



John R. Kasich, Governor  
Mary Taylor, Lt. Governor  
Craig W. Butler, Director

8/18/2016

Certified Mail

Brian Riedmaier  
National Lime & Stone Co. - Carey  
1331 Broad Avenue, Suite 100  
Findlay, OH 45840

Facility ID: 0388000004  
Permit Number: P0120829  
County: Wyandot

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

Dear Permit Holder:

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

- **How to appeal this permit**
- **How to save money, reduce pollution and reduce energy consumption**
- **How to give us feedback on your permitting experience**
- **How to get an electronic copy of your permit**
- **What should you do if you notice a spill or environmental emergency?**

#### **How to appeal this permit**

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

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

## **How to save money, reduce pollution and reduce energy consumption**

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

## **How to give us feedback on your permitting experience**

Please complete a survey at [www.epa.ohio.gov/survey.aspx](http://www.epa.ohio.gov/survey.aspx) and give us feedback on your permitting experience. We value your opinion.

## **How to get an electronic copy of your permit**

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

## **What should you do if you notice a spill or environmental emergency?**

Any spill or environmental emergency which may endanger human health or the environment should be reported to the Emergency Response 24-HOUR EMERGENCY SPILL HOTLINE toll-free at (800) 282-9378. Report non-emergency complaints to the appropriate district office or local air agency.

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

Sincerely,



Michael E. Hopkins, P.E.  
Assistant Chief, Permitting Section, DAPC

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



**FINAL**

**Division of Air Pollution Control  
Title V Permit  
for  
National Lime & Stone Co. - Carey**

Facility ID:	0388000004
Permit Number:	P0120829
Permit Type:	Minor Permit Modification, Administrative Permit Modification
Issued:	8/18/2016
Effective:	8/18/2016
Expiration:	9/23/2020





**Division of Air Pollution Control**  
**Title V Permit**  
for  
National Lime & Stone Co. - Carey

**Table of Contents**

Authorization .....	1
A. Standard Terms and Conditions .....	2
1. Federally Enforceable Standard Terms and Conditions .....	3
2. Monitoring and Related Record Keeping and Reporting Requirements.....	3
3. Reporting of Any Exceedence of a Federally Enforceable Emission Limitation or Control Requirement Resulting From Scheduled Maintenance.....	6
4. Risk Management Plans .....	7
5. Title IV Provisions .....	7
6. Severability Clause .....	7
7. General Requirements .....	7
8. Fees.....	8
9. Marketable Permit Programs.....	8
10. Reasonably Anticipated Operating Scenarios .....	9
11. Reopening for Cause .....	9
12. Federal and State Enforceability .....	9
13. Compliance Requirements .....	9
14. Permit Shield .....	11
15. Operational Flexibility.....	11
16. Emergencies.....	12
17. Off-Permit Changes .....	12
18. Compliance Method Requirements .....	12
19. Insignificant Activities or Emissions Levels.....	13
20. Permit to Install Requirement.....	13
21. Air Pollution Nuisance .....	13
22. Permanent Shutdown of an Emissions Unit .....	13
23. Title VI Provisions .....	13
24. Reporting Requirements Related to Monitoring and Record Keeping Requirements Under State Law Only .....	14
25. Records Retention Requirements Under State Law Only.....	14
26. Inspections and Information Requests .....	14
27. Scheduled Maintenance/Malfunction Reporting For State-Only Requirements.....	15
28. Permit Transfers .....	15



29. Additional Reporting Requirements When There Are No Deviations of Federally Enforceable Emission Limitations, Operational Restrictions, or Control Device Operating Parameter Limitations .....	15
30. Submitting Documents Required by this Permit .....	16
B. Facility-Wide Terms and Conditions.....	17
C. Emissions Unit Terms and Conditions .....	21
1. F001, Stone Plant Roadways and Parking Areas.....	22
2. F002, Stone Plant Storage Piles .....	26
3. F006, Blasting and Overburden Removal.....	32
4. F015, 1500 TPH Aggregate Processing Plant.....	36
5. P005, Dorr-Oliver Dryer .....	44
6. P023, Pelletized Limestone Dryer .....	50
7. P024, Pelletizing Plant: Crushing, Screening, and Mtl. Hand. ....	56
8. P026, Wood Flour Receiving, Conveying, and Storage Operations.....	62
9. P901, Pelletizing Plant Loadout with 3 Bins .....	66
10. P902, Portable Drill .....	70
11. P903, Dried Stone Plant - Coarse Stone Loadouts .....	74
12. P904, Dried Stone Plant - Fine Stone Loadouts .....	78
13. P905, Dried Stone Plant - Crushing, Screening, Mat. Handling.....	82



**Final Title V Permit**  
National Lime & Stone Co. - Carey  
**Permit Number:** P0120829  
**Facility ID:** 0388000004  
**Effective Date:** 8/18/2016

## Authorization

Facility ID: 0388000004  
Facility Description: Limestone Mining and Processing  
Application Number(s): A0056048  
Permit Number: P0120829  
Permit Description: Title V minor permit modification to incorporate the terms of a recently issued PTI for emissions unit F006.  
Permit Type: Minor Permit Modification, Administrative Permit Modification  
Issue Date: 8/18/2016  
Effective Date: 8/18/2016  
Expiration Date: 9/23/2020  
Superseded Permit Number: P0118015

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

National Lime & Stone Co. - Carey  
North Patterson Street  
P. O. Box 8  
Carey, OH 43316

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

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

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

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

  
Craig W. Butler  
Director



**Final Title V Permit**  
National Lime & Stone Co. - Carey  
**Permit Number:** P0120829  
**Facility ID:** 0388000004  
**Effective Date:** 8/18/2016

## **A. Standard Terms and Conditions**

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

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

*(Authority for term: ORC 3704.036(A))*

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

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

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

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

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

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

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

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

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

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

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

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

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

Written reports of (a) any deviations from federally enforceable emission limitations, operational restrictions, and control device operating parameter limitations, (b) the

probable cause of such deviations, and (c) any corrective actions or preventive measures taken, shall be submitted promptly to the Ohio EPA DAPC, Northwest District Office. Except as provided below, the written reports shall be submitted by January 31, April 30, July 31, and October 31 of each year; and each report shall cover the previous calendar quarter.

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

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

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

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

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

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

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

enforceable requirements not specifically addressed by permit or rule for the insignificant activities or emissions levels (IEU) identified in section B. Facility-Wide Terms and Conditions of this Title V permit. Annual reporting of deviations is deemed adequate to meet the deviation reporting requirements for IEUs unless otherwise specified by permit or rule.

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

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

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

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

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

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

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

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

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

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

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

#### **4. Risk Management Plans**

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

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

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

#### **5. Title IV Provisions**

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

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

#### **6. Severability Clause**

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

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

#### **7. General Requirements**

- a) Any noncompliance with the federally enforceable terms and conditions of this permit constitutes a violation of the Act, and is grounds for enforcement action or for permit revocation, revocation and reissuance, or modification, or for denial of a permit renewal application.
- b) It shall not be a defense for the permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the federally enforceable terms and conditions of this permit except as provided pursuant to A.16 below.
- c) This permit may be modified, reopened, revoked, or revoked and reissued, for cause, in accordance with A.11 below. The filing of a request by the permittee for a permit modification, revocation and reissuance, or revocation, or of a notification of planned changes or anticipated noncompliance does not stay any term and condition of this permit.
- d) This permit does not convey any property rights of any sort, or any exclusive privilege.

- e) The permittee shall furnish to the Director of the Ohio EPA, or an authorized representative of the Director, upon receipt of a written request and within a reasonable time, any information that may be requested to determine whether cause exists for modifying, reopening or revoking this permit or to determine compliance with this permit. Upon request, the permittee shall also furnish to the Director or an authorized representative of the Director, copies of records required to be kept by this permit. For information claimed to be confidential in the submittal to the Director, if the Administrator of the U.S. EPA requests such information, the permittee may furnish such records directly to the Administrator along with a claim of confidentiality.
- f) Except as otherwise indicated below, this Title V permit, or permit modification, is effective for five years from the original effective date specified in the permit. In the event that this facility becomes eligible for non-title V permits, this permit shall cease to be enforceable when:
- (1) the permittee submits an approved facility-wide potential to emit analysis supporting a claim that the facility no longer meets the definition of a "major source" as defined in OAC rule 3745-77-01(W) based on the permanent shutdown and removal of one or more emissions units identified in this permit; or
  - (2) the permittee no longer meets the definition of a "major source" as defined in OAC rule 3745-77-01(W) based on obtaining restrictions on the facility-wide potential(s) to emit that are federally enforceable or legally and practically enforceable ; or
  - (3) a combination of (1) and (2) above.

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

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

## **8. Fees**

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

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

## **9. Marketable Permit Programs**

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

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

**10. Reasonably Anticipated Operating Scenarios**

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

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

**11. Reopening for Cause**

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

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

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

**12. Federal and State Enforceability**

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

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

**13. Compliance Requirements**

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

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

- b) Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the Director of the Ohio EPA or an authorized representative of the Director to:
- (1) At reasonable times, enter upon the permittee's premises where a source is located or the emissions-related activity is conducted, or where records must be kept under the conditions of this permit.
  - (2) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit, subject to the protection from disclosure to the public of confidential information consistent with paragraph (E) of OAC rule 3745-77-03.
  - (3) Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit.
  - (4) As authorized by the Act, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit and applicable requirements.
- c) The permittee shall submit progress reports to the Ohio EPA DAPC, Northwest District Office concerning any schedule of compliance for meeting an applicable requirement. Progress reports shall be submitted semiannually or more frequently if specified in the applicable requirement or by the Director of the Ohio EPA. Progress reports shall contain the following:
- (1) Dates for achieving the activities, milestones, or compliance required in any schedule of compliance, and dates when such activities, milestones, or compliance were achieved.
  - (2) An explanation of why any dates in any schedule of compliance were not or will not be met, and any preventive or corrective measures adopted.
- d) Compliance certifications concerning the terms and conditions contained in this permit that are federally enforceable emission limitations, standards, or work practices, shall be submitted to the Director (the Ohio EPA DAPC, Northwest District Office) and the Administrator of the U.S. EPA in the following manner and with the following content:
- (1) Compliance certifications shall be submitted annually on a calendar year basis. The annual certification shall be submitted on or before April 30th of each year during the permit term.
  - (2) Compliance certifications shall include the following:
    - a. Identification of each term or condition that is the basis of the certification. The identification may include a statement by the Responsible Official that every term and condition that is federally enforceable has been reviewed, and such terms and conditions with which there has been continuous compliance throughout the year are not separately identified.
    - b. The permittee's current compliance status.

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

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

#### **14. Permit Shield**

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

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

#### **15. Operational Flexibility**

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

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

## **16. Emergencies**

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

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

## **17. Off-Permit Changes**

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

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

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

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

## **18. Compliance Method Requirements**

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

*(This term is provided for informational purposes only.)*

**19. Insignificant Activities or Emissions Levels**

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

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

**20. Permit to Install Requirement**

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

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

**21. Air Pollution Nuisance**

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

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

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

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

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

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

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

**23. Title VI Provisions**

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

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

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

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

The permittee shall submit required reports in the following manner:

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

**25. Records Retention Requirements Under State Law Only**

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

**26. Inspections and Information Requests**

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

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

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

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

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

**28. Permit Transfers**

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

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

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

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

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

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



**30. Submitting Documents Required by this Permit**

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



**Final Title V Permit**  
National Lime & Stone Co. - Carey  
**Permit Number:** P0120829  
**Facility ID:** 0388000004  
**Effective Date:** 8/18/2016

## **B. Facility-Wide Terms and Conditions**



1. All the following facility-wide terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only:

a) None.

2. Pursuant to 40 CFR Part 64, the permittee has submitted, and the Ohio EPA has approved a compliance assurance monitoring plan for emissions units P005, P023, P024, P903, P904 and P905 at this facility. The permittee shall comply with the provisions of the plan during any operation of the aforementioned emissions units.

[Authority for term: 40 CFR, Part 64]

3. The following insignificant emissions units at this facility must comply with all applicable State and federal regulations, as well as any emissions limitations and/or control requirements contained within the identified permit to install for the emissions unit. The insignificant emissions units listed below are subject to one or more applicable requirements contained in a permit-to-install or in the SIP approved versions of OAC Chapters 3745-17, 3745-18 and 3745-21 and/or 40 CFR Part 60 or 63:

EU ID	Operations, Property and/or Equipment Description
G005	550 Gallon Gasoline Tank w/ Dispenser (behind warehouse)
L005	Solvent Parts Washer (shop)
L006	Solvent Parts Washer #1 (garage)
L007	Solvent Parts Washer #2 (garage)
L008	Solvent Parts Washer #3 (garage)

[OAC rule 3745-77-07(A)(13)]

4. The following insignificant emissions unit is subject to 40 CFR 63.11110 et seq. (GACT Subpart CCCCCC): G005 -550 Gallon Gasoline Storage Tank and Dispensing. This unit is an 'existing affected source' pursuant to 40 CFR 63.11112(d).

