance/Malfunction Reporting

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. The malfunction of any emissions unit(s) 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 OAC rule 3745-15-06, 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).

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

3. Risk Management Plans

If the permittee is required to develop and register a risk management plan pursuant to section 112(r) of the Clean Air Act, as amended, 42 U.S.C. 7401 et seq. ("Act"), the permittee shall comply with the requirement to register such a plan.

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

4. Title IV Provisions

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

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

5. Severability Clause

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

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

6. General Requirements

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

revocation, revocation and reissuance, or modification, or for denial of a permit renewal application.

- b. It shall not be a defense for the permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the federally enforceable terms and conditions of this permit.
- c. This permit may be modified, reopened, revoked, or revoked and reissued, for cause, in accordance with A.10 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.

(Authority for term: OAC rule 3745-77-07(A)(7))

7. Fees

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

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

8. Marketable Permit Programs

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

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

9. Reasonably Anticipated Operating Scenarios

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

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

10. Reopening for Cause

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

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

11. Federal and State Enforceability

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

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

12. Compliance Requirements

- a. Any document (including reports) required to be submitted and required by a federally applicable requirement in this Title V permit shall include a certification by a responsible official that, based on information and belief formed after reasonable inquiry, the statements in the document are true, accurate, and complete.
- b. Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the Director of the Ohio EPA or an authorized representative of the Director to:
 - i. At reasonable times, enter upon the permittee's premises where a source is located or the emissions-related activity is conducted, or where records must be kept under the conditions of this permit.

- ii. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit, subject to the protection from disclosure to the public of confidential information consistent with paragraph (E) of OAC rule 3745-77-03.
 - iii. Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit.
 - iv. As authorized by the Act, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit and applicable requirements.
- c. The permittee shall submit progress reports to the appropriate Ohio EPA District Office or local air agency concerning any schedule of compliance for meeting an applicable requirement. Progress reports shall be submitted semiannually, or more frequently if specified in the applicable requirement or by the Director of the Ohio EPA. Progress reports shall contain the following:
- i. Dates for achieving the activities, milestones, or compliance required in any schedule of compliance, and dates when such activities, milestones, or compliance were achieved.
 - ii. An explanation of why any dates in any schedule of compliance were not or will not be met, and any preventive or corrective measures adopted.
- d. Compliance certifications concerning the terms and conditions contained in this permit that are federally enforceable emission limitations, standards, or work practices, shall be submitted to the 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:
- i. Compliance certifications shall be submitted annually on a calendar year basis. The annual certification shall be submitted on or before April 30th of each year during the permit term.
 - ii. Compliance certifications shall include the following:
 - (a) An identification of each term or condition of this permit that is the basis of the certification.
 - (b) The permittee's current compliance status.
 - (c) Whether compliance was continuous or intermittent.
 - (d) The method(s) used for determining the compliance status of the source currently and over the required reporting period.
 - (e) Such other facts as the Director of the Ohio EPA may require in the permit to determine the compliance status of the source.
 - iii. Compliance certifications shall contain such additional requirements as may be specified pursuant to sections 114(a)(3) and 504(b) of the Act.

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

13. Permit Shield

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

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

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

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

14. Operational Flexibility

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

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

15. Emergencies

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

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

16. Off-Permit Changes

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

- a. The change does not result in conditions that violate any applicable requirements or that violate any existing federally enforceable permit term or condition.
- b. The permittee provides contemporaneous written notice of the change to the Director and the Administrator of the U.S. EPA, except that no such notice shall be required for changes that qualify as insignificant emission levels or activities as defined in OAC rule 3745-77-01(U). Such written notice shall describe each such change, the date of such change, any change in emissions or pollutants emitted, and any federally applicable requirement that would apply as a result of the change.

- c. The change shall not qualify for the permit shield under OAC rule 3745-77-07(F).
- d. The permittee shall keep a record describing all changes made at the source that result in emissions of a regulated air pollutant subject to an applicable requirement, but not otherwise regulated under the permit, and the emissions resulting from those changes.
- e. The change is not subject to any applicable requirement under Title IV of the Act or is not a modification under any provision of Title I of the Act.

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

(For purposes of clarification, the permittee can refer to Engineering Guide #63 that is available in the STARSHIP software package.)
(Authority for term: OAC rule 3745-77-07(I))

17. Compliance Method Requirements

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

18. Insignificant Activities

Each insignificant activity that has one or more applicable requirements shall comply with those applicable requirements.
(Authority for term: OAC rule 3745-77-07(A)(1))

19. 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))

20. 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))

B. State Only Enforceable Section

1. Reporting Requirements Related to Monitoring and Record Keeping Requirements

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 quarterly, i.e., by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. (These quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06.)

2. Records Retention Requirements

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

3. 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.

4. 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).

5. 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.

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

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

Part II - Specific Facility Terms and Conditions

A. State and Federally Enforcable Section

1. The permittee may be subject to the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Lime Manufacturing NESHAP, 40 CFR Part 63, Subpart AAAAA. U.S. EPA failed to promulgate this standard by May 15, 2002, the Maximum Achievable Control Technology (MACT) hammer date. In accordance with 40 CFR Part 63, Subpart B (40 CFR Parts 63.50 through 63.56), the permittee shall submit an application to revise the permit to include equivalent emission limitations as a result of a case-by-case MACT determination. The application shall be submitted in two parts. The deadline to submit the Part I application, as specified in 40 CFR Part 63.53, was May 15, 2002.
2. If the final NESHAP standard is not promulgated by the deadline specified by U.S. EPA, the permittee shall submit the Part II application as specified in 40 CFR Part 63.53. The Part II application shall be submitted within 60 days after the deadline to promulgate the respective standard or by May 15, 2003, whichever is later. It must contain the following information, unless otherwise specified by future U.S. EPA regulations:
 - a. for a new affected source, the anticipated date of startup of operation;
 - b. the hazardous air pollutants (HAPs) emitted by each affected source in the relevant source category and an estimated total uncontrolled and controlled emission rate for HAPs from the affected source;
 - c. any existing federal, State, or local limitations or requirements applicable to the affected source;
 - d. for each affected emission point or group of affected emission points, an identification of control technology in place;
 - e. information relevant to establishing the MACT floor (or MACT emission limitation), and, at the option of the permittee, a recommended MACT floor; and
 - f. any other information reasonably needed by the permitting authority including, at the discretion of the permitting authority, information required pursuant to Subpart A of 40 CFR Part 63.

The Part II application for a MACT determination may, but is not required to, contain the following information:

- a. recommended emission limitations for the affected source and support information (the permittee may recommend a specific design, equipment, work practice, or operational standard, or combination thereof, as an emission limitation);
 - b. a description of the control technologies that would be applied to meet the emission limitation, including technical information on the design, operation, size, estimated control efficiency and any other information deemed appropriate by the permitting authority, and identification of the affected sources to which the control technologies must be applied; and
 - c. relevant parameters to be monitored and frequency of monitoring to demonstrate continuous compliance with the MACT emission limitation over the applicable reporting period.
3. If the NESHAP is promulgated before the Part II application is due for the relevant source category, the permittee may be subject to the rule as an existing major source with a compliance date as specified in the NESHAP. If subject, the permittee shall submit the following notifications:
 - a. Unless otherwise specified in the relevant Subpart, within 120 days after promulgation of a 40 CFR Part 63 Subpart to which the source is subject, the permittee shall submit an Initial Notification Report that contains the following information, in accordance with 40 CFR Part 63.9(b)(2):
 - i. the name and mailing address of the permittee;
 - ii. the physical location of the source if it is different from the mailing address;
 - iii. identification of the relevant MACT standard and the source's compliance date;
 - iv. a brief description of the nature, design, size, and method of operation of the source, and an identification of the types of emission points within the affected source subject to the relevant standard and the types of HAPs emitted; and
 - v. a statement confirming the facility is a major source for HAPs.
 - b. Unless otherwise specified in the relevant Subpart, within 60 days following completion of any required compliance demonstration activity specified in the relevant Subpart, the permittee shall submit a notification of compliance status that contains the following information:
 - i. the methods used to determine compliance;
 - ii. the results of any performance tests, visible emission observations, continuous monitoring systems performance evaluations, and/or other monitoring procedures or methods that were conducted;
 - iii. the methods that will be used for determining continuous compliance, including a description of monitoring and reporting requirements and test methods;
 - iv. the type and quantity of HAPs emitted by the source, reported in units and averaging times in accordance with the test methods specified in the relevant Subpart;
 - v. an analysis demonstrating whether the affected source is a major source or an area source;
 - vi. a description of the air pollution control equipment or method for each emission point, including each control device or method for each HAP and the control efficiency (percent) for each control device or method; and
 - vii. a statement of whether or not the permittee has complied with the requirements of the relevant Subpart.