The emission sources to which Subpart CCCCCC applies are gasoline storage tanks and associated equipment components in vapor or liquid gasoline service at the gasoline dispensing facilities (GDF) that meet the criteria specified in 40 CFR 63.11111. Pressure/Vacuum vents on gasoline storage tanks and the equipment necessary to unload product from cargo tanks into the storage tanks at GDF are covered emission sources. The equipment used for the refueling of motor vehicles is not covered by Subpart CCCCCC.

[40 CFR 63.11112(a)]

The applicable requirements are summarized below:

a) The permittee must, at all times, operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Ohio EPA which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.

[40 CFR 63.11115(a)]



- b) The permittee must not allow gasoline to be handled in a manner that would result in vapor releases to the atmosphere for extended periods of time. Measures to be taken include, but are not limited to, the following:
  - 1) Minimize gasoline spills;
  - 2) Clean up spills as expeditiously as practicable;
  - 3) Cover all open gasoline containers and all gasoline storage tank fill-pipes with a gasketed seal when not in use (portable gasoline containers that meet the requirements of 40 CFR 59, Subpart F, are considered acceptable for compliance with this section); and
  - 4) Minimize gasoline sent to open waste collection systems that collect and transport gasoline to reclamation and recycling devices, such as oil/water separators.  
[40 CFR 63.11116(a) and (d)]
- c) If an affected source's throughput ever exceeds an applicable throughput threshold, the affected source will remain subject to the requirements for sources above the threshold, even if the affected source throughput later falls below the applicable throughput threshold.  
[40 CFR 63.11111(i)]
- d) The dispensing of gasoline from a fixed gasoline storage tank at a GDF into a portable gasoline tank for the on-site delivery and subsequent dispensing of the gasoline into the fuel tank of a motor vehicle or other gasoline-fueled engine or equipment used within the facility is subject to (and only to) section B.3.b) of this permit.  
[40 CFR 63.11111(j)]
- e) The permittee may elect to comply only with the more stringent provisions of other applicable subparts, in accordance with 40 CFR 63.11111(k).

5. The permittee shall comply with the applicable monitoring and record-keeping requirements required under 40 CFR 63 Subpart CCCCC, including the following sections:

.11111(e) and (h)	Record keeping of monthly throughput
.11125(d)	Records of equipment malfunctions

[40 CFR Part 63 Subpart CCCCC]

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

.11116(b)	Not subject to reporting and notifications, but must have records available upon request
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[40 CFR Part 63 Subpart CCCCC]



**Final Title V Permit**  
National Lime & Stone Co. - Carey  
**Permit Number:** P0120829  
**Facility ID:** 0388000004  
**Effective Date:**8/18/2016

7. The permittee shall comply with the applicable requirements under the 40 CFR Part 63 General Provisions as identified in Table 3 to Subpart CCCCCC.  
[40 CFR Part 63 Subpart CCCCCC]



**Final Title V Permit**  
National Lime & Stone Co. - Carey  
**Permit Number:** P0120829  
**Facility ID:** 0388000004  
**Effective Date:** 8/18/2016

## **C. Emissions Unit Terms and Conditions**



**1. F001, Stone Plant Roadways and Parking Areas**

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

Vehicle travel on quarry roadways and parking areas.

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

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-17-07(B)(4)  paved roadways and parking areas [See b)(2)a.]	no visible particulate emissions (PE) from paved roadways except for 6 minutes during any 60-minute observation period
b.	OAC rule 3745-17-08(B), (B)(8), (B)(9)  paved roadways and parking areas [See b)(2)a.]	reasonably available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust [See b)(2)c., b)(2)e., and b)(2)g. through b)(2)i.]
c.	OAC rule 3745-17-07(B)(5)  unpaved roadways and parking areas [See b)(2)b.]	no visible PE from unpaved roadways except for 13 minutes during any 60-minute observation period
d.	OAC rule 3745-17-08(B), (B)(2), (B)(9)  unpaved roadways and parking areas [See b)(2)b.]	reasonably available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust [See b)(2)d. through b)(2)i.]

(2) Additional Terms and Conditions

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

paved roadways: asphalt roadways

paved parking areas: none

- b. The unpaved roadways and parking areas that are covered by this permit and subject to the requirements of OAC rules 3745-17-07 and 3745-17-08 are listed below:
- unpaved roadways:  
gravel roadways, lime plant gravel roadway, Plant C-3 gravel parking lot and garage gravel parking lot
- unpaved parking areas:  
lime plant gravel parking lot and Plant C-1 gravel parking lot
- 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 and use speed limit restrictions (10 mph) to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- d. The permittee shall employ reasonably available control measures on all unpaved roadways and parking areas for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to treat the unpaved roadways and parking areas by watering, oiling and/or chemical stabilization at sufficient treatment frequencies and use speed limit restrictions (10 mph) to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- e. The needed frequencies of implementation of the control measures shall be determined by the permittee's inspections pursuant to the monitoring section of this permit. Implementation of the control measures shall not be necessary for a paved or unpaved roadway or parking area that is covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements. Implementation of any control measure may be suspended if unsafe or hazardous driving conditions would be created by its use.
- f. Any unpaved roadway or parking area, which during the term of this permit is paved or takes the characteristics of a paved surface due to the application of certain types of dust suppressants, may be controlled with the control measure(s) specified above for paved surfaces. Any unpaved roadway or parking area that takes the characteristics of a paved roadway or parking area due to the application of certain types of dust suppressants shall remain subject to the visible emission limitation for unpaved roadways and parking areas. Any unpaved roadway or parking area that is paved shall be subject to the visible emission limitation for paved roadways and parking areas.
- g. The permittee shall promptly remove, in such a manner as to minimize or prevent re-suspension, earth and/or other material from paved streets onto which such

material has been deposited by trucking or earth moving equipment or erosion by water or other means.

- h. 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.
- i. Implementation of the above-mentioned control measures in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the requirements of OAC rule 3745-17-08.

c) Operational Restrictions

- (1) None.

d) Monitoring and/or Recordkeeping Requirements

- (1) Except as otherwise provided in this section, the permittee shall perform inspections of each of the roadways and parking areas in accordance with the following frequencies:

paved roadways and parking areas: all minimum inspection frequency: daily

unpaved roadways and parking areas: all minimum inspection frequency: daily  
[OAC rule 3745-77-07(C)(1)]

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

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

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

The information required in d)(3)d. shall be kept separately for (i) the paved roadways and parking areas and (ii) the unpaved roadways and parking areas, and shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

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

e) Reporting Requirements

(1) The permittee shall submit quarterly deviation reports, in accordance with the Standard Terms and Conditions of this permit, that identify any of the following occurrences:

a. each day during which an inspection was not performed by the required frequency, excluding an inspection which was not performed due to an exemption for snow and/or ice cover or precipitation; and

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

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

f) Testing Requirements

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

a. Emission Limitation:

no visible PE from paved roadways except for 6 minutes during any 60-minute observation period

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance pursuant to the method and procedures specified in OAC rule 3745-17-03(B)(4).

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

b. Emission Limitation:

no visible PE from unpaved roadways except for 13 minutes during any 60-minute observation period

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance pursuant to the method and procedures specified in OAC rule 3745-17-03(B)(4).

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

g) Miscellaneous Requirements

(1) None.

**2. F002, Stone Plant Storage Piles**

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

limestone aggregate storage piles

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

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05 (A)(3) (PTI P0118130 issued December 17, 2014)	18.3 tons fugitive particulate emissions (PE)/year  load-in and load-out of storage piles [See b)(2)a. for identification of storage piles.]  no visible particulate emissions except for a period of time not to exceed one minute during any 60-minute observation period  best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust [See b)(2)a., b)(2)c., and b)(2)f.]  wind erosion from storage piles [See b)(2)a. for identification of storage piles.]  no visible particulate emissions except for a period of time not to exceed one minute during any 60-minute observation period  best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust [See b)(2)d. through b)(2)f.]



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
b.	OAC rule 3745-17-07(B)(1)	See b)(2)g.
c.	OAC rule 3745-17-08(B)(1)	See b)(2)g.

(2) Additional Terms and Conditions

- a. The storage piles that are covered by this permit and subject to the above-mentioned requirements are listed below:

18 limestone storage piles

- b. The permittee shall employ best available control measures on all load-in and load-out operations associated with the storage piles for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to treat the storage pile materials with water at sufficient treatment frequencies to ensure compliance and to maintain low drop height from conveyors and FEL's. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

- c. The above-mentioned control measure(s) shall be employed for each load-in and load-out operation of each storage pile if the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the control measure(s) are necessary to ensure compliance with the above-mentioned applicable requirements. Any required implementation of the control measure(s) shall continue during any such operation until further observation confirms that use of the measure(s) is unnecessary.

- d. The permittee shall employ best available control measures for wind erosion from the surfaces of all storage piles for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permit application, the permittee maintains that the inherent moisture content of the aggregate and wet suppression carry-over from aggregate processing is more than sufficient to comply with all applicable requirements. If at any time the moisture content is not sufficient to meet the above applicable requirements, the permittee has committed to water application in order to ensure compliance.

Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

- e. The above-mentioned control measure(s) shall be employed for wind erosion from each pile if the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the control measure(s) are necessary to ensure compliance with the above-mentioned applicable requirements. Implementation of the control measure(s) shall not be necessary for a storage pile 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.



- f. Implementation of the above-mentioned control measures in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the requirements of OAC rule 3745-31-05.
  - g. The emissions limitations and control measure requirements specified by these rules are less stringent than the emissions limitations and control measure requirements established pursuant to OAC rule 3745-31-05 (A)(3).
- c) Operational Restrictions
- (1) None.
- d) Monitoring and/or Recordkeeping Requirements
- (1) Except as otherwise provided in this section, the permittee shall perform inspections of each load-in operation at each storage pile in accordance with the following frequencies:  

<u>storage pile identification</u>	<u>minimum load-in inspection frequency</u>
all storage piles	once per day of operation

[OAC rule 3745-77-07(C)(1) and PTI P0118130]
  - (2) Except as otherwise provided in this section, the permittee shall perform inspections of each load-out operation at each storage pile in accordance with the following frequencies:  

<u>storage pile identification</u>	<u>minimum load-out inspection frequency</u>
all storage piles	once per day of operation

[OAC rule 3745-77-07(C)(1) and PTI P0118130]
  - (3) Except as otherwise provided in this section, the permittee shall perform inspections of the wind erosion from pile surfaces associated with each storage pile in accordance with the following frequencies:  

<u>storage pile identification</u>	<u>minimum wind erosion inspection frequency</u>
all storage piles	once per day of operation

[OAC rule 3745-77-07(C)(1) and PTI P0118130]
  - (4) No inspection shall be necessary for wind erosion from the surface of a storage pile when the pile is covered with snow and/or ice and for any storage pile activity 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. [OAC rule 3745-77-07(C)(1) and PTI P0118130]
  - (5) The purpose of the inspections is to determine the need for implementing the control measures specified in this permit for load-in and load-out of a storage pile, and wind

erosion from the surface of a storage pile. The inspections shall be performed during representative, normal storage pile operating conditions.  
[OAC rule 3745-77-07(C)(1) and PTI P0118130]

(6) 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, for wind erosion from pile surfaces, the total number of days where snow and/or ice cover or precipitation were sufficient to not require the control measure(s).

The information required in d)(6)d. shall be kept separately for (i) the load-in operations, (ii) the load-out operations, and (iii) the pile surfaces (wind erosion), and shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

[OAC rule 3745-77-07(C)(1) and PTI P0118130]

e) Reporting Requirements

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

- a. each day during which an inspection was not performed by the required frequency, excluding an inspection which was not performed due to an exemption for snow and/or ice cover or precipitation; and
- b. each instance when a control measure, that was to be implemented as a result of an inspection, was not implemented.

The deviation reports shall be submitted in accordance with the reporting requirements of the Standard Terms and Conditions of this permit.