B. State Only Enforceable Section

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

Z003 (maintenance welding operations);
Z004 (maintenance painting operations);
F002 (storage piles); and
F009 (screening and material handling operations).

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

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Paved/Unpaved Roadways & Parking Lots (F001)

Activity Description: Vehicle travel on Lime Plant paved and unpaved roadways and parking lots.

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
paved roadways and parking areas	OAC rule 3745-17-07(B)(4)	no visible particulate emissions (PE) from paved roadways except for 6 minutes during any 60-minute period
	OAC rules 3745-17-08(B)(8) and (B)(9)	reasonably available control measures that are sufficient to minimize or eliminate visible PE of fugitive dust from paved roadways See Sections A.I.2.a, A.I.2.c, A.I.2.d, and A.I.2.f through A.I.2.j below.
unpaved roadways and parking areas	OAC rule 3745-17-07(B)(5)	no visible PE from unpaved roadways except for 13 minutes during any 60-minute period
	OAC rules 3745-17-08(B)(2) and (B)(9)	reasonably available control measures that are sufficient to minimize or eliminate visible PE of fugitive dust from unpaved roadways See Sections A.1.2.b and A.I.2.e through A.I.2.k below.

2. Additional Terms and Conditions

- 2.a The paved roadways and parking areas that are covered by this permit and subject to the requirements of OAC rules 3745-17-07(B)(4) and 3745-17-08(B)(8) and (B)(9) are listed below:

Paved Roadways: all lime plant paved roadways

Paved Parking Areas: all lime plant paved parking areas

- 2.b The unpaved roadways and parking areas that are covered by this permit and subject to the requirements of OAC rules 3745-17-07(B)(5) and 3745-17-08(B)(2) and (B)(9) are listed below:

Unpaved Roadways: all lime plant unpaved roadways

Unpaved Parking Areas: all lime plant unpaved parking lots

- 2.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 vacuum sweeping, and/or water flushing at sufficient treatment frequencies to ensure compliance, and speed limit restrictions (10 mph). Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- 2.d The permittee shall employ reasonably available control measures on the unpaved shoulders of all paved roadways 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 shoulders of all paved roadways by watering, oiling (except not with used oil as defined in OAC Chapter 3745-279), and/or chemical stabilization at sufficient treatment frequencies and speed limit restrictions (10 mph) to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- 2.e 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 by watering, oiling (except not with used oil as defined in OAC Chapter 3745-279), and/or chemical stabilization at sufficient treatment frequencies and speed limit restrictions (10 mph) to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- 2.f 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.
- 2.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.

2. Additional Terms and Conditions (continued)

- 2.h The permittee shall promptly remove, in such a manner as to minimize or prevent resuspension, earth and/or other material from paved streets onto which such material has been deposited by trucking or earth moving equipment or erosion by water or other means.
- 2.i Open-bodied vehicles transporting materials likely to become airborne shall have such materials covered at all times if the control measure is necessary for the materials being transported.
- 2.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.

II. Operational Restrictions

- 1. The permittee shall only apply virgin oil for the suppression of fugitive dust.
- 2. When the permittee uses oil for the suppression of fugitive dust, the following restrictions shall apply:
 - i. oils shall be applied in such a manner as to prevent pollution of waters of the State as required by the Ohio Revised Code, Section 6111;
 - ii. oils shall be applied only to unpaved road and parking lot surfaces, and only between sunrise and sundown (daylight hours);
 - iii. oils shall not be applied to a water-saturated surface and not to surfaces on days of predicted rainfall events;
 - iv. oils shall not be applied at an application rate that allows pooling of liquid;
 - v. oils shall not be applied to the same surfaces more frequently than twice per week;
 - vi. the application of oils shall not cause runoff from the application surface;
 - vii. oils shall not be applied to vegetation near or adjacent to surfaces being treated;
 - viii. oils shall not be applied within 12 feet of structures crossing bodies of water or drainage ditches;
 - ix. the discharge of oils must stop when the applicator vehicle stops;
 - x. the applicator vehicle must be moving at least 5 mph at all times while the oils are being applied;
 - xi. the applicator vehicle discharge valve shall be locked closed between the oil collection point and the specific surfaces that have been approved for oil application;
 - xii. any valves that provide for tank drainage other than through the spreading bar must be locked closed during oil application and transport; and
 - xiii. the angle of discharge from the applicator vehicle spreader bar shall not be greater than 60 degrees from the perpendicular to the unpaved surface.

III. Monitoring and/or Record Keeping Requirements

- 1. Except as otherwise provided in this section, the permittee shall perform inspections of each of the paved and unpaved roadway segments and parking areas in accordance with the following frequencies:
 - Paved Roadways and Parking Areas: all paved roadways and parking areas
 - Minimum Inspection Frequency: daily
 - Unpaved Roadways and Parking Areas: all unpaved roadways and parking areas
 - Minimum Inspection Frequency: daily
- 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.
- 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;
 - 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 4.d shall be kept separately for (1) the paved roadways and parking areas and (2) 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.
- 4. The permittee shall obtain an analysis of the oil used for the suppression of fugitive dust from the supplier and a certification that it is not classified as a "waste" or "used" oil (as defined in OAC Chapter 3745-279).

IV. Reporting Requirements

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

IV. Reporting Requirements (continued)

2. The deviation reports shall be submitted in accordance with paragraph A.1.c.ii of the General Terms and Conditions of this permit.

V. Testing Requirements

1. Compliance with the emission limitations specified in Section A.I.1 shall be determined in accordance with the following methods:

- 1.a Emission Limitation: no visible PE from paved roadways except for 6 minutes during any 60-minute period

Applicable Compliance Method: Compliance with the visible PE limitation for the paved roadways and parking areas specified in Section A of this permit 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.

- 1.b Emission Limitation: no visible PE from unpaved roadways except for 13 minutes during any 60-minute period

Applicable Compliance Method: Compliance with the visible PE limitation for the unpaved roadways and parking areas specified in Section A of this permit 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.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

**Operations, Property,
and/or Equipment**

**Applicable Rules/
Requirements**

**Applicable Emissions
Limitations/Control
Measures**

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Finished Product Unloading Operations (F005)

Activity Description: Unloading of finished product from loadout spout to either trucks or railcars.

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
lime plant transfer equipment and loadouts, equipped with two baghouses	OAC rule 3745-17-07(B)(1)	Visible particulate emissions (PE) of fugitive dust shall not exceed 20% opacity, as a 3-minute average, except as provided by rule. reasonably available control measures that are sufficient to minimize or eliminate visible PE of fugitive dust (See Section A.1.2.b.)
	OAC rule 3745-17-08(B)(3)	

2. Additional Terms and Conditions

- 2.a The material handling operations that are associated with this emissions unit and are subject to the emission limitation and control requirements specified in Section A.1 are as follows:

Emissions Point: lime bin #1
 Equipment Type: storage bin

Emissions Point: lime bin #2
 Equipment Type: storage bin

Emissions Point: lime bin #3
 Equipment Type: storage bin

Emissions Point: lime bin #4
 Equipment Type: storage bin

Emissions Point: lime bin #5
 Equipment Type: storage bin

2. Additional Terms and Conditions (continued)

Emissions Point: lime bin #6
Equipment Type: storage bin

Emissions Point: lime bin #7
Equipment Type: storage bin

Emissions Point: lime bin #8
Equipment Type: storage bin

Emissions Point: lime bin #9
Equipment Type: storage bin

Emissions Point: lime bin #10
Equipment Type: storage bin

Emissions Point: lime bin #11
Equipment Type: storage bin

Emissions Point: 16M bin#1
Equipment Type: storage bin

Emissions Point: 16M bin #2
Equipment Type: storage bin

Emissions Point: 16M bin #3
Equipment Type: storage bin

Emissions Point: conveyor 2 to storage bin 1
Equipment Type: transfer point

Emissions Point: conveyor 2 to storage bin 2
Equipment Type: transfer point

Emissions Point: conveyor 2 to storage bin 3
Equipment Type: transfer point

Emissions Point: conveyor 2 to storage bin 6
Equipment Type: transfer point

Emissions Point: screw conveyor 32 to storage bin 8
Equipment Type: transfer point

Emissions Point: screw conveyor 32 to storage bin 9
Equipment Type: transfer point

Emissions Point: screw conveyor 22 to storage bin 1
Equipment Type: transfer point

Emissions Point: screw conveyor 23 to storage bin 2
Equipment Type: transfer point

Emissions Point: elevator 5 to storage bin 4
Equipment Type: transfer point

2. Additional Terms and Conditions (continued)

Emissions Point: elevator 5 to storage 5
Equipment Type: transfer point

Emissions Point: screw conveyor 31 to storage bin 7
Equipment Type: transfer point