[OAC rule 3745-77-07(C)(1) and PTI P0118130]

f) Testing Requirements

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

- a. Emission Limitations:  
18.3 tons fugitive PE/year

Applicable Compliance Method:

The emission limitation was established by combining the total PE emissions from load-in and load-out operations and from wind erosion from each storage pile as listed in the permittee's application. The emission rates were determined as follows:

- i. Load-in - emissions associated with load-in operations were established by multiplying the maximum load-in rate of 6,000,000 tons limestone/year by the appropriate emission factor from AP-42, Section 13.2.4.(1/95) [0.0021 pound PE/ton processed] and then dividing by 2000 pounds/ton.
- ii. Load-out - emissions associated with load-out operations were established by multiplying the maximum load-out rate of 6,000,000 tons per year of limestone by the appropriate emission factor from AP-42 section 13.2.4 (1/95) [0.0021 pound PE/ton processed] and then dividing by 2000 pounds/ton.
- iii. Wind erosion - emissions were established by multiplying a maximum, combined, limestone, storage pile surface area of 72.0 acres, the appropriate emission factor from USEPA's Control of Open Fugitive Dust Sources (9/88) [8.68 pounds PE/day/acre], a maximum operating schedule of 365 days per year, dividing by 2000 pounds/ton and applying a 95% control efficiency.

Therefore, provided compliance is shown with the requirements of this permit to apply best available control measures, compliance with the annual limitation shall also be demonstrated.

[OAC rule 3745-77-07(C)(1) and PTI P0118130]

b. Emission Limitation:

There shall be no visible particulate emissions except for a period of time not to exceed one minute during any 60-minute observation period from load-in and load-out of the storage piles

Applicable Compliance Method:

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

[OAC rule 3745-77-07(C)(1) and PTI P0118130]

c. Emission Limitation:

There shall be no visible particulate emissions except for a period of time not to exceed one minute during any 60-minute observation period from wind erosion

Applicable Compliance Method:

If required, compliance with the visible emission limitations for the storage piles identified above shall be determined in accordance with Test Method 22 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of



**Final Title V Permit**  
National Lime & Stone Co. - Carey  
**Permit Number:** P0120829  
**Facility ID:** 0388000004  
**Effective Date:** 8/18/2016

Performance for New Stationary Sources") and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(c) of OAC rule 3745-17-03. [OAC rule 3745-77-07(C)(1) and PTI P0118130]

- g) Miscellaneous Requirements
  - (1) None.

**3. F006, Blasting and Overburden Removal**

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

Mineral extraction and overburden removal operations at an open pit dolomitic limestone quarry

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

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	ORC 3704.03(T) Best Available Technology (BAT) (PTI P0120487 issued April 7, 2016)	Implement a site-specific work practice plan designed as described in paragraph d)(1), d)(2), and d)(3) below to minimize or eliminate fugitive dust emissions.
b.	OAC rule 3745-17-07(B)(1)	See b)(2)a.
c.	OAC rule 3745-17-08(B)	Utilize reasonably available control measures to prevent fugitive dust from becoming airborne. [See b)(2)b.]

a. Except for blasting at mineral extraction operations, visible fugitive particulate emissions shall not exceed twenty per cent opacity as a three-minute average.

b. The permittee shall employ reasonably available control measures 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. Blasting Operations:  
 minimize blasting area, prevent overshooting

ii. Overburden Removal:  
 minimize disturbed land surface area, reclaim as expeditiously as possible, watering as necessary, such that compliance with the visible emission limitation in b)(2)a can be achieved



- iii. Soil Removal by Scraper:  
 minimize the disturbance of the land surface, and watering as necessary, such that compliance with the visible emission limitation in b)(2)a can be achieved
- iv. Mineral Loading:  
 minimize drop height during loading of the truck bed, prevent haul vehicle overloading and maintain inherent moisture level to control fugitive dust emissions during truck loading such that compliance with the visible emission limitation in b)(2)a can be achieved. Water and/or any other suitable dust suppressant shall be applied as needed.
- v. Overburden Loading:  
 minimize drop height during loading of the truck bed, prevent vehicle overloading, such that compliance with the visible emission limitation in b)(2)a can be achieved.
- vi. Overburden Replacement:  
 employ reclamation /vegetation practices, water as necessary, such that compliance with the visible emission limitation in b)(2)a can be achieved
- vii. Bulldozing Operations:  
 employ reclamation /vegetation practices, water as necessary, such that compliance with the visible emission limitation in b)(2)a can be achieved
- viii. Grading Operations:  
 employ reclamation /vegetation practices, water as necessary, such that compliance with the visible emission limitation in b)(2)a can be achieved

c) Operational Restrictions

- (1) None.

d) Monitoring and/or Recordkeeping Requirements

- (1) Except as otherwise provided in this section, for mineral extraction operations, the permittee shall perform inspections of such operations in accordance with the following minimum frequencies:

<u>Operation:</u>	<u>Minimum Inspection Frequency:</u>
Blasting Operations:	not applicable
Overburden Removal:	daily
Soil Removal by Scraper:	daily
Mineral Loading:	daily
Overburden Loading:	daily
Overburden Replacement:	daily
Bulldozing Operations:	daily
Grading Operations:	daily

[OAC rule 3745-77-07(C)(1) and PTI P0120487]

- (2) The purpose of the inspections is to determine the need for implementing the control measures specified in this permit for the operations listed above. The inspections shall be performed during representative, normal operating conditions.  
[OAC rule 3745-77-07(C)(1) and PTI P0120487]
- (3) The permittee shall maintain records of the following information:
- a. the date and reason any required inspection was not performed;
  - b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control 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.

The information required in d)(3)d shall be kept separately for each operation listed in d)(1), and shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

[OAC rule 3745-77-07(C)(1) and PTI P0120487]

e) Reporting Requirements

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

The deviation reports shall be submitted in accordance with the reporting requirements of the Standard Terms and Conditions of this permit.

[OAC rule 3745-77-07(C)(1) and PTI P0120487]

f) Testing Requirements

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

- a. Emission Limitation:  
Visible fugitive PE shall not exceed 20% opacity, as a 3-minute average.

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance pursuant to the method and procedures specified in OAC rule 3745-17-03(B)(3).

[OAC rule 3745-77-07(C)(1) and PTI P0120487]



**Final Title V Permit**  
National Lime & Stone Co. - Carey  
**Permit Number:** P0120829  
**Facility ID:** 0388000004  
**Effective Date:** 8/18/2016

g) Miscellaneous Requirements

- (1) None.

**4. F015, 1500 TPH Aggregate Processing Plant**

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

1500 ton/hour aggregate processing plant (limestone)

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

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	ORC 3704.03(T) (PTI P0117407 issued August 5, 2014)	Visible fugitive particulate emission (PE) limitations [see b)(2)b.]
b.	OAC rule 3745-17-07(B)	Visible PE shall not exceed 20% opacity as a three-minute average.  See b)(2)e. and b)(2)f.
c.	OAC rule 3745-17-08(B)	Use of reasonably available control measures (RACM)  See b)(2)c. and b)(2)d.
d.	40 CFR, Part 60, Subpart OOO	Visible PE restrictions  See b)(2)f.

(2) Additional Terms and Conditions

- a. This permit consists of the following:
  - i. three material unloading operations designed to be operational at any time (e.g. dumping into feeder, hopper);
  - ii. a maximum of five crushers in operation at any time;
  - iii. a maximum of nine screens in operation at any time (includes grizzly feeder);
  - iv. a maximum of 113 transfer points in operation at any time; and



- v. a maximum material throughput of 6,000,000 tons per year (based on primary crushing throughput).
- b. The Best Available Technology (BAT) requirements under ORC 3704.03(T) have been determined to be compliance with the following visible emission limitations:
  - i. compliance with visible emission limitations established under 40 CFR Part 60 Subpart OOO, [see b)(2)f.];
  - ii. compliance with the visible emissions limitations established under OAC rule 3745-17-07(B) [see b)(2)f.]; and
  - iii. compliance with the visible emission limitations established under ORC 3704.03(T) [see b)(2)f.]
- c. The permittee has indicated the application of the following control measures for fugitive material processing/handling operations for the purpose of ensuring compliance with the applicable visible emission limitations and the application of reasonably available control measures (RACM). In accordance with the permit application, the permittee has committed to perform the following control measure(s);

Material Processing and/or Handling operation	Control Measure(s)
unloading	reduced drop height
primary crushing and screening	water sprays as needed
secondary crushing and screening	wet suppression as needed
transfer/conveying	wet suppression as needed

Nothing in this paragraph shall prohibit the permittee from employing other control measures.

- d. National Lime and Stone is located within an “Appendix A” area as identified in OAC rule 3745-17-08 and is subject to OAC rule 3745-17-08(B) requiring the use of reasonable available control measures [see b)(2)c].
- e. National Lime and Stone is located within an “Appendix A” area as identified in OAC rule 3745-17-08 and is subject to OAC rule 3745-17-07(B) restricting visible emissions of fugitive dust not to exceed 20% opacity as a three-minute average.

The opacity limitation specified by this rule is less stringent than the opacity limitations established pursuant to ORC 3704.03(T) and 40 CFR Part 60 Subpart OOO with the exception of visible emissions from material unloading to feeder operations which are subject to the opacity limitation established under OAC rule 3745-17-07(B) [see b)(2)f.]



f. Visible fugitive emissions from the material processing/handling operation shall not exceed the following opacity limitations:

Material Handling/Processing Operation	Opacity limit	Regulatory Basis
material unloading to feeder	20%, as a 3-minute average	OAC 3745-17-07(B)
wet screening and screening of saturated materials	no visible emissions	ORC 3704.03(T)
conveyor transfer points of saturated materials	no visible emissions	ORC 3704.03(T)
transfer points on belt conveyors or any other affected facility in a building	7%, as a 6-minute average	40 CFR Part 60 Subpart 000
<b>For affected facilities (as defined in 60.670 and 60.671) that commenced construction, modification, or reconstruction before August 31, 1983:</b>		
crushing /with no capture system	15%, as a 6-minute average	ORC 3704.03(T)
conveyor transfer points feeding and exiting crushers	15%, as a 6-minute average	ORC 3704.03(T)
grinding mills, screening operations, bucket elevators, transfer points on belt conveyors, bagging operations, storage bins, enclosed truck or railcar loading stations, and any other affected facility as defined by this rule	10%, as a 6-minute average	ORC 3704.03(T)
<b>For affected facilities (as defined in 60.670 and 60.671) that commenced construction, modification, or reconstruction after August 31, 1983, but before April 22, 2008:</b>		
crushing /with no capture system	15%, as a 6-minute average	40 CFR Part 60 Subpart 000
conveyor transfer points feeding and exiting crushers	15%, as a 6-minute average	40 CFR Part 60 Subpart 000
grinding mills, screening operations, bucket elevators, transfer points on belt conveyors, bagging operations, storage bins, enclosed truck or railcar loading stations, and any other affected facility as defined by this rule	10%, as a 6-minute average	40 CFR Part 60 Subpart 000
<b>For affected facilities (as defined in 60.670 and 60.671) that commenced construction, modification, or reconstruction on or after April 22, 2008:</b>		
crushers with no capture system	12 %, as a 6-minute average	40 CFR Part 60 Subpart 000
grinding mills, screening operations, bucket elevators, transfer points on belt conveyors, bagging operations, storage bins, enclosed	7%, as a 6-minute average	



truck or railcar loading stations, and any other affected facility as defined by this rule		40 CFR Part 60 Subpart OOO
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c) Operational Restrictions

- (1) None.

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible fugitive particulate emissions from the following material processing/handling operations:

<b>Material Processing/Handling Operation</b>
unloading operations (truck /front-end loader dumping into a feeder, hopper, or crusher)
plant conveyor and transfer points
screens
crushers

The presence or absence of any visible fugitive emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:

- a. the location and color of the emissions;
- b. whether the emissions are representative of normal operations;
- c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
- d. the total duration of any visible emission incident; and
- e. any corrective actions taken to minimize or eliminate the visible emissions.

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

operations, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible emissions.  
[OAC rule 3745-77-07(C)(1) and PTI P0117407]

- (2) When using a wet suppression system to control fugitive dust, the permittee shall perform monthly periodic inspections for each piece of equipment constructed, modified, or reconstructed on or after April 22, 2008, to check that water is flowing to the discharge spray nozzles. The permittee must initiate corrective action within 24 hours and complete corrective action as expediently as practical if water is not flowing properly during an inspection of the water spray nozzles. The permittee must record each inspection of the water spray nozzles, including the date of each inspection and any corrective actions taken, in the logbook required under d)(4).  
[OAC rule 3745-77-07(C)(1) and PTI P0117407]
- (3) If the permittee, meeting the requirements of d(2), ceases operation of the water sprays or is using a control mechanism other than water sprays to reduce fugitive dust emissions during the monthly inspection (for example, water from recent rainfall), the logbook entry required under d)(4) must specify the control mechanism being used instead of the water sprays.  
[OAC rule 3745-77-07(C)(1) and PTI P0117407]
- (4) The permittee must record each periodic inspection required under d)(2) and d)(3), including dates and any corrective actions taken, in a logbook (in written or electronic format). The permittee must keep the logbook onsite and make hard or electronic copies (whichever is requested) of the logbook available to the Ohio EPA upon request.  
[OAC rule 3745-77-07(C)(1) and PTI P0117407]
- (5) This permit addresses aggregate processing plant operations based on a design /configuration and a maximum annual material throughput as contained in permit application A0047371 submitted April 8, 2013. Prior to making any physical change or change in the method of operation (i.e. changes in; plant configuration, equipment, materials produced, increased throughput, etc.), the permittee shall conduct an evaluation to determine if the change would constitute a "modification" as defined in OAC rule 3745-31-01. If any physical change in, or change(s) in the method of operation is (are) defined as a modification, then the permittee shall obtain a final PTI modification prior to performing such change as required by OAC rule 3745-31.

The permittee shall collect, record, and retain all evaluation information and the final determination when modification evaluations are performed. Each evaluation performed at a minimum shall include the following information:

- a. the number of unloading operations designed to be operational at any time;
- b. the number of crushers designed to be operational at any time;
- c. the number of screens designed to be operational at any time;
- d. the number of transfer points designed to be operational at any time;



- e. changes (if any) in the maximum annual throughput for the aggregate processing line (based on throughput for primary crushing operations).  
[OAC rule 3745-77-07(C)(1) and PTI P0117407]

e) Reporting Requirements

- (1) The permittee shall submit semiannual written reports that identify:

- a. all days during which any visible fugitive particulate emissions were observed from material processing/handling operations (i.e., crushing, screening or transfer points); and
- b. any corrective actions taken to minimize or eliminate the visible fugitive particulate emissions.

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

[OAC rule 3745-77-07(C)(1) and PTI P0117407]

- (2) In accordance with 40 CFR 60.676(a), the permittee shall submit the following information for each piece of equipment that is replaced by a piece of equipment having the same function as the existing "facility":

- a. for a crusher:

- i. the rated capacity in tons per hour of the existing facility being replaced; and
- ii. the rated capacity in tons per hour of the replacement equipment.

- b. for a screening operation:

- i. the total surface area of the top screen of the existing screening operation being replaced; and
- ii. the total surface area of the top screen of the replacement screening operation.

- c. for a conveyor belt:

- i. the width of the existing belt being replaced; and
- ii. the width of the replacement conveyor belt.

[OAC rule 3745-77-07(C)(1) and PTI P0117407]

f) Testing Requirements

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



a. Emission Limitation:

Visible PE shall not exceed 20% opacity, as a 3-minute average during unloading operation (truck/front-end loader dumping into a feeder, hopper, or crusher).

Applicable Compliance Method:

If required, compliance shall be demonstrated using Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60, Appendix A (Standards of Performance for New Stationary Sources") and the modifications listed in paragraphs (B)(3)(a) and (B)(3)(b) of OAC rule 3745-17-03. [OAC rule 3745-77-07(C)(1) and PTI P0117407]

b. Emission Limitations:

Material Handling/Processing Operation	Opacity limit
transfer points on belt conveyors or any other affected facility in a building	7%, as a 6-minute average
crushing/with no capture system	15%, as a 6-minute average
conveyor transfer points feeding and exiting crushers	15%, as a 6-minute average
grinding mills, screening operations, bucket elevators, transfer points on belt conveyors, bagging operations, storage bins, enclosed truck or railcar loading stations, and any other affected facility as defined by this rule	10%, as a 6-minute average
Crushing/with no capture system	15%, as a 6-minute average
conveyor transfer points feeding and exiting crushers	15%, as a 6-minute average
grinding mills, screening operations, bucket elevators, transfer points on belt conveyors, bagging operations, storage bins, enclosed truck or railcar loading stations, and any other affected facility as defined by this rule	10%, as a 6-minute average
crushers with no capture system	12 %, as a 6-minute average
grinding mills, screening operations, bucket elevators, transfer points on belt conveyors, bagging operations, storage bins, enclosed truck or railcar loading stations, and any other affected facility as defined by this rule	7%, as a 6-minute average

Applicable Compliance Method:

If required, compliance shall be demonstrated using Method 9 of 40 CFR Part 60, Appendix A, and the procedures specified in 40 CFR Part 60, Subpart OOO, section 60.675.

[OAC rule 3745-77-07(C)(1) and PTI P0117407]



c. Emission Limitations:

<b>Material Handling/Processing Operation</b>	<b>Opacity limit</b>
t screening and screening of saturated materials	visible emissions
hveyor transfer points of saturated materials	visible emissions

Applicable Compliance Method:

If required, compliance shall be demonstrated using Method 22 of 40 CFR Part 60, Appendix A, and the procedures specified in 40 CFR Part 60, Subpart OOO, section 60.675.

[OAC rule 3745-77-07(C)(1) and PTI P0117407]

g) Miscellaneous Requirements

- (1) The application and enforcement of the provisions of NSPS, as promulgated by the United States Environmental Protection Agency, 40 CFR Part 60, are delegated to the Ohio Environmental Protection Agency. The requirements for 40 CFR Part 60 are also federally enforceable.

**5. P005, Dorr-Oliver Dryer**

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

225 ton/hour Dorr-Oliver fluidized bed limestone dryer controlled with primary and secondary cyclones, a wet scrubber and mist eliminator

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

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-17-07(A)	Visible particulate emissions (PE) shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.
b.	OAC rule 3745-17-11(B)	44.0 lbs PE /hr
c.	40 CFR, Part 64 – Compliance Assurance Monitoring (CAM)	See d)(1) through d)(8), and e)(1).

(2) Additional Terms and Conditions

a. All of the PE from this emissions unit shall be vented to the wet scrubber control equipment.

c) Operational Restrictions

(1) None.

d) Monitoring and/or Recordkeeping Requirements

(1) The permittee shall properly install, operate, and maintain equipment to continuously monitor the pressure drop across the scrubber (in inches of water) and the scrubber liquid motor pump amperes during operation of this emissions unit, including periods of startup and shutdown. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s).

a. The permittee shall record the following information on a twice per day basis:

i. the pressure drop across the scrubber; and

- ii. the scrubber motor pump amperes.
- b. Whenever the monitored value for any parameter deviates from the range(s) or minimum limit(s) established in accordance with this permit, the permittee shall promptly investigate the cause of the deviation. The permittee shall maintain records of the following information for each investigation:
  - i. the date and time the deviation began;
  - ii. the magnitude of the deviation at that time;
  - iii. the date the investigation was conducted;
  - iv. the name(s) of the personnel who conducted the investigation; and
  - v. the findings and recommendations.
- c. In response to each required investigation to determine the cause of a deviation, the permittee shall take prompt corrective action to bring the control equipment parameters within the acceptable range(s), or at or above the minimum limit(s) specified in this permit, unless the permittee determines that corrective action is not necessary.
  - i. The permittee shall maintain records of the following information for each deviation when it was determined that corrective action was not necessary:
    - (a) the reason corrective action was not necessary; and
    - (b) the date and time the deviation ended.
  - ii. The permittee shall maintain records of the following information for each corrective action taken:
    - (a) a description of the corrective action;
    - (b) the date the corrective action was completed;
    - (c) the date and time the deviation ended;
    - (d) the total period of time (in minutes) during which there was a deviation;
    - (e) the pressure drop and flow rate readings immediately after the corrective action was implemented; and
    - (f) the name(s) of the personnel who performed the work.
  - iii. Investigation and records required by this paragraph do not eliminate the need to comply with the requirements of OAC rule 3745-15-06 if it is determined that a malfunction has occurred.

d. Pressure drop indicator

In order to maintain compliance with the applicable emission limitation(s) contained in this permit, the acceptable range for the pressure drop across the scrubber, that must be maintained in order to demonstrate compliance, shall be between 10 to 70 inches of water.

e. Motor pump amperes indicator

In order to maintain compliance with the applicable emission limitation(s) contained in this permit, the acceptable range for the scrubber motor pump amperes, that shall be maintained in order to demonstrate compliance, shall be at a value of not less than 25 amps.

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

[OAC rule 3745-77-07(C)(1) and 40 CFR, Part 64]

(2) Notwithstanding the frequency of the recording of pressure drop across the scrubber specified in d)(1) and the scrubber liquid motor pump amperes specified in d)(2), the permittee may reduce the frequency of recordings for the pressure drop across the scrubber and the scrubber liquid motor pump amperes from two times per day to once per day readings if the following conditions are met:

- a. for two full calendar quarters, the permittee's recordings of pressure drop and motor pump amperes indicate no deviations; and
- b. the permittee continues to comply with all the record keeping and monitoring requirements specified in d)(1).

The permittee shall revert to two times per day readings if any deviations occur.

[OAC rule 3745-77-07(C)(1) and 40 CFR Part 64]

(3) The CAM plan for this emissions unit has been developed for particulate emissions. The CAM performance indicators for the scrubber controlling this emissions unit are the scrubber pressure drop and the scrubber motor pump amperes which were established in accordance with the manufacturer's recommendations and verified during site-specific particulate emission testing and scrubber parametric data collected during the emission testing. When the pressure drop and/or the amperes of the scrubber motor pump are operating outside the indicator ranges, the permittee shall take corrective actions to restore operation of the emissions unit and/or its control equipment to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution

control practices for minimizing emissions and comply with the reporting requirements specified in Section e) below. The emissions unit and control equipment shall be operated in accordance with the approved CAM Plan, or any approved revision of the Plan. The scrubbers shall not be configured to have bypass capability.  
[OAC rule 3745-77-07(C)(1) and 40 CFR Part 64]

- (4) Scrubber operating parameters shall be re-verified as a result of any changes to the operating conditions of the scrubbers or emissions unit. In addition to periodic monitoring of their scrubber operating parameters, the permittee also has an inspection and maintenance program for the scrubbers. Based on the results of the monitoring and inspection program, repairs to the scrubbers shall be made as needed. If the current CAM indicators and/or the scrubber inspection program is considered inadequate, the permittee will develop a Quality Improvement Plan.  
[OAC rule 3745-77-07(C)(1) and 40 CFR Part 64]
- (5) If the permittee identifies a failure to achieve compliance with an emission limitation or standard for which the approved monitoring did not provide an indication of an excursion or exceedance, the permittee shall promptly notify the appropriate Ohio EPA Northwest District Office, and if necessary, submit a proposed modification to the Title V permit to address the necessary monitoring changes. Such a modification may include, but is not limited to, re-establishing indicator ranges or designated conditions, modifying the frequency of conducting monitoring and collecting data, or the monitoring of additional parameters.  
[OAC rule 3745-77-07(C)(1) and 40 CFR Part 64]
- (6) In addition to the parametric monitoring required in d)(1), the permittee shall conduct visual inspections of the scrubber's spray nozzles every six (6) months. At a minimum, each spray nozzle shall be inspected for the following:
  - a. excessive wear, or clogging; and
  - b. appropriate directional output to ensure that the spray is covering the entire gas stream.

Records of these inspections shall be kept in accordance with the Standard Terms and Conditions of this permit.  
[OAC rule 3745-77-07(C)(1) and 40 CFR Part 64]

- (7) The permittee shall maintain a supply of replacement nozzles, or any other parts necessary to ensure that the scrubbing system will operate properly. Any worn, or clogged nozzles shall be replaced, or fixed during the inspection.  
[OAC rule 3745-77-07(C)(1) and 40 CFR Part 64]
- (8) At all times, the permittee shall maintain the monitoring, including but not limited to, maintaining necessary parts for routine repairs of the monitoring equipment.  
[OAC rule 3745-77-07(C)(1) and 40 CFR Part 64]

e) Reporting Requirements

- (1) The permittee shall submit quarterly deviation (excursion) reports, in accordance with the Standard Terms and Conditions of this permit, which include the following information:
- a. each period of time (start time and date, and end time and date) when the pressure drop across the scrubber and/or the scrubber motor amperes was/were outside of the appropriate range or exceeded the applicable limit contained in this permit;
  - b. any period of time (start time and date, and end time and date) when the emissions unit(s) was/were in operation and the process emissions were not vented to the scrubber;
  - c. each incident of deviation described in e)(1)a. or e)(1)b. (above) where a prompt investigation was not conducted;
  - d. each incident of deviation described in e)(1)a. or e)(1)b. where prompt corrective action, that would bring the pressure drop and/or scrubber motor amperes into compliance with the acceptable range, was determined to be necessary and was not taken; and
  - e. each incident of deviation described in e)(1)a. or e)(1)b. where proper records were not maintained for the investigation and/or the corrective action(s), as identified in the monitoring and record keeping requirements of this permit.
- [OAC rule 3745-77-07(C)(1) and 40 CFR Part 64]

f) Testing Requirements

- (1) Compliance with the Emissions Limitations and/or Control Requirements specified in section b) of these terms and conditions shall be determined in accordance with the following methods:
- a. Emission Limitation:  
44.0 lbs PE /hr  
  
Applicable Compliance Method:  
If required, the permittee shall demonstrate compliance with the PE limitation above through emission testing conducted in accordance OAC rule 3745-17-03(B)(10).  
[OAC rule 3745-77-07(C)(1)]
  - b. Emission Limitation:  
Visible PE shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.