Emissions Point: storage bin 1 to load out spout 1
Equipment Type: transfer point

Emissions Point: storage bin 1 to screw conveyor 24
Equipment Type: transfer point

Emissions Point: storage bin 2 to load out spout 3
Equipment Type: transfer point

Emissions Point: storage bin 2 to screw conveyor 24
Equipment Type: transfer point

Emissions Point: storage bin 1 to load out spout 2
Equipment Type: transfer point

Emissions Point: storage bin 2 to load out spout 2
Equipment Type: transfer point

Emissions Point: storage bin 3 to load out spout 4
Equipment Type: transfer point

Emissions Point: storage bin 4 to load out spout 5
Equipment Type: transfer point

Emissions Point: storage bin 5 to load out spout 6
Equipment Type: transfer point

Emissions Point: storage bin 6 to load out spout 7
Equipment Type: transfer point

Emissions Point: storage bin 7 to load out spout 8
Equipment Type: transfer point

Emissions Point: storage bin 8 to load out spout 8
Equipment Type: transfer point

Emissions Point: storage bin 9 to load out spout 8
Equipment Type: transfer point

Emissions Point: storage bin 10 to load out spout 9
Equipment Type: transfer point

Emissions Point: storage bin 11 to load out spout 10
Equipment Type: transfer point

Emissions Point: conveyor 5 to load out spout 11
Equipment Type: transfer point

2. Additional Terms and Conditions (continued)

Emissions Point: 16M bin 1 to load out spout 12
Equipment Type: transfer point

Emissions Point: 16M bin 2 to load out spout 12
Equipment Type: transfer point

Emissions Point: 16M bin 3 to load out spout 12
Equipment Type: transfer point

Emissions Point: load out spout 1
Equipment Type: vacuum spout for load out of pebble to truck

Emissions Point: load out spout 2
Equipment Type: midwest spout for load out of pebble to rail

Emissions Point: load out spout 3
Equipment Type: vacuum spout for load out of pebble to truck

Emissions Point: load out spout 4
Equipment Type: midwest spout for load out of pebble to truck

Emissions Point: load out spout 5
Equipment Type: midwest spout for load out of 16M to truck

Emissions Point: load out spout 6
Equipment Type: midwest spout for load out of 16M to truck

Emissions Point: load out spout 7
Equipment Type: midwest spout for load out of 200M/pebble to truck

Emissions Point: load out spout 8
Equipment Type: midwest spout for load out of 200M/40M to truck or rail

Emissions Point: load out spout 9
Equipment Type: midwest spout for load out of hydrate to truck

Emissions Point: load out spout 10
Equipment Type: midwest spout for load out of hydrate to truck

Emissions Point: load out spout 11
Equipment Type: midwest spout for load out of hydrate to rail

Emissions Point: load out spout 12
Equipment Type: midwest spout for load out of 16M to rail

Emissions Point: small hydrate bins to storage bin 10
Equipment Type: transfer point

Emissions Point: small hydrate bins to storage bin 11
Equipment Type: transfer point

2.b The permittee shall employ reasonably available control measures (RACM) at all times for the control of fugitive dust emissions associated with this emissions unit. The following control techniques shall be implemented to reduce fugitive dust emissions:

i. the use of hooding, retractable loading spouts and building enclosures shall be employed at all material handling points associated with the bins and at loadout spouts 1 through 12 to minimize or eliminate visible PE of fugitive dust at the point(s) of capture to the extent possible with good engineering design; and

ii. all fugitive dust captured at bin vents of lime bins #10 and #11, and at loadouts of bins 1 through 12, and 16M bins 1 through 3 shall be vented to the baghouse, which shall achieve an outlet loading of not greater than 0.030 grain of PE per dry standard cubic foot (dscf) of exhaust gases or no visible PE from the baghouse exhaust stack, whichever is less stringent.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible PE from the baghouses (F005-BH and F005a-BH) serving this emissions unit. The presence or absence of any visible PE shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the location and color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any visible emission incident; and
 - e. any corrective actions taken to eliminate the visible emissions.

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

2. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible PE 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 PE of fugitive dust 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.

IV. Reporting Requirements

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

V. Testing Requirements

1. Compliance with the emission limitations specified in Section A.I.1 shall be determined in accordance with the following methods:
 - 1.a Emission Limitation: 0.030 grain of PE/dscf

Applicable Compliance Method: If required, the permittee shall demonstrate compliance with the PE grain loading limitation through emission tests performed in accordance with OAC rule 3745-17-03(B)(7).
 - 1.b Emission Limitation: Visible PE of fugitive dust shall not exceed 20% opacity, as a 3-minute average, except as specified by rule.

Applicable Compliance Method: Compliance with the visible PE limitation of fugitive dust shall be determined by the test method and procedures specified in OAC rule 3745-17-03(B)(3).

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

**Operations, Property,
and/or Equipment**

**Applicable Rules/
Requirements**

**Applicable Emissions
Limitations/Control
Measures**

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Crushing, Screening, and Material Handling (F008)

Activity Description: Crushing, screening, and material handling operations associated with processing of raw materials and finished products.

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
secondary crushing, screening, and material handling with one baghouse	OAC rule 3745-17-07(B)(1) OAC rule 3745-17-08(B)(3)	Visible particulate emissions (PE) of fugitive dust shall not exceed 20% opacity, as a 3-minute average, except as specified by rule. reasonably available control measures that are sufficient to minimize or eliminate visible PE of fugitive dust (See Section A.1.2.b.)

2. Additional Terms and Conditions

- 2.a The material handling operations that are associated with this emissions unit and are subject to the emission limitation and control requirements specified in Section A.1 are as follows:

Emissions Point: kiln storage bin #7 to feeder 7
 Equipment Type: transfer point, F008-1

Emissions Point: kiln storage bin #8 to feeder 8
 Equipment Type: transfer point, F008-2

Emissions Point: kiln storage bin #9 to feeder 9
 Equipment Type: transfer point, F008-3

Emissions Point: kiln storage bin #9.5 to feeder 9.5
 Equipment Type: transfer point, F008-4

Emissions Point: kiln storage bin #10 to feeder 10
 Equipment Type: transfer point, F008-5

2. Additional Terms and Conditions (continued)

Emissions Point: kiln storage bin #10.5 to feeder 10.5
Equipment Type: transfer point, F008-6

Emissions Point: kiln storage bin #11 to feeder 11
Equipment Type: transfer point, F008-7

Emissions Point: kiln storage bin #11.5 to feeder 11.5
Equipment Type: transfer point, F008-8

Emissions Point: kiln storage bin #12 to feeder 12
Equipment Type: transfer point, F008-9

Emissions Point: feeder 7 to AC 1
Equipment Type: transfer point, F008-10

Emissions Point: feeder 8 to AC 1
Equipment Type: transfer point, F008-11

Emissions Point: feeder 9 to AC 1
Equipment Type: transfer point, F008-12

Emissions Point: feeder 9.5 to AC 1
Equipment Type: transfer point, F008-13

Emissions Point: feeder 10 to AC 1
Equipment Type: transfer point, F008-14

Emissions Point: feeder 10.5 to AC 1
Equipment Type: transfer point, F008-15

Emissions Point: feeder 11 to AC 1
Equipment Type: transfer point, F008-16

Emissions Point: feeder 11.5 to AC 1
Equipment Type: transfer point, F008-17

Emissions Point: feeder 12 to AC 1
Equipment Type: transfer point, F008-18

Emissions Point: storage bin to feeder 4 (option)
Equipment Type: transfer point, F008-19

Emissions Point: storage bin to AC 2 (option)
Equipment Type: transfer point, F008-20

Emissions Point: storage bin to AC 2 (option)
Equipment Type: transfer point, F008-21

Emissions Point: AC 1 to conveyor 7
Equipment Type: transfer point, F008-22

Emissions Point: conveyor 7 to elevator 9
Equipment Type: transfer point, F008-23

Emissions Point: screen 3
Equipment Type: screen, F008-24

2. Additional Terms and Conditions (continued)

Emissions Point: elevator 9 to screen 3
Equipment Type: transfer point, F008-25

Emissions Point: screen 3 to AC 3
Equipment Type: transfer point, F008-26

Emissions Point: screen 3 to surge bin
Equipment Type: transfer point, F008-27

Emissions Point: screen 3 to screw conveyor 1
Equipment Type: transfer point, F008-28

Emissions Point: AC 2 to AC 3
Equipment Type: transfer point, F008-29

Emissions Point: feeder 4 to AC 3
Equipment Type: transfer point, F008-30

Emissions Point: AC 3 to elevator 1
Equipment Type: transfer point, F008-31

Emissions Point: elevator 1 to screw conveyor 2
Equipment Type: transfer point, F008-32