**Final Title V Permit**  
National Lime & Stone Co. - Carey  
**Permit Number:** P0120829  
**Facility ID:** 0388000004  
**Effective Date:**8/18/2016

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with this emission limitation through visible emissions observations performed in accordance with OAC rule 3745-17-03(B)(1).  
[OAC rule 3745-77-07(C)(1)]

g) Miscellaneous Requirements

(1) None.

**6. P023, Pelletized Limestone Dryer**

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

Natural gas-fired 16 mmBtu/hr pelletized limestone dryer

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

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	ORC 3704.03(T) (PTI P0118634 issued April 10, 2015)	2.63 tons volatile organic compounds (VOC) per month, averaged over a twelve-month rolling period  2.22 tons carbon monoxide (CO) per month, averaged over a twelve-month rolling period  See b)(2)d.
b.	OAC rule 3745-31-05(A)(3) (PTI P0118634 issued April 10, 2015)	Use of a baghouse [See b)(2)a.]  1.60 lbs nitrogen oxides (NO <sub>x</sub> ) /hour and 7.01 tons NO <sub>x</sub> /year  2.06 lbs particulate emissions (PE) /hour and 9.02 tons PE /year [See b)(2)b.]  Visible PE shall not exceed 0% opacity, as a six-minute average.  No visible fugitive PE shall egress from the building enclosure.
c.	OAC rule 3745-18-06(E)	252 lbs sulfur dioxide (SO <sub>2</sub> )/hr  See b)(2)b.
d.	OAC rule 3745-17-07(A)	See b)(2)c.
e.	OAC rule 3745-17-11(B)	See b)(2)c.
f.	40 CFR, Part 64 – Compliance Assurance Monitoring (CAM)	See d)(2) through d)(4), and e)(2).

(2) Additional Terms and Conditions

- a. Best available technology (BAT) for this emissions unit has been determined to be use of total building enclosure and a baghouse control system with a maximum outlet concentration of 0.008 gr/dscf.
- b. The actual SO<sub>2</sub> emissions from this emissions unit are negligible because the combustion of natural gas is the only source of these emissions (the combustion of natural gas produces negligible amounts of SO<sub>2</sub> emissions).
- c. The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
- d. The 12-month average VOC and CO emission limitations represent the potential to emit for this emissions unit. Therefore, no monitoring, recordkeeping, or reporting requirements are necessary to ensure compliance with these emission limitations.

c) Operational Restrictions

- (1) The permittee shall burn only natural gas in this emissions unit.  
[OAC rule 3745-77-07(A)(1) and PTI P0118634]

d) Monitoring and/or Recordkeeping Requirements

- (1) For each day during which the permittee burns a fuel other than natural gas, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.  
[OAC rule 3745-77-07(C)(1) and PTI P0118634]
- (2) The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the baghouse stack serving this emissions unit and for any visible fugitive particulate emissions from the egress points (i.e., building windows, doors, roof monitors, etc.) serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
  - a. The color of the emissions (include the location for fugitive emissions);
  - b. The total duration of any visible emission incident; and
  - c. Any corrective actions taken to minimize or eliminate the visible emissions.  
[OAC rule 3745-77-07(C)(1), PTI P0118634, and 40 CFR Part 64]
- (3) The CAM plan for this emissions unit has been developed for particulate emissions. The CAM performance indicator for the baghouse controlling this emissions unit is daily visible emission checks. When the daily visible emission checks show operation outside its normal or usual manner of operation, the permittee shall take corrective actions to restore operation of the emissions unit and/or its control equipment to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution

control practices for minimizing emissions, and shall comply with the reporting requirements specified in Section e) below. The emissions unit and control equipment shall be operated in accordance with the approved CAM Plan, or any approved revision of the Plan.

[OAC rule 3745-77-07(C)(1) and 40 CFR Part 64]

- (4) If the permittee identifies a failure to achieve compliance with an emission limitation or standard for which the approved monitoring did not provide an indication of an excursion or exceedance, the permittee shall promptly notify the appropriate Ohio EPA District Office or local air agency, and if necessary, submit a proposed modification to the Title V permit to address the necessary monitoring changes. Such a modification may include, but is not limited to, re-establishing indicator ranges or designated conditions, modifying the frequency of conducting monitoring and collecting data, or the monitoring of additional parameters.

[OAC rule 3745-77-07(C)(1) and 40 CFR Part 64]

- (5) The PTI for this emissions unit was evaluated based on information contained in the PTI application associated with this emissions unit. Prior to any physical change or change in the method of operation (e.g. changing raw materials, organic binders, etc.) associated with this emissions unit, the permittee shall conduct an evaluation to determine if the change would constitute a "modification" as defined in OAC rule 3745-31-01. If any physical change in, or change(s) in the method of operation is (are) defined as a modification, then the permittee shall obtain a final PTIO modification prior to performing such change. The permittee shall collect, record, and retain all evaluation information and the final determination when modification evaluations are performed.

[OAC rule 3745-77-07(C)(1) and PTI P0118634]

- (6) Pursuant to OAC Rule 3745-77-07(A)(3)(a)(ii), the following monitoring and record keeping requirements are as stringent as or more stringent than the monitoring and record keeping requirements contained in Permit to Install # P0118634, issued on April 10, 2015: [d)(1)]. The monitoring and record keeping requirements contained in the above-referenced Permit to Install are subsumed into the monitoring and record keeping requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying monitoring and record keeping requirements in the Permit to Install.

[OAC rule 3745-77-07(A)(3)(a)(ii)]

e) Reporting Requirements

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

[OAC rule 3745-77-07(C)(1) and PTI P0118634]

- (2) The permittee shall submit semiannual written reports that (a) identify all days during which visible particulate emissions from the baghouse stack serving this emissions unit and/or any visible fugitive particulate emissions from the egress points were observed, and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA

District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.  
[OAC rule 3745-77-07(C)(1), PTI P0118634, and 40 CFR Part 64]

f) Testing Requirements

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

a. Emission Limitation:  
2.63 tons VOC per month, averaged over a twelve-month rolling period

Applicable Compliance Method:

The monthly allowable emission limitation represents the potential to emit\* which is based on the results of emissions testing performed on January 9, 2014. Therefore no monitoring, recordkeeping, or deviation reporting are required to demonstrate compliance with this limitation.

\* The potential to emit is based on a maximum hourly VOC mass rate of 7.30 lbs multiplied by the maximum available operating schedule over a 12-month period, of 24 hr/day and 30 day/month. If required, a future demonstration of the maximum hourly mass rate for VOC shall be determined in accordance with the test methods and procedures in 40 CFR Part 60, Appendix A, Methods 1-4 and 18, 25, and 25A, as applicable.  
[OAC rule 3745-77-07(C)(1) and PTI P0118634]

b. Emission Limitation:  
2.22 tons CO per month, averaged over a twelve-month rolling period

Applicable Compliance Method:

The monthly allowable emission limitation represents the potential to emit\* which is based on the results of emissions testing performed on January 9, 2014. Therefore no monitoring, recordkeeping, or deviation reporting are required to demonstrate compliance with this limitation.

\* The potential to emit is based on a maximum hourly CO mass rate of 5.37 lbs multiplied by the maximum available operating schedule over a 12-month period, of 24 hr/day and 30 day/month. If required, a future demonstration of the maximum hourly mass rate for VOC shall be determined in accordance with the test methods and procedures in 40 CFR Part 60, Appendix A, Methods 1-4 and 10.  
[OAC rule 3745-77-07(C)(1) and PTI P0118634]

c. Emission Limitation:  
1.60 lbs NO<sub>x</sub> /hour and 7.01 tons NO<sub>x</sub> /year

Applicable Compliance Method:

The hourly emission limitation was developed by multiplying an emission factor of 100 lb NO<sub>x</sub> /mmscf divided by 1000 Btu/scf [AP-42, Chapter 1, Table 1.4-1



(7/98)], then multiplying by a maximum firing capacity of 16 mmBtu/hr. If required, compliance with the lb/hr limitation shall be determined in accordance with the test methods and procedures in 40 CFR Part 60, Appendix A, Methods 1-4 and 7.

The annual limitation was determined by multiplying the hourly emission limitation by the maximum operating schedule of 8760 hrs/yr and 2000 lbs/ton. Therefore, provided compliance is shown with the hourly emission limitation, compliance with the annual limitation shall also be demonstrated.

[OAC rule 3745-77-07(C)(1) and PTI P0118634]

- d. Emission Limitation:  
2.06 lbs PE /hour and 9.02 tons PE /year

Applicable Compliance Method:

The hourly emissions limitation was developed by multiplying a maximum outlet concentration of 0.008 gr/dscf by the maximum volumetric air flow (30,000 acfm), using the appropriate conversion factors of 7000 grains/lb and 60 minutes/hr. If required, compliance with the particulate emission limitation shall be determined in accordance with the test methods and procedures in 40 CFR Part 60, Appendix A, Methods 1- 5.

The annual limitation was determined by multiplying the hourly emission limitation by the maximum operating schedule of 8760 hrs/yr and 2000 lbs/ton. Therefore, provided compliance is shown with the hourly emission limitation, compliance with the annual limitation shall also be demonstrated.

[OAC rule 3745-77-07(C)(1) and PTI P0118634]

- e. Emissions Limitation:  
Visible PE shall not exceed 0% opacity, as a six-minute average.

Applicable Compliance Method:

If required, compliance shall be determined in accordance with 40 CFR Part 60, Appendix A, Method 9.

[OAC rule 3745-77-07(C)(1) and PTI P0118634]

- f. Emission Limitation:  
No visible fugitive PE shall egress from the building enclosure.

Applicable Compliance Method:

If required, compliance with the visible emission limitation specified above shall be determined in accordance with 40 CFR Part 60, Appendix A, Method 22.

[OAC rule 3745-77-07(C)(1) and PTI P0118634]

- g. Emission Limitation:  
252 lbs SO<sub>2</sub> /hr

Applicable Compliance Method:

Compliance with the hourly SO<sub>2</sub> emission limitation shall be assumed as long as natural gas is the only fuel combusted in this emissions unit. If required, the



**Final Title V Permit**  
National Lime & Stone Co. - Carey  
**Permit Number:** P0120829  
**Facility ID:** 0388000004  
**Effective Date:** 8/18/2016

permittee shall demonstrate compliance by testing in accordance with Methods 1 - 4 and 6 of 40 CFR, Part 60, Appendix A.  
[OAC rule 3745-77-07(C)(1) and PTI P0118634]

g) Miscellaneous Requirements

- (1) None.



**7. P024, Pelletizing Plant: Crushing, Screening, and Mtl. Hand.**

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

Pellet Plant crushing, screening, conveying and material handling operations (with baghouse)

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

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3) (PTI P0109685, issued April 19, 2012)	Use of building enclosure vented to baghouse system [See b)(2)a.]  0.87 lbs particulate emissions (PE)/hr and 3.81 tons PE/yr [See b)(2)d.]  No visible fugitive PE shall egress from the building enclosure. [See b)(2)b.]  Visible particulate emissions from baghouse stack, P024-1BH, shall not exceed 0% opacity, as a six-minute average. [See b)(2)b.]
b.	OAC rule 3745-17-07(A)	See b)(2)c.
c.	OAC rule 3745-17-11(B)	See b)(2)c.
d.	40 CFR, Part 64 - Compliance Assurance Monitoring (CAM)	See d)(1) through d)(3), and e)(1).