Emissions Point: screen 4
Equipment Type: screen, F008-33

Emissions Point: screw conveyor 2 to screen 4
Equipment Type: transfer point, F008-34

Emissions Point: screen 4 to conveyor 1
Equipment Type: transfer point, F008-35

Emissions Point: conveyor 1 to conveyor 2
Equipment Type: transfer point, F008-36

Emissions Point: screen 4 to conveyor 5
Equipment Type: transfer point, F008-41

Emissions Point: screen 4 to screw conveyor 3
Equipment Type: transfer point, F008-42

Emissions Point: screw conveyor 2 to screw conveyor 3
Equipment Type: transfer point, F008-43

Emissions Point: screw conveyor 3 to east raw bin #2
Equipment Type: transfer point, F008-44

Emissions Point: east raw bin #2 to feeder 6
Equipment Type: transfer point, F008-45

Emissions Point: feeder 6 to screw conveyor 4
Equipment Type: transfer point, F008-46

Emissions Point: screw conveyor 4 to elevator 2
Equipment Type: transfer point, F008-47

2. Additional Terms and Conditions (continued)

Emissions Point: elevator 2 to surge bin
Equipment Type: transfer point, F008-48

Emissions Point: feeder 10 to HM
Equipment Type: transfer point, F008-50

Emissions Point: HM to screw conveyor 1
Equipment Type: transfer point, F008-51

Emissions Point: screw conveyor 1 to elevator 3
Equipment Type: transfer point, F008-52

Emissions Point: elevator 3 to screw conveyor 5
Equipment Type: transfer point, F008-53

Emissions Point: screw conveyor 5 to air separator
Equipment Type: transfer point, F008-54

Emissions Point: screen 5
Equipment Type: screen, F008-55

Emissions Point: screw conveyor 5 to screen 5 (option)
Equipment Type: transfer point, F008-56

Emissions Point: screw conveyor 5 to 50 ton bin (option)
Equipment Type: transfer point, F008-57

Emissions Point: screen 5 to 50 ton bin
Equipment Type: transfer point, F008-58

Emissions Point: screen 5 to east raw bin #2
Equipment Type: transfer point, F008-59

Emissions Point: 50 ton bin to screw conveyor 7
Equipment Type: transfer point, F008-60

Emissions Point: screw conveyor 7 to elevator 4
Equipment Type: transfer point, F008-61

Emissions Point: elevator 4 to screw conveyor 8
Equipment Type: transfer point, F008-62

Emissions Point: screw conveyor 8 to screen surge bin
Equipment Type: transfer point, F008-63

Emissions Point: screen surge bin to west raw bin #1
Equipment Type: transfer point, F008-64

Emissions Point: screen surge bin to screw conveyor 9 (option)
Equipment Type: transfer point, F008-65

Emissions Point: screen surge bin to screw conveyor 11 (option)
Equipment Type: transfer point, F008-66

Emissions Point: screen surge bin to screw conveyor 13 (option)
Equipment Type: transfer point, F008-67

2. Additional Terms and Conditions (continued)

Emissions Point: screw conveyor 9 to screw conveyor 10
Equipment Type: transfer point, F008-68

Emissions Point: screen 10
Equipment Type: screen, F008-69

Emissions Point: screw conveyor 10 to screen 10
Equipment Type: transfer point, F008-70

Emissions Point: screen 10 to screw conveyor 16
Equipment Type: transfer point, F008-71

Emissions Point: screen 10 to screw conveyor 17
Equipment Type: transfer point, F008-72

Emissions Point: screen 10 to screw conveyor 21
Equipment Type: transfer point, F008-73

Emissions Point: screw conveyor 13 to screw conveyor 14
Equipment Type: transfer point, F008-74

Emissions Point: screw conveyor 14 to screw conveyor 15
Equipment Type: transfer point, F008-75

Emissions Point: screen 8
Equipment Type: screen, F008-76

Emissions Point: screen 9
Equipment Type: screen, F008-77

Emissions Point: screw conveyor 15 to screen 8
Equipment Type: transfer point, F008-78

Emissions Point: screw conveyor 15 to screen 9
Equipment Type: transfer point, F008-79

Emissions Point: screen 8 to screw conveyor 17
Equipment Type: transfer point, F008-80

Emissions Point: screen 9 to screw conveyor 17
Equipment Type: transfer point, F008-81

Emissions Point: screen 8 to screw conveyor 21
Equipment Type: transfer point, F008-82

Emissions Point: screen 9 to screw conveyor 21
Equipment Type: transfer point, F008-83

Emissions Point: screen 8 to screw conveyor 23
Equipment Type: transfer point, F008-84

Emissions Point: screen 9 to screw conveyor 23
Equipment Type: transfer point, F008-85

Emissions Point: screw conveyor 11 to screw conveyor 12
Equipment Type: transfer point, F008-86

2. Additional Terms and Conditions (continued)

Emissions Point: screen 6
Equipment Type: screen, F008-87

Emissions Point: screen 7
Equipment Type: screen, F008-88

Emissions Point: screw conveyor 12 to screen 6
Equipment Type: transfer point, F008-89

Emissions Point: screw conveyor 12 to screen 7
Equipment Type: transfer point, F008-90

Emissions Point: screen 6 to screw conveyor 17
Equipment Type: transfer point, F008-91

Emissions Point: screen 7 to screw conveyor 17
Equipment Type: transfer point, F008-92

Emissions Point: screen 6 to screw conveyor 22
Equipment Type: transfer point, F008-95

Emissions Point: screen 7 to screw conveyor 22
Equipment Type: transfer point, F008-96

Emissions Point: screw conveyor 16 to 16M bin #3
Equipment Type: transfer point, F008-97

Emissions Point: screw conveyor 17 to screw conveyor 18
Equipment Type: transfer point, F008-98

Emissions Point: screw conveyor 18 to screw conveyor 19
Equipment Type: transfer point, F008-99

Emissions Point: screw conveyor 19 to screw conveyor 20
Equipment Type: transfer point, F008-100

Emissions Point: screw conveyor 20 to screw conveyor 32
Equipment Type: transfer point, F008-101

Emissions Point: screw conveyor 21 to east raw bin #2
Equipment Type: transfer point, F008-104

Emissions Point: screw conveyor 24 to screw conveyor 33
Equipment Type: transfer point, F008-107

Emissions Point: screw conveyor 33 to elevator 5
Equipment Type: transfer point, F008-108

Emissions Point: air separator to screw conveyor 6
Equipment Type: transfer point, F008-111

Emissions Point: screw conveyor 6 to screw conveyor 19
Equipment Type: transfer point, F008-112

Emissions Point: screw conveyor 6 to screw conveyor 30 (option)
Equipment Type: transfer point, F008-113

2. Additional Terms and Conditions (continued)

Emissions Point: screw conveyor 6 to west raw bin #1 (option)
Equipment Type: transfer point, F008-114

Emissions Point: screw conveyor 30 to screw conveyor 31
Equipment Type: transfer point, F008-115

Emissions Point: east raw bin #2 to elevator 6
Equipment Type: transfer point, F008-117

Emissions Point: west raw bin #1 to elevator 6
Equipment Type: transfer point, F008-118

Emissions Point: elevator 6 to east raw bin #2
Equipment Type: transfer point, F008-119

Emissions Point: elevator 6 to west raw bin #1
Equipment Type: transfer point, F008-120

Emissions Point: elevator 6 to conveyor 3 (option)
Equipment Type: transfer point, F008-121

Emissions Point: elevator 6 to conveyor 4 (option)
Equipment Type: transfer point, F008-122

Emissions Point: conveyor 3 to #1 hydrator
Equipment Type: transfer point, F008-123

Emissions Point: #1 hydrator to screw conveyor 27
Equipment Type: transfer point, F008-124

Emissions Point: conveyor 4 to #2 hydrator
Equipment Type: transfer point, F008-125

Emissions Point: #2 hydrator to screw conveyor 25
Equipment Type: transfer point, F008-126

Emissions Point: screw conveyor 25 to screw conveyor 26
Equipment Type: transfer point, F008-127

Emissions Point: screw conveyor 26 to screw conveyor 27
Equipment Type: transfer point, F008-128

Emissions Point: screw conveyor 27 to elevator 7
Equipment Type: transfer point, F008-129

Emissions Point: elevator 7 to screw conveyor 28
Equipment Type: transfer point, F008-130

Emissions Point: screw conveyor 28 to hydrate bin #1
Equipment Type: transfer point, F008-131

Emissions Point: screw conveyor 28 to hydrate bin #2
Equipment Type: transfer point, F008-132

Emissions Point: screw conveyor 28 to hydrate bin #3
Equipment Type: transfer point, F008-133

2. Additional Terms and Conditions (continued)

- Emissions Point: hydrate bin #1 to screw conveyor 29
Equipment Type: transfer point, F008-134
- Emissions Point: hydrate bin #2 to screw conveyor 29
Equipment Type: transfer point, F008-135
- Emissions Point: hydrate bin #3 to screw conveyor 29
Equipment Type: transfer point, F008-136
- Emissions Point: screw conveyor 29 to elevator 8
Equipment Type: transfer point, F008-137
- Emissions Point: elevator 8 to feed bin
Equipment Type: transfer point, F008-138
- Emissions Point: crusher 1
Equipment Type: crusher, F008-139
- Emissions Point: feed bin to crusher 1
Equipment Type: transfer point, F008-140
- Emissions Point: crusher 1 to cyclone
Equipment Type: transfer point, F008-141
- Emissions Point: cyclone to screw conveyor 34
Equipment Type: transfer point, F008-142
- Emissions Point: cyclone to crusher 1
Equipment Type: transfer point, F008-143
- Emissions Point: screw conveyor 34 to small hydrate bin #1
Equipment Type: transfer point, F008-144
- Emissions Point: screw conveyor 34 to small hydrate bin #2
Equipment Type: transfer point, F008-145
- Emissions Point: kiln #1 to cooler #1
Equipment Type: transfer point, F008-152
- Emissions Point: cooler #1 to feeder 2
Equipment Type: transfer point, F008-153
- Emissions Point: feeder 2 to conveyor 8
Equipment Type: transfer point, F008-154
- Emissions Point: conveyor 8 to conveyor 4
Equipment Type: transfer point, F008-155
- Emissions Point: kiln #2 to cooler #2
Equipment Type: transfer point, F008-159
- Emissions Point: cooler #2 to feeder 3
Equipment Type: transfer point, F008-160
- Emissions Point: feeder 3 to conveyor 7
Equipment Type: transfer point, F008-161
- Emissions Point: conveyor 7 to conveyor 4
Equipment Type: transfer point, F008-162
- Emissions Point: conveyor 4 to conveyor 5
Equipment Type: transfer point, F008-163
- Emissions Point: conveyor 5 to conveyor 6
Equipment Type: transfer point, F008-164
- Emissions Point: conveyor 6 to kiln storage bin 7
Equipment Type: transfer point, F008-165
- Emissions Point: conveyor 6 to kiln storage bin 8
Equipment Type: transfer point, F008-166
- Emissions Point: conveyor 6 to kiln storage bin 9
Equipment Type: transfer point, F008-167
- Emissions Point: conveyor 6 to kiln storage bin 9.5
Equipment Type: transfer point, F008-168
- Emissions Point: conveyor 6 to kiln storage bin 10
Equipment Type: transfer point, F008-169
- Emissions Point: conveyor 6 to kiln storage bin 10.5
Equipment Type: transfer point, F008-170
- Emissions Point: conveyor 6 to kiln storage bin 11
Equipment Type: transfer point, F008-171
- Emissions Point: conveyor 6 to kiln storage bin 11.5
Equipment Type: transfer point, F008-172
- Emissions Point: conveyor 6 to kiln storage bin 12
Equipment Type: transfer point, F008-173

2. Additional Terms and Conditions (continued)

- 2.b** The permittee shall employ reasonably available control measures (RACM) at all times for the control of fugitive dust emissions associated with this emissions unit. The following control techniques shall be implemented to reduce fugitive dust emissions:
- i. the use of hooding and building enclosures around the kiln raw material storage bins (during loading operations) to minimize or eliminate visible PE of fugitive dust at the point(s) of capture to the extent possible with good engineering design;
 - ii. all fugitive dust captured by the hooding and the building enclosures shall be vented to the baghouse, which shall achieve an outlet loading of not greater than 0.030 grain of PE per dry standard cubic foot (dscf) of exhaust gases or no visible PE from the baghouse exhaust stack, whichever is less stringent; and
 - iii. the use of a building enclosure and naturally occurring high moisture content* for the raw material storage, the secondary crushing, screening, material handling operations, and the finished product storage.

* If the moisture content falls below an acceptable level, watering of the material shall be implemented to ensure compliance.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible PE from the baghouse (LOAD-BH) serving this emissions unit. The presence or absence of any visible PE shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the location and color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any visible emission incident; and
 - e. any corrective actions taken to eliminate the visible emissions.
2. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible PE of fugitive dust from all the egress points (i.e., building windows, doors, roof monitors, etc.) serving this emissions unit. The presence or absence of any visible PE of fugitive dust 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.

IV. Reporting Requirements

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

V. Testing Requirements

1. Compliance with the emission limitations specified in Section A.I.1 shall be determined in accordance with the following methods:
 - 1.a Emission Limitation: 0.030 grain of PE/dscf or no visible PE (from the baghouse)
Applicable Compliance Method: If required, the permittee shall demonstrate compliance with the PE limitation above in accordance with OAC rule 3745-17-03(B)(7).
 - 1.b Emission Limitation: Visible PE of fugitive dust shall not exceed 20% opacity, as a 3-minute average, except as specified by rule.
Applicable Compliance Method: Compliance with the visible PE limitation of fugitive dust shall be determined by the test method and procedures specified in OAC rule 3745-17-03(B)(3).

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

**Operations, Property,
and/or Equipment**

**Applicable Rules/
Requirements**

**Applicable Emissions
Limitations/Control
Measures**

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Calcimatic Lime Kiln #1 (P003)

Activity Description: Calcination of limestone at high temperature using a calcimatic (rotary hearth) kiln.

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
coal-fired and/or natural gas-fired calcimatic lime kiln #1, with cyclone and venturi scrubber	OAC rule 3745-17-07(A)(1)	Visible particulate emissions (PE) from any stack shall not exceed 20% opacity, as a 6-minute average, except as specified by rule.
	OAC rule 3745-17-11(B)(1)	53.1 lbs of PE/hr (based on OAC rule 3745-17-11(B), Figure II)
	OAC rule 3745-18-06(E)	211 lbs of sulfur dioxide (SO ₂) emissions/hr
		See Section A.I.2.b below.

2. Additional Terms and Conditions

- 2.a Emissions units P003 and P004 are subject to the "grouping" provisions of OAC rule 3745-17-11(A)(3). Therefore, the PE from emissions units P003 and P004, combined shall not exceed 53.1 lbs of PE/hour.
- 2.b The permittee shall employ a cyclone and venturi scrubber to control all PE from this emissions unit.
- 2.c When this emissions unit is using natural gas as its only fuel source actual SO₂ emissions are negligible (the combustion of natural gas produces negligible amounts of SO₂ emissions).

II. Operational Restrictions

1. The pressure drop across the venturi scrubber shall be continuously maintained at a value of not less than the value determined during the most recent emission test that demonstrated this emissions unit was in compliance.
2. The scrubber water flow rate shall be continuously maintained at a value of not less than 1,200 gallons per minute at all times while this emissions unit is in operation.
3. The permittee shall burn only natural gas and/or coal in this emissions unit.
4. The quality of coal burned in this emissions unit shall meet a sulfur content that is equal to or less than the sulfur content (in lbs/mmBtu) determined during the most recent emission testing that determined this emissions unit was in compliance.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect or require the coal supplier to collect a representative grab sample of each shipment of coal that is received for burning in this emissions unit. At the end of each calendar month, the representative samples of coal from all shipments of coal that were received during that calendar month shall each be combined into one composite sample.

Each monthly composite sample of coal shall be analyzed for sulfur content (percent) and heat content (Btu/pound of coal). The permittee shall perform or require the supplier to perform the analyses for sulfur content and heat content in accordance with the most recent version of the following ASTM methods: ASTM method D3177, Total Sulfur in the Analysis Sample of Coal and Coke or ASTM method D4239, Sulfur in the Analysis Sample of Coal and Coke Using High Temperature Tube Furnace Combustion Methods; and ASTM method D5865, Gross Calorific Value of Coal and Coke, respectively. Alternative, equivalent methods may be used upon written approval from Ohio EPA, Northwest District Office.

2. The permittee shall maintain monthly records of the total quantity of coal received, the results of the analyses for sulfur content and heat content, and the calculated SO₂ emission rate, in lbs of SO₂ emissions/mmBtu.
3. For each day during which the permittee burns a fuel other than natural gas and/or coal, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
4. The permittee shall properly operate and maintain equipment to continuously and accurately monitor the static pressure drop across the scrubber and the scrubber water flow rate while this emissions unit is in operation. The monitoring devices and any recorders shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals.
5. The permittee shall collect and record the following information each day for this emissions unit:
 - a. the pressure drop across the scrubber, in inches of water, on a once/shift basis;
 - b. the scrubber water flow rate, in gallons/minute, on a once/shift basis (the permittee may determine the water flow rate based on the scrubber pump amperage, which is directly proportional to flow rate); and
 - c. a log of all downtime periods for the capture (collection) system, control device, and monitoring equipment when the associated emissions unit was in operation.