(2) Additional Terms and Conditions

a. Best available technology (BAT) requirements for this emissions unit has been determined to be use of total building enclosure vented to a baghouse control system with a maximum outlet concentration of 0.01 gr/dscf. The baghouse control system is comprised of three baghouses [See b)(2)b. and f)(1)a.], two vented inside the enclosure and one vented outside.

b. Visible particulate emissions and BAT requirements for the material handling operations shall comply with the following:

<b>Emissions Point (Company ID)</b>	<b>Equipment Type</b>	<b>BAT Control Requirements</b>	<b>Opacity Limitations</b>
Screw Conveyor (SC5)	transfer point	building enclosure and baghouse	0%-stack P024-1BH no visible emissions from building
Munson Mixer (MM1)	transfer point	building enclosure and baghouse	0%-stack P024-1BH no visible emissions from building
Limestone Surge Bin (B1)	transfer point	building enclosure and baghouse	no visible emissions from building (P024-4BH vents inside the building)
Recycle Surge Bin (B1)	transfer point	building enclosure and baghouse	no visible emissions from building (P024-5BH vents inside the building)
Feeder (F3)	transfer point	building enclosure and baghouse	0%-stack P024-1BH no visible emissions from building
Limestone Weight Feeder (F1)	transfer point	building enclosure and baghouse	0%-stack P024-1BH no visible emissions from building
Screw Conveyor (SC7)	transfer point	building enclosure and baghouse	0%-stack P024-1BH no visible emissions from building
Screw Conveyor (SC8)	transfer point	building enclosure and baghouse	0%-stack P024-1BH no visible emissions from building
Screw Conveyor (SC9)	transfer point	building enclosure and baghouse	0%-stack P024-1BH no visible emissions from building
Screw Conveyor (SC10)	transfer point	building enclosure and baghouse	0%-stack P024-1BH no visible emissions from building
Screw Conveyor (SC11)	transfer point	building enclosure and baghouse	0%-stack P024-1BH no visible emissions from building
Screw Conveyor (SC13)	transfer point	building enclosure and baghouse	0%-stack P024-1BH no visible emissions from building
Screw Conveyor (SC14)	transfer point	building enclosure and baghouse	0%-stack P024-1BH no visible emissions from building
Screw Conveyor (SC15)	transfer point	building enclosure and baghouse	0%-stack P024-1BH no visible emissions from building

<b>Emissions Point (Company ID)</b>	<b>Equipment Type</b>	<b>BAT Control Requirements</b>	<b>Opacity Limitations</b>
Screw Conveyor (SC16)	transfer point	building enclosure and baghouse	0%-stack P024-1BH no visible emissions from building
Screw Conveyor (SC17)	transfer point	building enclosure and baghouse	0%-stack P024-1BH no visible emissions from building
Screw Conveyor (SC18)	transfer point	building enclosure and baghouse	0%-stack P024-1BH no visible emissions from building
Turbulator (TB1)	transfer point	building enclosure and baghouse	0%-stack P024-1BH no visible emissions from building
Pelletizer (PP1)	transfer point	building enclosure and baghouse	0%-stack P024-1BH no visible emissions from building
Conveyor (C1)	transfer point	building enclosure and baghouse	0%-stack P024-1BH no visible emissions from building
Conveyor (C2)	transfer point	building enclosure and baghouse	0%-stack P024-1BH no visible emissions from building
Vibrating Conveyor (VC1)	transfer point	building enclosure and baghouse	0%-stack P024-1BH no visible emissions from building
Elevator (E2)	transfer point	building enclosure and baghouse	0%-stack P024-1BH no visible emissions from building
Scalping Screen (S2)	screening	building enclosure and baghouse	0%-stack P024-1BH no visible emissions from building
Cage Mill (CR2)	crushing	building enclosure and baghouse	0%-stack P024-1BH no visible emissions from building
Screen (S1)	screening	building enclosure and baghouse	0%-stack P024-1BH no visible emissions from building
Roll Crusher (CR1)	crushing	building enclosure and baghouse	0%-stack P024-1BH no visible emissions from building

- c. The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3475-31-05(A)(3).
- d. All particulate emissions are assumed to be particulate matter less than 10 microns in size (PM<sub>10</sub>).

- c) Operational Restrictions
  - (1) None.
- d) Monitoring and/or Recordkeeping Requirements
  - (1) The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the baghouse stack vented outside the building (Baghouse P024-1BH) serving this emissions unit and for any visible fugitive particulate emissions from the egress points (i.e., building windows, doors, roof monitors, etc.) serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
    - a. The color of the emissions (include the location for fugitive emissions);
    - b. The total duration of any visible emission incident; and
    - c. Any corrective actions taken to minimize or eliminate the visible emissions.  
[OAC rule 3745-77-07(C)(1), PTI P0109685, and 40 CFR Part 64]
  - (2) The CAM plan for this emissions unit has been developed for particulate emissions. The CAM performance indicator for the baghouse controlling this emissions unit is daily visible emission checks. When the daily visible emission checks show operation outside its normal or usual manner of operation, the permittee shall take corrective actions to restore operation of the emissions unit and/or its control equipment to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions, and shall comply with the reporting requirements specified in Section e) below. The emissions unit and control equipment shall be operated in accordance with the approved CAM Plan, or any approved revision of the Plan.  
[OAC rule 3745-77-07(C)(1) and 40 CFR Part 64]
  - (3) If the permittee identifies a failure to achieve compliance with an emission limitation or standard for which the approved monitoring did not provide an indication of an excursion or exceedance, the permittee shall promptly notify the appropriate Ohio EPA District Office or local air agency, and if necessary, submit a proposed modification to the Title V permit to address the necessary monitoring changes. Such a modification may include, but is not limited to, re-establishing indicator ranges or designated conditions, modifying the frequency of conducting monitoring and collecting data, or the monitoring of additional parameters.  
[OAC rule 3745-77-07(C)(1) and 40 CFR Part 64]
  - (4) Pursuant to OAC Rule 3745-77-07(A)(3)(a)(ii), the following monitoring and record keeping requirements are as stringent as or more stringent than the monitoring and record keeping requirements contained in Permit to Install # P0109685, issued on April 19, 2012: [d)(1)]. The monitoring and record keeping requirements contained in the above-referenced Permit-to-Install are subsumed into the monitoring and record keeping requirements of this operating permit, so that compliance with these requirements



constitutes compliance with the underlying monitoring and record keeping requirements in the Permit to Install.  
 [OAC rule 3745-77-07(A)(3)(a)(ii)]

e) Reporting Requirements

- (1) The permittee shall submit semiannual written reports that (a) identify all days during which visible particulate emissions from the baghouse stacks serving this emissions unit and/or any visible fugitive particulate emissions from the egress points were observed, and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.  
 [OAC rule 3745-77-07(C)(1), PTI P0109685, and 40 CFR Part 64]

f) Testing Requirements

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

- a. Emission Limitation:  
 0.87 lb PE/hour from baghouse stack

Applicable Compliance Method:

The permittee shall demonstrate compliance in accordance with the following calculation:

PE will be controlled by a baghouse control system consisting of three baghouses. The three baghouse stacks will result in a combined emission of 0.87 lbs PE/hr as determined in accordance with the following:

$$PE(\text{baghouse stack}) = (P024-1BH) + (P024-4BH) + (P024-5BH)$$

P024-1BH = PE from all material handling operations not controlled by other baghouses

$$= (0.01 \text{ gr/ft}^3) (5625 \text{ ft}^3/\text{min}) (60 \text{ min/hr}) (\text{lb}/7000 \text{ gr}) = 0.48 \text{ lb PE/hr}$$

\*The maximum volumetric air flow for this baghouse is 7500 acfm. 5625 acfm (75%) is dedicated to P024-1BH and 1875 ft<sup>3</sup> /min is dedicated to a different emissions unit (P901).

P024-4BH = PE from limestone surge bin of P024

$$= (0.01 \text{ gr/ft}^3) (2880 \text{ ft}^3/\text{min}) (60 \text{ min/hr}) (\text{lb}/7000 \text{ gr}) = 0.25 \text{ lb PE/hr}$$

P024-5BH = PE from recycle surge bin of P024

$$= (0.01 \text{ gr/ft}^3) (1600 \text{ ft}^3/\text{min}) (60 \text{ min/hr}) (\text{lb}/7000 \text{ gr}) = 0.14 \text{ lb PE/hr}$$



PE (baghouse stack) = (0.48 lb PE/hr) + (0.25 lb PE/hr) + (0.14 lb PE/hr) = 0.87 lb PE/hr

If required the permittee shall demonstrate compliance by testing in accordance with 40 CFR 60, Appendix A, Methods 1-5.  
[OAC rule 3745-77-07(C)(1) and PTI P0109685]

- b. Emission Limitation:  
3.81 tons PE /year, from baghouse stacks

Applicable Compliance Method:  
The annual limitation was determined by multiplying the hourly emission limitation by the maximum operating schedule of 8760 hrs/yr and 2000 lbs/ton. Therefore, provided compliance is shown with the hourly emission limitation, compliance with the annual limitation shall also be demonstrated.  
[OAC rule 3745-77-07(C)(1) and PTI P0109685]

- c. Emission Limitation:  
No visible particulate emissions from building enclosures

Applicable Compliance Method:  
If required, compliance with the visible emission limitation specified above shall be determined in accordance with 40 CFR Part 60, Appendix A, Method 22.  
[OAC rule 3745-77-07(C)(1) and PTI P0109685]

- d. Emission Limitation:  
Visible particulate emissions from the baghouse stack, P024-1BH shall not exceed 0% opacity, as a six-minute average

Applicable Compliance Method:  
If required, compliance with the visible emission limitation specified above shall be determined in accordance with 40 CFR Part 60, Appendix A, Method 9.  
[OAC rule 3745-77-07(C)(1) and PTI P0109685]

- g) Miscellaneous Requirements

- (1) None.

**8. P026, Wood Flour Receiving, Conveying, and Storage Operations**

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

Wood flour receiving, conveying, and storage operations at the Pelletizing Plant

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

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3) (P0105194, issued September 9, 2009)	0.61 ton particulate emissions (PE) /yr  0.01 gr PE /dscf [See b)(2)a.]  Visible PE shall not exceed 5% opacity as a six-minute average.  No visible fugitive PE shall be emitted from material receiving and conveying operations. [See b)(2)c.]
b.	OAC rule 3745-17-07(A)	See b)(2)b.
c.	OAC rule 3745-17-11(B)	See b)(2)b.

(2) Additional Terms and Conditions

a. The Best Available Technology (BAT) requirements for this emissions unit has been determined to be the use of a baghouse (bin vent) with a maximum outlet concentration of 0.01 gr PE /dscf for the wood flour surge bin and use of total enclosure for the stilling shed.

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

c. The visible emission restriction is being established to ensure that the design and operation of the emissions unit does not generate any fugitive particulate emissions. Since the design and operation of the emissions unit does not generate any fugitive emissions, the emissions unit is not applicable to OAC rule 3745-17-07(B) and OAC rule 3745-17-08.

- c) Operational Restrictions
  - (1) None.
- d) Monitoring and/or Recordkeeping Requirements
  - (1) The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
    - a. the color of the emissions;
    - b. whether the emissions are representative of normal operations;
    - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
    - d. the total duration of any visible emission incident; and
    - e. any corrective actions taken to eliminate the visible emissions.  
[OAC rule 3745-77-07(C)(1) and P0105194]
  - (2) The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible fugitive emissions from the receiving and conveying operations of this emissions unit. The presence or absence of any visible fugitive emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
    - a. the location and color of the emissions;
    - b. the total duration of any visible fugitive emission incident; and
    - c. any corrective actions taken to eliminate the visible fugitive emissions.  
[OAC rule 3745-77-07(C)(1) and P0105194]
- e) Reporting Requirements
  - (1) The permittee shall submit semiannual written reports that identify:
    - a. all days during which any visible particulate emissions were observed from the stack serving this emissions unit;
    - b. all days during which any visible fugitive particulate emissions were observed from the receiving and conveying operations of this emissions unit; and
    - c. any corrective actions taken to minimize or eliminate the visible particulate and/or visible fugitive particulate emissions.



These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.  
[OAC rule 3745-77-07(C)(1) and P0105194]

f) Testing Requirements

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

a. Emission Limitation:  
0.61 ton PE /yr

Applicable Compliance Method:

The annual limitation was established by multiplying the maximum outlet concentration of 0.01 gr PE /dscf and the maximum volumetric air flow rate (1,600 acfm) of the baghouse (bin vent) and using the following conversion factors in order to convert to tons per year: 1 lb /7000 grains, 60 minutes /hour, 8,760 hours /year, and 1 ton /2,000 lbs. Therefore, provided compliance is demonstrated with the 0.01 gr PE /dscf limitation, compliance with the annual limitation will be assumed.

If required, demonstration of the maximum volumetric air flow rate shall be determined in accordance with the test methods and procedures specified in 40 CFR, Part 60, Appendix A, Methods 1-4.

[OAC rule 3745-77-07(C)(1) and P0105194]

b. Emission Limitation:  
0.01 gr PE /dscf

Applicable Compliance Method:

This emission limitation was established using the manufacturer's guaranteed outlet concentration. If required, compliance with this limitation shall be based on stack testing using the methods and procedures specified in 40 CFR, Part 60, Appendix A - Methods 1-5.

[OAC rule 3745-77-07(C)(1) and P0105194]

c. Emission Limitation:

Visible particulate emissions shall not exceed 5% opacity, as a six-minute average.

Applicable Compliance Method:

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

[OAC rule 3745-77-07(C)(1) and P0105194]



d. Emission Limitation:  
No visible emissions from the material receiving and conveying operations

Applicable Compliance Method:  
If required, the permittee shall demonstrate compliance by testing in accordance with Method 22 of 40 CFR, Part 60, Appendix A.  
[OAC rule 3745-77-07(C)(1) and P0105194]

g) Miscellaneous Requirements

(1) None.



**9. P901, Pelletizing Plant Loadout with 3 Bins**

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

Pelletizing plant load-out operation

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

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3) (PTI 03-7409, as modified June 12, 2008)	Control requirements [See b)(2)a.]  <u>Baghouse stack:</u> 0.16 lb particulate emissions (PE) /hour and 0.70 ton PE /year [See b)(2)c.]  Visible PE shall not exceed 0% opacity, as a six-minute average, from baghouse stack.  <u>Fugitive emissions:</u> 5.40 tons PE /year  Visible PE shall not exceed 5% opacity, as a six-minute average, from partial enclosure for truck /railcar load-out operations.
b.	OAC rule 3745-17-07(A)	See b)(2)b.
c.	OAC rule 3745-17-07(B)	See b)(2)b.
d.	OAC rule 3745-17-08(B)	See b)(2)b.
e.	OAC rule 3745-17-11(B)	See b)(2)b.

(2) Additional Terms and Conditions

a. The Best Available Technology (BAT) requirements for emissions unit P901 have been determined to be:



- i. Use of a partial building enclosure and telescoping chutes for truck /railcar load-out operations; and
    - ii. Use of a baghouse, for control of the bucket elevators, screw conveyors, and product bins, with a maximum outlet concentration of 0.01 gr/dscf.
  - b. The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
  - c. All PE from the baghouse are assumed to be PM<sub>10</sub>.
- c) Operational Restrictions
  - (1) The maximum annual material throughput for emissions unit P901 shall not exceed 72,000 tons per year.  
[OAC rule 3745-77-07(A)(1) and PTI 03-7409]
- d) Monitoring and/or Recordkeeping Requirements
  - (1) The permittee shall maintain monthly records of the amount of material throughput for this emissions unit (in tons per month and total tons, to date for the calendar year).  
[OAC rule 3745-77-07(C)(1) and PTI 03-7409]
  - (2) The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the baghouse stack serving this emissions unit, and for any visible fugitive particulate emissions from the egress points (i.e., building windows, doors, roof monitors, etc.) serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
    - a. The color of the emissions (include the location for fugitive emissions);
    - b. The total duration of any visible emission incident; and
    - c. Any corrective actions taken to minimize or eliminate the visible emissions.  
[OAC rule 3745-77-07(C)(1) and PTI 03-7409]
- e) Reporting Requirements
  - (1) The permittee shall submit semiannual written reports that (a) identify all days during which visible particulate emissions from the baghouse stack serving this emissions unit and/or any visible fugitive particulate emissions from the egress points were observed, and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.  
[OAC rule 3745-77-07(C)(1) and PTI 03-7409]
  - (2) The permittee shall submit annual deviation (excursion) reports which identify any exceedances of the annual material throughput limitation. If no deviations occurred, the

permittee shall submit an annual report, which states no deviations occurred during that year. These reports shall be submitted by January 31 of each year and shall cover the previous calendar year.

[OAC rule 3745-77-07(C)(1) and PTI 03-7409]

f) Testing Requirements

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

a. Emission Limitation:  
0.16 lb PE/hr and 0.70 ton PE/year from baghouse

Applicable Compliance Method:

The permittee shall demonstrate compliance with the hourly limitation by multiplying a baghouse maximum outlet concentration of 0.01 gr /dscf, a maximum volumetric air flow rate of 1875 acfm and conversion factors of 7000 grains/lb and 60 min/hr. If required, compliance with the particulate emission limitation shall be determined in accordance with the test methods and procedures in 40 CFR Part 60, Appendix A, Methods 1- 5.

\*The maximum volumetric air flow for this baghouse is 7500 acfm. 1875 acfm (25%) is dedicated to P901 and 5625 acfm is dedicated to emission unit P024.

The annual limitation was determined by multiplying the hourly emission limitation by the maximum operating schedule of 8760 hrs/yr and 2000 lbs/ton. Therefore, provided compliance is shown with the hourly emission limitation, compliance with the annual limitation shall also be demonstrated.

[OAC rule 3745-77-07(C)(1) and PTI 03-7409]

b. Emission Limitation:  
Visible PE shall not exceed 0% opacity, as a six-minute average, from baghouse stack.

Applicable Compliance Method:

If required, compliance with the visible emission limitation specified above shall be determined in accordance with 40 CFR Part 60, Appendix A, Method 9.

[OAC rule 3745-77-07(C)(1) and PTI 03-7409]

c. Emission Limitation:  
5.40 tons PE/year (fugitive)

Applicable Compliance Method:

The permittee shall demonstrate compliance with this emission limitation by multiplying an emission factor of 1.5 lbs PM /ton handled [AP-42, Chapter 11.17, Table 11.17-4 (2/98)], the maximum annual material throughput of 72,000 tons/year and a control efficiency of 95% obtained from the use of a partial enclosure and telescoping chutes.

[OAC rule 3745-77-07(C)(1) and PTI 03-7409]



- d. Emission Limitation:  
Visible PE shall not exceed 5% opacity, as a six-minute average, from partial enclosure for truck/railcar lead-out.

Applicable Compliance Method:

If required, compliance with the visible emission limitation specified above shall be determined in accordance with 40 CFR Part 60, Appendix A, Method 9. [OAC rule 3745-77-07(C)(1) and PTI 03-7409]

- g) Miscellaneous Requirements

- (1) None.

**10. P902, Portable Drill**

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

portable drill (with baghouse)

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

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3) (PTI 03-7839 issued March 23, 1994)	0.69 lb particulate emissions (PE)/hr and 3.02 tons PE/yr (from baghouse)  Best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust [See b)(2)b. and b)(2)c.]  See b)(2)a.
b.	OAC rule 3745-17-07(A)	Visible PE shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.
c.	OAC rule 3745-17-07(B)(1)	Visible fugitive PE shall not exceed 20% opacity, as a 3-minute average.
d.	OAC rule 3745-17-08(B)	See b)(2)d.
e.	OAC rule 3745-17-11(B)	See b)(2)e.

(2) Additional Terms and Conditions

a. Compliance with this rule also includes compliance with OAC rules 3745-17-07(A) and 3745-17-07(B)(1).

b. Any drill used at this facility shall employ best available control measures at all times for the control of fugitive dust emissions. The following control techniques shall be employed for the drilling operations: use of a fabric filter control system on the drill.



- c. No "contract drilling" shall occur at this facility without the permittee first certifying, in writing to the Ohio EPA, Northwest District Office, that the contractor's drilling rig employs best available control measures.
- d. The fugitive PE control measures specified by this rule are less stringent than the fugitive PE control measures established pursuant to OAC rule 3745-31-05(A)(3).
- e. The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

c) Operational Restrictions

- (1) None.

d) Monitoring and/or Recordkeeping Requirements

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

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

[OAC rule 3745-77-07(C)(1) and PTI 03-7839]

e) Reporting Requirements

- (1) The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit, (b) identify all days during which any visible fugitive particulate emissions



were observed from the from the egress points (i.e., building windows, doors, roof monitors, etc.) serving this emissions unit, and (c) describe any corrective actions taken to minimize or eliminate the visible particulate and/or visible fugitive particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.  
[OAC rule 3745-77-07(C)(1) and PTI 03-7839]

f) Testing Requirements

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

a. Emission Limitation:  
0.69 lb PE/hr

Applicable Compliance Method:

The permittee may demonstrate compliance with the hourly allowable PE limitation by multiplying the manufacturer's guaranteed maximum outlet concentration (0.03 grain/dscf) by the fabric filter's maximum volumetric air flow (2700 acfm) and by 60, and then dividing by 7000.

If required, compliance with the hourly allowable PE limitation shall be demonstrated through emission tests performed in accordance with Methods 1 through 5 of 40 CFR, Part 60, Appendix A.

[OAC rule 3745-77-07(C)(1) and PTI 03-7839]

b. Emission Limitation:  
3.02 tons PE/yr

Applicable Compliance Method:

The ton per year limitation was developed by multiplying the lb/hr allowable mass emission rate by the maximum operating schedule of 8760 hrs/yr, and dividing by 2000 lbs/ton. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

[OAC rule 3745-77-07(C)(1) and PTI 03-7839]

c. Emission Limitation:

Visible PE shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance pursuant to the method and procedures specified in OAC rule 3745-17-03(B)(1).

[OAC rule 3745-77-07(C)(1) and PTI 03-7839]

d. Emission Limitation:

Visible PE shall not exceed 20% opacity, as a 3-minute average.



**Final Title V Permit**  
National Lime & Stone Co. - Carey  
**Permit Number:** P0120829  
**Facility ID:** 0388000004  
**Effective Date:** 8/18/2016

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance pursuant to the method and procedures specified in OAC rule 3745-17-03(B)(3).

[OAC rule 3745-77-07(C)(1) and PTI 03-7839]

g) Miscellaneous Requirements

(1) None.



**11. P903, Dried Stone Plant - Coarse Stone Loadouts**

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

Load-out operations of coarse limestone to either truck or railcar from storage bins #1 - #5 of Coarse Stone Bins at the Dried Stone Plant

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

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-17-07(A)	Visible particulate emissions (PE) from the baghouse stack shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.
b.	OAC rule 3745-17-07(B)	Visible fugitive PE shall not exceed 20% opacity, as a 3-minute average. [See b)(2)a.]
c.	OAC rule 3745-17-08(B)(3)	Reasonably available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust [See b)(2)b.]
d.	OAC rule 3745-17-11(B)	46.7 lbs PE /hr
e.	40 CFR, Part 64 – Compliance Assurance Monitoring (CAM)	See d)(1) through d)(3), and e)(1).

(2) Additional Terms and Conditions

a. The visible fugitive PE from the following emission points comprising this emissions unit and subject to OAC rule 3745-17-07(B) shall not exceed 20% opacity, as a 3-minute average:

Emission Point: conveyor 1 to truck lead-out spout  
Equipment Type: transfer point

Emission Point: conveyor 1 to conveyor 2  
Equipment Type: transfer point



Emission Point: conveyor 2 to railcar lead-out spout  
Equipment Type: transfer point

- 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 a partial enclosure around the lead-out operations and the use of hooding 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 within the partial enclosure shall be vented to a baghouse. The baghouse shall either achieve an outlet PE rate of not greater than 0.030 grain/dscf or have no visible PE from its exhaust stack, whichever is less stringent.
  
- c) Operational Restrictions
  - (1) None.
  
- d) Monitoring and/or Recordkeeping Requirements
  - (1) The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack and for any visible fugitive particulate emissions from the egress points (i.e., building windows, doors, roof monitors, etc.) serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
    - a. the location and color of the emissions;
    - b. whether the emissions are representative of normal operations;
    - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
    - d. the total duration of any visible emission incident; and
    - e. any corrective actions taken to minimize or eliminate the visible emissions.

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

emissions unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible emissions.  
[OAC rule 3745-77-07(C)(1) and 40 CFR Part 64]

- (2) The CAM plan for this emissions unit has been developed for particulate emissions. The CAM performance indicator for the baghouse controlling this emissions unit is daily visible emission checks. When the daily visible emission checks show operation outside its normal or usual manner of operation, the permittee shall take corrective actions to restore operation of the emissions unit and/or its control equipment to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions, and shall comply with the reporting requirements specified in Section e) below. The emissions unit and control equipment shall be operated in accordance with the approved CAM Plan, or any approved revision of the Plan.