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify all periods of time during which the following scrubber parameters were not maintained at or above the required levels:
 - a. the static pressure drop across the scrubber; and
 - b. the scrubber water flow rate.

The deviation reports shall be submitted in accordance with paragraph A.1.c.ii of the General Terms and Conditions of this permit.

2. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas and/or coal was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.
3. The permittee shall notify the Ohio EPA, Northwest District Office, in writing, of any exceedance of the sulfur content determined during the most recent emissions test that demonstrated this emissions unit was in compliance. The notification shall include a copy of such record and shall be sent to the Ohio EPA, Northwest District Office within 45 days after the exceedance occurs.
4. The permittee shall submit quarterly summaries that specify all downtime periods for the capture (collection) system, control device, and monitoring equipment when the associated emissions unit was in operation. The reports shall be submitted by March 31, June 30, September 30 and December 31 of each year and shall cover the previous calendar quarter.

V. Testing Requirements

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

- a. The emission testing shall be conducted within 3 months after issuance of this permit and annually each calendar year thereafter.
- b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rates for PE and SO₂ emissions.
- c. The following test methods shall be employed to demonstrate compliance with the allowable mass emission limitations:

PE: Methods 1-5 of 40 CFR Part 60, Appendix A and the procedures specified in OAC rule 3745-17-03(B)(10)

SO₂ Emissions: Methods 1-4 and 6 of 40 CFR Part 60, Appendix A

- d. The tests shall be conducted while this emissions unit and emissions unit P004 are operating at or near their maximum capacities, unless otherwise specified or approved by the Ohio EPA, Northwest District Office.
2. 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, Northwest 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, Northwest District Office refusal to accept the results of the emission test(s).

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

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

3. During the emission testing of this emissions unit, the following additional information shall be recorded:
 - a. the water flow rates through the scrubber, every 5 minutes during each test run;
 - b. the pressure drop across the scrubber, in inches of water, every 5 minutes during each test run;
 - c. the tons of product produced; and
 - d. the sulfur content of the coal, in percent by weight.
4. Compliance with the emission limitations specified in Section A.I.1 shall be determined in accordance with the following methods:
 - 4.a Emission Limitation: 53.1 lbs of PE/hr, for emissions units P003 and P004, combined (based on OAC rule 3745-17-11(B), Figure II)

Applicable Compliance Method: Compliance with the hourly PE limitation shall be based on the results of emission testing conducted in accordance with OAC rule 3745-17-03(B)(10).
 - 4.b Emission Limitation: Visible PE from any stack shall not exceed 20% opacity, as a 6-minute average, except as specified by rule.

Applicable Compliance Method: Compliance with the visible PE limitation shall be determined by the method specified in 40 CFR Part 60, Appendix A, Test Method 9 pursuant to OAC rule 3745-17-03(B)(1).
 - 4.c Emission Limitation: 211 lbs of SO₂ emissions/hr

Applicable Compliance Method: Compliance with the hourly SO₂ limitation shall be based on the results of emission testing conducted in accordance with Methods 1 - 4 and 6 of 40 CFR, Part 60, Appendix A.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

**Operations, Property,
and/or Equipment**

**Applicable Rules/
Requirements**

**Applicable Emissions
Limitations/Control
Measures**

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Calcimatic Lime Kiln #2 (P004)

Activity Description: Calcination of limestone at high temperature using a calcimatic (rotary hearth) kiln.

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
coal-fired and/or natural gas-fired calcimatic lime kiln #2, with cyclone and venturi scrubber	OAC rule 3745-17-07(A)(1)	Visible particulate emissions (PE) from any stack shall not exceed 20% opacity, as a 6-minute average, except as specified by rule.
	OAC rule 3745-17-11(B)(1)	53.1 lbs of PE/hr (based on OAC rule 3745-17-11(B), Figure II)
	OAC rule 3745-18-06(E)	244 lbs of sulfur dioxide (SO ₂) emissions/hr
		See Section A.I.2.b below.

2. Additional Terms and Conditions

- 2.a Emissions units P003 and P004 are subject to the "grouping" provisions of OAC rule 3745-17-11(A)(3). Therefore, the PE from emissions units P003 and P004, combined shall not exceed 53.1 lbs of PE/hour.
- 2.b The permittee shall employ a cyclone and venturi scrubber to control all PE from this emissions unit.
- 2.c When this emissions unit is using natural gas as its only fuel source actual SO₂ emissions are negligible (the combustion of natural gas produces negligible amounts of SO₂ emissions).

II. Operational Restrictions

1. The pressure drop across the venturi scrubber shall be continuously maintained at a value of not less than the value determined during the most recent emission test that demonstrated this emissions unit was in compliance.
2. The scrubber water flow rate shall be continuously maintained at a value of not less than 1,200 gallons per minute at all times while this emissions unit is in operation.
3. The permittee shall burn only natural gas and/or coal in this emissions unit.
4. The quality of coal burned in this emissions unit shall meet a sulfur content that is equal to or less than the sulfur content (in lbs/mmBtu) determined during the most recent emission testing that determined this emissions unit was in compliance.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect or require the coal supplier to collect a representative grab sample of each shipment of coal that is received for burning in this emissions unit. At the end of each calendar month, the representative samples of coal from all shipments of coal that were received during that calendar month shall each be combined into one composite sample.

Each monthly composite sample of coal shall be analyzed for sulfur content (percent) and heat content (Btu/pound of coal). The permittee shall perform or require the supplier to perform the analyses for sulfur content and heat content in accordance with the most recent version of the following ASTM methods: ASTM method D3177, Total Sulfur in the Analysis Sample of Coal and Coke or ASTM method D4239, Sulfur in the Analysis Sample of Coal and Coke Using High Temperature Tube Furnace Combustion Methods; and ASTM method D5865, Gross Calorific Value of Coal and Coke, respectively. Alternative, equivalent methods may be used upon written approval from Ohio EPA, Northwest District Office.

2. The permittee shall maintain monthly records of the total quantity of coal received, the results of the analyses for sulfur content and heat content, and the calculated SO₂ emission rate, in lbs of SO₂ emissions/mmBtu.
3. For each day during which the permittee burns a fuel other than natural gas and/or coal, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
4. The permittee shall properly operate and maintain equipment to continuously and accurately monitor the static pressure drop across the scrubber and the scrubber water flow rate while this emissions unit is in operation. The monitoring devices and any recorders shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals.
5. The permittee shall collect and record the following information each day for this emissions unit:
 - a. the pressure drop across the scrubber, in inches of water, on a once/shift basis;
 - b. the scrubber water flow rate, in gallons/minute, on a once/shift basis (the permittee may determine the water flow rate based on the scrubber pump amperage, which is directly proportional to flow rate); and
 - c. a log of all downtime periods for the capture (collection) system, control device, and monitoring equipment when the associated emissions unit was in operation.

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify all periods of time during which the following scrubber parameters were not maintained at or above the required levels:
 - a. the static pressure drop across the scrubber; and
 - b. the scrubber water flow rate.

The deviation reports shall be submitted in accordance with paragraph A.1.c.ii of the General Terms and Conditions of this permit.

2. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas and/or coal was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.
3. The permittee shall notify the Ohio EPA, Northwest District Office, in writing, of any exceedance of the sulfur content determined during the most recent emissions test that demonstrated this emissions unit was in compliance. The notification shall include a copy of such record and shall be sent to the Ohio EPA, Northwest District Office within 45 days after the exceedance occurs.
4. The permittee shall submit quarterly summaries that specify all downtime periods for the capture (collection) system, control device, and monitoring equipment when the associated emissions unit was in operation. The reports shall be submitted by March 31, June 30, September 30 and December 31 of each year and shall cover the previous calendar quarter.

V. Testing Requirements

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

- a. The emission testing shall be conducted within 3 months after issuance of this permit and annually each calendar year thereafter.
- b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rates for PE and SO₂ emissions.
- c. The following test methods shall be employed to demonstrate compliance with the allowable mass emission limitations:

PE: Methods 1-5 of 40 CFR Part 60, Appendix A and the procedures specified in OAC rule 3745-17-03(B)(10)

SO₂ Emissions: Methods 1-4 and 6 of 40 CFR Part 60, Appendix A

- d. The tests shall be conducted while this emissions unit and emissions unit P004 are operating at or near their maximum capacities, unless otherwise specified or approved by the Ohio EPA, Northwest District Office.
2. 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, Northwest 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, Northwest District Office refusal to accept the results of the emission test(s).

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

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

3. During the emission testing of this emissions unit, the following additional information shall be recorded:
 - a. the water flow rates through the scrubber, every 5 minutes during each test run;
 - b. the pressure drop across the scrubber, in inches of water, every 5 minutes during each test run;
 - c. the tons of product produced; and
 - d. the sulfur content of the coal, in percent by weight.
4. Compliance with the emission limitations specified in Section A.I.1 shall be determined in accordance with the following methods:
 - 4.a Emission Limitation: 53.1 lbs of PE/hr, for emissions units P003 and P004, combined (based on OAC rule 3745-17-11(B), Figure II)

Applicable Compliance Method: Compliance with the hourly PE limitation shall be based on the results of emission testing conducted in accordance with OAC rule 3745-17-03(B)(10).
 - 4.b Emission Limitation: Visible PE from any stack shall not exceed 20% opacity, as a 6-minute average, except as specified by rule.

Applicable Compliance Method: Compliance with the visible PE limitation shall be determined by the method specified in 40 CFR Part 60, Appendix A, Test Method 9 pursuant to OAC rule 3745-17-03(B)(1).
 - 4.c Emission Limitation: 244 lbs of SO₂ emissions/hr

Applicable Compliance Method: Compliance with the hourly SO₂ limitation shall be based on the results of emission testing conducted in accordance with Methods 1 - 4 and 6 of 40 CFR, Part 60, Appendix A.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

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

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Lime Hydrator #1 (P007)

Activity Description: Conversion of lime to hydrated lime using water sprays inside an atmospheric hydrator.

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
lime hydrator #1, equipped with a spray chamber	OAC rule 3745-17-07(A)(1) OAC rule 3745-17-11(B)(1)	Visible particulate emissions (PE) from any stack shall not exceed 20% opacity, as a 6-minute average, except as specified by rule. 21.7 lbs of PE/hr (based on OAC rule 3745-17-11(B), Table I)

2. Additional Terms and Conditions

- 2.a The permittee shall employ a spray chamber to control all the PE from this emissions unit.
- 2.b If the emissions testing required for this emissions unit demonstrates that the allowable emissions rate from Figure II is more stringent than 21.7 lbs/hour, the permittee shall comply with the more stringent limitation.

II. Operational Restrictions

1. The water volume flow through the spray chamber (gallons/minute) shall be continuously maintained at a value of not less than the value that was determined during the most recent emission testing that demonstrated that this emissions unit was in compliance.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall properly operate and maintain equipment to continuously and accurately monitor and record the water volume flow through the spray chamber while the emissions unit is in operation. The monitoring devices and recorder(s) shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals.
2. The permittee shall collect and record the following information each day:
 - a. the water volume flow through the spray chamber (gallons/minute), on a once/shift basis; and
 - b. a log of all downtime periods for the capture (collection) system, control device, and monitoring equipment when the associated emissions unit was in operation.

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify all periods of time during which the water volume flow through the spray chamber was not maintained within the required operating range as specified in Section A.II.1. Each report shall be submitted within 30 days after the deviation occurs.
2. The permittee shall submit quarterly summaries that specify all downtime periods for the capture (collection) system, control device, and monitoring equipment when the associated emissions unit was in operation. The reports shall be submitted by March 31, June 30, September 30 and December 31 of each year and shall cover the previous calendar quarter.

V. Testing Requirements

1. The permittee shall conduct, or have conducted, emissions testing for this emissions unit in accordance with the following requirements:
 - a. The emission testing shall be conducted within 3 months after issuance of this permit and within 6 months prior to permit expiration.
 - b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rates for PE.
 - c. The following test methods shall be employed to demonstrate compliance with the allowable mass emission limitation:

PE: Methods 1-5 of 40 CFR Part 60, Appendix A and the procedures specified in OAC rule 3745-17-03(B)(10)
 - d. The tests shall be conducted while this emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Ohio EPA, Northwest District Office.

A PE test also shall be conducted at the inlet of the control device to determine the uncontrolled mass rate of emissions for the emissions unit, for purpose of determining the applicability of Figure II of OAC rule 3745-17-11. For this testing, Methods 1-5 of 40 CFR Part 60, Appendix A and the procedures specified in OAC rule 3745-17-03(B)(10) shall be employed.

V. Testing Requirements (continued)

2. 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, Northwest 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, Northwest District Office refusal to accept the results of the emission test(s).

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

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

3. During the emission testing of this emissions unit, the following additional information shall be recorded:
- a. the water volume flow through the spray chamber (gallons/minute); and
 - b. the tons of product produced.
4. Compliance with the emission limitations specified in Section A.I.1 shall be determined in accordance with the following methods:
- 4.a Emission Limitation: 21.7 lbs of PE/hr (based on OAC rule 3745-17-11(B), Table I)
- Applicable Compliance Method: Compliance with the hourly PE limitation shall be based on the results of emission testing conducted in accordance with OAC rule 3745-17-03(B)(10).
- 4.b Emission Limitation: Visible PE from any stack shall not exceed 20% opacity, as a 6-minute average, except as specified by rule.

Applicable Compliance Method: Compliance with the visible PE limitation shall be determined by the method specified in 40 CFR Part 60, Appendix A, Test Method 9 pursuant to OAC rule 3745-17-03(B)(1).

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

**Operations, Property,
and/or Equipment**

**Applicable Rules/
Requirements**

**Applicable Emissions
Limitations/Control
Measures**

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Lime Hydrator #2 (P017)

Activity Description: Conversion of lime to hydrated lime using water sprays inside an atmospheric hydrator.

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
lime hydrator #2, equipped with a spray chamber	OAC rule 3745-17-07(A)(1) OAC rule 3745-17-11(B)(1)	Visible particulate emissions (PE) from any stack shall not exceed 20% opacity, as a 6-minute average, except as specified by rule. 21.7 lbs of PE/hr (based on OAC rule 3745-17-11(B), Table I)

2. Additional Terms and Conditions

- 2.a The permittee shall employ a spray chamber to control all the PE from this emissions unit.
- 2.b If the emissions testing required for this emissions unit demonstrates that the allowable emissions rate from Figure II is more stringent than 21.7 lbs/hour, the permittee shall comply with the more stringent limitation.

II. Operational Restrictions

1. The water volume flow through the spray chamber (gallons/minute) shall be continuously maintained at a value of not less than the value that was determined during the most recent emission testing that demonstrated that this emissions unit was in compliance.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall properly operate and maintain equipment to continuously and accurately monitor and record the water volume flow through the spray chamber while the emissions unit is in operation. The monitoring devices and recorder(s) shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals.
2. The permittee shall collect and record the following information each day:
 - a. the water volume flow through the spray chamber (gallons/minute), on a once/shift basis; and
 - b. a log of all downtime periods for the capture (collection) system, control device, and monitoring equipment when the associated emissions unit was in operation.

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify all periods of time during which the water volume flow through the spray chamber was not maintained within the required operating range as specified in Section A.II.1. Each report shall be submitted within 30 days after the deviation occurs.
2. The permittee shall submit quarterly summaries that specify all downtime periods for the capture (collection) system, control device, and monitoring equipment when the associated emissions unit was in operation. The reports shall be submitted by March 31, June 30, September 30 and December 31 of each year and shall cover the previous calendar quarter.

V. Testing Requirements

1. The permittee shall conduct, or have conducted, emissions testing for this emissions unit in accordance with the following requirements:
 - a. The emission testing shall be conducted within 3 months after issuance of this permit and within 6 months prior to permit expiration.
 - b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rates for PE.
 - c. The following test methods shall be employed to demonstrate compliance with the allowable mass emission limitation:

PE: Methods 1-5 of 40 CFR Part 60, Appendix A and the procedures specified in OAC rule 3745-17-03(B)(10)
 - d. The tests shall be conducted while this emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Ohio EPA, Northwest District Office.

A PE test also shall be conducted at the inlet of the control device to determine the uncontrolled mass rate of emissions for the emissions unit, for purpose of determining the applicability of Figure II of OAC rule 3745-17-11. For this testing, Methods 1-5 of 40 CFR Part 60, Appendix A and the procedures specified in OAC rule 3745-17-03(B)(10) shall be employed.

V. Testing Requirements (continued)

2. 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, Northwest 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, Northwest District Office refusal to accept the results of the emission test(s).

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

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

3. During the emission testing of this emissions unit, the following additional information shall be recorded:
- a. the water volume flow through the spray chamber (gallons/minute); and
 - b. the tons of product produced.
4. Compliance with the emission limitations specified in Section A.I.1 shall be determined in accordance with the following methods:
- 4.a Emission Limitation: 21.7 lbs of PE/hr (based on OAC rule 3745-17-11(B), Table I)
- Applicable Compliance Method: Compliance with the hourly PE limitation shall be based on the results of emission testing conducted in accordance with OAC rule 3745-17-03(B)(10).
- 4.b Emission Limitation: Visible PE from any stack shall not exceed 20% opacity, as a 6-minute average, except as specified by rule.

Applicable Compliance Method: Compliance with the visible PE limitation shall be determined by the method specified in 40 CFR Part 60, Appendix A, Test Method 9 pursuant to OAC rule 3745-17-03(B)(1).

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

**Operations, Property,
and/or Equipment**

**Applicable Rules/
Requirements**

**Applicable Emissions
Limitations/Control
Measures**

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Hydrated Lime Grinder (P019)

Activity Description: Conversion of hydrated lime to finished product via grinding operations.

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
hydrated lime grinder, equipped with a baghouse	OAC rule 3745-17-07(A)(1) OAC rule 3745-17-11(B)(1)	Visible particulate emissions (PE) from any stack shall not exceed 20% opacity, as a six-minute average, except as specified by rule. 24 lbs of PE/hr (based on OAC rule 3745-17-11(B), Table I)

2. Additional Terms and Conditions

- 2.a The permittee shall employ a baghouse to control all PE from this emissions unit.
- 2.b If the emissions testing required for this emissions unit demonstrates that the allowable emissions rate from Figure II is more stringent than 24 lbs/hour, the permittee shall comply with the more stringent limitation.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible PE from the baghouse (P019-BH) serving this emissions unit. The presence or absence of any visible PE shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the location and color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any visible emission incident; and
 - e. any corrective actions taken to eliminate the visible emissions.

IV. Reporting Requirements

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

V. Testing Requirements

1. The permittee shall conduct, or have conducted, emissions testing for this emissions unit in accordance with the following requirements:
 - a. The emission testing shall be conducted within 3 months after issuance of this permit and within 6 months prior to permit expiration.
 - b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate for PE and the opacity limitations.
 - c. The following test methods shall be employed to demonstrate compliance with the allowable emission limitations:

PE: Methods 1-5 of 40 CFR Part 60, Appendix A and the procedures specified in OAC rule 3745-17-03(B)(10); and

Visible PE: Test Method 9, 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 Ohio EPA, Northwest District Office.

A PE test also shall be conducted at the inlet of the control device to determine the uncontrolled mass rate of emissions for the emissions unit, for purpose of determining the applicability of Figure II of OAC rule 3745-17-11. For this testing, Methods 1-5 of 40 CFR Part 60, Appendix A and the procedures specified in OAC rule 3745-17-03(B)(10) shall be employed.

V. Testing Requirements (continued)

2. 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, Northwest 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, Northwest District Office refusal to accept the results of the emission test(s).

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

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

3. During the emission testing of this emissions unit, the following additional information shall be recorded: the tons of product produced.
4. Compliance with the emission limitations specified in Section A.I.1 of shall be determined in accordance with the following methods:
- 4.a Emission Limitation: 24 lbs of PE/hr (based on OAC rule 3745-17-11(B), Table I)

Applicable Compliance Method: Compliance with the hourly PE limitation shall be based on the results of emission testing conducted in accordance with OAC rule 3745-17-03(B)(10).

- 4.b Emission Limitation: Visible PE from any stack shall not exceed 20% opacity, as a six-minute average, except as specified by rule.

Applicable Compliance Method: Compliance with the visible PE limitation shall be determined by the method specified in 40 CFR Part 60, Appendix A, Test Method 9 pursuant to OAC rule 3745-17-03(B)(1).

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

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

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Lime Cooler #2 (P020)
Activity Description: Cooling of lime product.

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
lime cooler #2, equipped with a baghouse	OAC rule 3745-17-07(A)(1)	Visible particulate emissions (PE) from any stack shall not exceed 20% opacity, as a six-minute average, except as specified by rule. 9.04 lbs of PE/hr (based on OAC rule 3745-17-11(B), Figure II)
	OAC rule 3745-17-11(B)(1)	

2. Additional Terms and Conditions

- 2.a The permittee shall employ a baghouse to control all the PE from this emissions unit.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible PE from the baghouse (P020-BH) serving this emissions unit. The presence or absence of any visible PE shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the location and color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any visible emission incident; and
 - e. any corrective actions taken to eliminate the visible emissions.

IV. Reporting Requirements

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

V. Testing Requirements

1. The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:
 - a. The emission testing shall be conducted within 3 months after issuance of this permit and within 6 months prior to permit expiration.
 - b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate for PE and the opacity limitations.
 - c. The following test methods shall be employed to demonstrate compliance with the allowable emission limitations:

 PE: Methods 1-5 of 40 CFR Part 60, Appendix A and the procedures specified in OAC rule 3745-17-03(B)(10); and

 Visible PE: Test Method 9, 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 Ohio EPA, Northwest District Office.

 A PE test also shall be conducted at the inlet of the control device to determine the uncontrolled mass rate of emissions for the emissions unit, for purpose of determining the applicability of Figure II of OAC rule 3745-17-11. For this testing, Methods 1-5 of 40 CFR Part 60, Appendix A and the procedures specified in OAC rule 3745-17-03(B)(10) shall be employed.

V. Testing Requirements (continued)

2. 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, Northwest 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, Northwest District Office refusal to accept the results of the emission test(s).

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

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

3. During the emission testing of this emissions unit, the following additional information shall be recorded: the tons of product produced.
4. Compliance with the emission limitations specified in Section A.I.1 shall be determined in accordance with the following methods:
- 4.a Emission Limitation: 9.04 lbs of PE/hr (based on OAC rule 3745-17-11(B), Figure II)

Applicable Compliance Method: Compliance with the hourly PE limitation shall be based on the results of emission testing conducted in accordance with OAC rule 3745-17-03(B)(10).

- 4.b Emission Limitation: Visible PE from any stack shall not exceed 20% opacity, as a six-minute average, except as specified by rule.

Applicable Compliance Method: Compliance with the visible PE limitation shall be determined by the method specified in 40 CFR Part 60, Appendix A, Test Method 9 pursuant to OAC rule 3745-17-03(B)(1).

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

**Operations, Property,
and/or Equipment**

**Applicable Rules/
Requirements**

**Applicable Emissions
Limitations/Control
Measures**

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Lime Cooler #1 (P021)
Activity Description: Cooling of lime product.

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
lime cooler #1, equipped with a baghouse	OAC rule 3745-17-07(A)(1) OAC rule 3745-17-11(B)(1)	Visible particulate emissions (PE) from any stack shall not exceed 20% opacity, as a six-minute average, except as specified by rule. 7.81 lbs of PE/hr (based on OAC rule 3745-17-11(B), Figure II)

2. Additional Terms and Conditions

- 2.a The permittee shall employ a baghouse to control all the PE from this emissions unit.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible PE from the baghouse (P021-BH) serving this emissions unit. The presence or absence of any visible PE shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the location and color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any visible emission incident; and
 - e. any corrective actions taken to eliminate the visible emissions.

IV. Reporting Requirements

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

V. Testing Requirements

1. The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:
 - a. The emission testing shall be conducted within 3 months after issuance of this permit and within 6 months prior to permit expiration.
 - b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate for PE and the opacity limitations.
 - c. The following test methods shall be employed to demonstrate compliance with the allowable emission limitations:

PE: Methods 1-5 of 40 CFR Part 60, Appendix A and the procedures specified in OAC rule 3745-17-03(B)(10); and

Visible PE: Test Method 9, 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 Ohio EPA, Northwest District Office.

A PE test also shall be conducted at the inlet of the control device to determine the uncontrolled mass rate of emissions for the emissions unit, for purpose of determining the applicability of Figure II of OAC rule 3745-17-11. For this testing, Methods 1-5 of 40 CFR Part 60, Appendix A and the procedures specified in OAC rule 3745-17-03(B)(10) shall be employed.

V. Testing Requirements (continued)

2. 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, Northwest 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, Northwest District Office refusal to accept the results of the emission test(s).

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

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

3. During the emission testing of this emissions unit, the following additional information shall be recorded: the tons of product produced.
4. Compliance with the emission limitations specified in Section A.I.1 shall be determined in accordance with the following methods:
- 4.a Emission Limitation: 7.81 lbs of PE/hr (based on OAC rule 3745-17-11(B), Figure II)

Applicable Compliance Method: Compliance with the hourly PE limitation shall be based on the results of emission testing conducted in accordance with OAC rule 3745-17-03(B)(10).

- 4.b Emission Limitation: Visible PE from any stack shall not exceed 20% opacity, as a six-minute average, except as specified by rule.

Applicable Compliance Method: Compliance with the visible PE limitation shall be determined by the method specified in 40 CFR Part 60, Appendix A, Test Method 9 pursuant to OAC rule 3745-17-03(B)(1).

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

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

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

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