[OAC rule 3745-77-07(C)(1) and 40 CFR Part 64]

- (3) If the permittee identifies a failure to achieve compliance with an emission limitation or standard for which the approved monitoring did not provide an indication of an excursion or exceedance, the permittee shall promptly notify the appropriate Ohio EPA District Office or local air agency, and if necessary, submit a proposed modification to the Title V permit to address the necessary monitoring changes. Such a modification may include, but is not limited to, re-establishing indicator ranges or designated conditions, modifying the frequency of conducting monitoring and collecting data, or the monitoring of additional parameters.

[OAC rule 3745-77-07(C)(1) and 40 CFR Part 64]

e) Reporting Requirements

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

[OAC rule 3745-77-07(C)(1) and 40 CFR Part 64]

f) Testing Requirements

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

a. Emission Limitation:

Visible PE shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.



Applicable Compliance Method:

If required, the permittee shall demonstrate compliance pursuant to the method and procedures specified in OAC rule 3745-17-03(B)(1).  
[OAC rule 3745-77-07(C)(1)]

b. Emission Limitation:

Visible PE shall not exceed 20% opacity, as a 3-minute average.

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance pursuant to the method and procedures specified in OAC rule 3745-17-03(B)(3).  
[OAC rule 3745-77-07(C)(1)]

c. Emission Limitation:

0.030 gr PE/dscf

Applicable Compliance Method:

If required, compliance with the 0.030 gr PE/dscf emission limitation shall be demonstrated through emission tests performed in accordance with OAC rule 3745-17-03(B)(7).  
[OAC rule 3745-77-07(C)(1)]

d. Emission Limitation:

no visible PE from the baghouse exhaust stack

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with the allowable visible PE limitation above through visible emissions observations performed in accordance with 40 CFR, Part 60, Appendix A, Method 22.  
[OAC rule 3745-77-07(C)(1)]

e. Emission Limitation:

46.7 lbs PE /hr

Applicable Compliance Method:

If required, compliance with the hourly allowable PE limitation shall be demonstrated through emission tests performed in accordance with OAC rule 3745-17-03(B)(10).  
[OAC rule 3745-77-07(C)(1)]

g) Miscellaneous Requirements

(1) None.



**12. P904, Dried Stone Plant - Fine Stone Loadouts**

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

Dried Stone Plant - Fine Stone Loadouts

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

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-17-07(A)	Visible particulate emissions (PE) from the baghouse stack shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.
b.	OAC rule 3745-17-07(B)	Visible fugitive PE shall not exceed 20% opacity, as a 3-minute average.
c.	OAC rule 3745-17-08(B)(3)	Reasonably available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust [See b)(2)a.]
d.	OAC rule 3745-17-11(B)	58.5 lbs PE /hr
e.	40 CFR, Part 64 – Compliance Assurance Monitoring (CAM)	See d)(1) through d)(3), and e)(1).

(2) Additional Terms and Conditions

a. The permittee shall employ reasonably available control measures 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 a partial enclosure around the lead-out operations and the use of hooding 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 within the partial enclosure shall be vented to a baghouse [AAF-BGHS].

c) Operational Restrictions

(1) None.

d) Monitoring and/or Recordkeeping Requirements

(1) The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack and for any visible fugitive particulate emissions from the egress points (i.e., building windows, doors, roof monitors, etc.) serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:

- a. the location and color of the emissions;
- b. whether the emissions are representative of normal operations;
- c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
- d. the total duration of any visible emission incident; and
- e. any corrective actions taken to minimize or eliminate the visible emissions.

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

[OAC rule 3745-77-07(C)(1) and 40 CFR, Part 64]

(2) The CAM plan for this emissions unit has been developed for particulate emissions. The CAM performance indicator for the baghouse controlling this emissions unit is daily visible emission checks. When the daily visible emission checks show operation outside its normal or usual manner of operation, the permittee shall take corrective actions to restore operation of the emissions unit and/or its control equipment to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions, and shall comply with the reporting requirements specified in Section e) below. The emissions unit and control equipment shall be operated in accordance with the approved CAM Plan, or any approved revision of the Plan.

[OAC rule 3745-77-07(C)(1) and 40 CFR Part 64]

(3) If the permittee identifies a failure to achieve compliance with an emission limitation or standard for which the approved monitoring did not provide an indication of an excursion

or exceedance, the permittee shall promptly notify the appropriate Ohio EPA District Office or local air agency, and if necessary, submit a proposed modification to the Title V permit to address the necessary monitoring changes. Such a modification may include, but is not limited to, re-establishing indicator ranges or designated conditions, modifying the frequency of conducting monitoring and collecting data, or the monitoring of additional parameters.

[OAC rule 3745-77-07(C)(1) and 40 CFR, Part 64]

e) Reporting Requirements

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

[OAC rule 3745-77-07(C)(1) and 40 CFR Part 64]

f) Testing Requirements

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

a. Emission Limitation:

Visible PE shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance pursuant to the method and procedures specified in OAC rule 3745-17-03(B)(1).

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

b. Emission Limitation:

Visible PE shall not exceed 20% opacity, as a 3-minute average.

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance pursuant to the method and procedures specified in OAC rule 3745-17-03(B)(3).

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

c. Emission Limitation:

58.5 lbs PE/hr



**Final Title V Permit**  
National Lime & Stone Co. - Carey  
**Permit Number:** P0120829  
**Facility ID:** 0388000004  
**Effective Date:**8/18/2016

Applicable Compliance Method:

If required, compliance with the hourly allowable PE limitation shall be demonstrated through emission tests performed in accordance with OAC rule 3745-17-03(B)(10).

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

g) Miscellaneous Requirements

(1) None.



**13. P905, Dried Stone Plant - Crushing, Screening, Mat. Handling**

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

dried limestone plant - crushing, screening, and material handling operations - with building enclosure and controlled by 4 baghouses and a wet scrubber.

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

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-17-07(A)	Visible (point) particulate emissions (PE) shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.
b.	OAC rule 3745-17-07(B)	Visible fugitive PE shall not exceed 20% opacity, as a 3-minute average. [See b)(2)a.]
c.	OAC rule 3745-17-08(B)(3)	Reasonably available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust [See b)(2)b.]
d.	OAC rule 3745-17-11(B)	64.5 lbs of PE/hr [See b)(2)c.]
e.	40 CFR, Part 64 – Compliance Assurance Monitoring (CAM)	See d)(1) through d)(8), e)(1) and e)(2).

(2) Additional Terms and Conditions

a. Visible fugitive PE from the building enclosure controlling the following emission points and subject to OAC rule 3745-17-07(B) shall not exceed 20% opacity, as a 3-minute average:

Emission Point	Equipment Type
front end loader to feed hopper	transfer point
conveyor 45	transfer point



<b>Emission Point</b>	<b>Equipment Type</b>
conveyor 24	transfer point
conveyor 25	transfer point
conveyor 27	transfer point
DO dryer feed bin	transfer point
screw conveyor 1	transfer point
DO dryer	transfer point
screw conveyor 25	transfer point
screen 27	screen
screen 28	screen
screen 29	screen
screw conveyor 27	transfer point
screw conveyor 26	transfer point
elevator 18	transfer point
surge bin	transfer point
feeder 7	transfer point
crusher 1	crusher
screw conveyor 28	transfer point
elevator 19	transfer point
screen 30	screen
air separator 1	transfer point
conveyor 32	transfer point
screen 31	screen
air separator 2	transfer point
conveyor 32	transfer point



<b>Emission Point</b>	<b>Equipment Type</b>
air separator 1	transfer point
screw conveyor 31	transfer point
screw conveyor 32	transfer point
screw conveyor 33	transfer point
DRP feed bins	transfer point
screw conveyor 34	transfer point
elevator 12	transfer point
screw conveyor 8	transfer point
air separator 5	transfer point
DRP bin 3	transfer point
screen 20	screen
DRP bin 1	transfer point
DRP bin 2	transfer point
crusher 1 surge bin	transfer point
screw conveyor 26	transfer point
conveyor 32	transfer point
conveyor 33	transfer point
conveyor 34	transfer point
screw conveyor 2	transfer point
screen 12	screen
bin 4	transfer point
conveyor 44	transfer point
conveyor 43	transfer point
conveyor 42	transfer point



<b>Emission Point</b>	<b>Equipment Type</b>
bin 2	transfer point
screen 13	screen
bin 3	transfer point
screen 16	screen
screen 26	screen
screen 21	screen
bin 5	transfer point
conveyor 1	transfer point
bin 5	transfer point
coarse fraction cyclone	transfer point
hopper 4476	transfer point
DRP bin 7	transfer point
DRP bin 9	transfer point
DRP bin 10	transfer point
fine fraction cyclone	transfer point
hopper 4477	transfer point
crew conveyor 15	transfer point
bin 6	transfer point
AAF baghouse	transfer point
screw conveyor 37	transfer point
screw conveyor 41	transfer point
screw conveyor 22	transfer point
elevator 12	transfer point



- b. The permittee shall employ reasonably available control measures 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 a building enclosure around the crushing, screening, and material handling operations and the use of hooding 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 within the enclosure shall be vented to a baghouse (AAF-BGHS), and a wet scrubber /mist eliminator.
  - c. The total PE from this emissions unit is emitted from the following emission points: Baghouse AAF-BGHS and Wet Scrubber P905-700WS. The limitation of 64.5 lbs PE/hr was established pursuant to OAC rule 3745-17-11(B) – Table 1 and was based upon the uncontrolled mass rate of PE from the two emission points.
- c) Operational Restrictions
- (1) None.
- d) Monitoring and/or Recordkeeping Requirements
- (1) The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack and for any visible fugitive particulate emissions from the egress points (i.e., building windows, doors, roof monitors, etc.) serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
    - a. the location and color of the emissions;
    - b. whether the emissions are representative of normal operations;
    - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
    - d. the total duration of any visible emission incident; and
    - e. any corrective actions taken to minimize or eliminate the visible emissions.

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

emissions unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible emissions.  
[OAC rule 3745-77-07(C)(1) and 40 CFR Part 64]

- (2) The permittee shall properly install, operate, and maintain equipment to continuously monitor the pressure drop across the scrubber (in inches of water) and the scrubber liquid motor pump amperes during operation of this emissions unit, including periods of startup and shutdown. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s).
- a. The permittee shall collect and record the following information on a twice per day basis:
- i. pressure drop across the scrubber; and
  - ii. the scrubber motor pump amperes.
- b. Whenever the monitored value for any parameter deviates from the range(s) or minimum limit(s) established in accordance with this permit, the permittee shall promptly investigate the cause of the deviation. The permittee shall maintain records of the following information for each investigation:
- i. the date and time the deviation began;
  - ii. the magnitude of the deviation at that time;
  - iii. the date the investigation was conducted;
  - iv. the name(s) of the personnel who conducted the investigation; and
  - v. the findings and recommendations.
- c. In response to each required investigation to determine the cause of a deviation, the permittee shall take prompt corrective action to bring the control equipment parameters within the acceptable range(s), or at or above the minimum limit(s) specified in this permit, unless the permittee determines that corrective action is not necessary.
- i. The permittee shall maintain records of the following information for each deviation when it was determined that corrective action was not necessary:
    - (a) the reason corrective action was not necessary; and
    - (b) the date and time the deviation ended.
  - ii. The permittee shall maintain records of the following information for each corrective action taken:
    - (a) a description of the corrective action;

- (b) the date the corrective action was completed;
  - (c) the date and time the deviation ended;
  - (d) the total period of time (in minutes) during which there was a deviation;
  - (e) the pressure drop and flow rate readings immediately after the corrective action was implemented; and
  - (f) the name(s) of the personnel who performed the work.
- iii. Investigation and records required by this paragraph do not eliminate the need to comply with the requirements of OAC rule 3745-15-06 if it is determined that a malfunction has occurred.
- d. Pressure drop indicator
- In order to maintain compliance with the applicable emission limitation(s) contained in this permit, the acceptable range for the pressure drop across the scrubber, that must be maintained in order to demonstrate compliance, shall be between 10 to 70 inches of water.
- e. Motor pump amperes indicator
- In order to maintain compliance with the applicable emission limitation(s) contained in this permit, the acceptable range for the scrubber motor pump amperes, that shall be maintained in order to demonstrate compliance, shall be at a value of not less than 25 amps.
- f. The indicator ranges/limits are effective for the duration of this permit, unless revisions are requested by the permittee and approved in writing by the appropriate Ohio EPA District Office or local air agency. The permittee may request revisions to the permitted limit or range based upon information obtained during future testing that demonstrate compliance with the allowable particulate emission rate for the controlled emissions unit(s). In addition, approved revisions to the range or limit will not constitute a relaxation of the monitoring requirements of this permit and may be incorporated into this permit by means of a minor permit modification.
- [OAC rule 3745-77-07(C)(1) and 40 CFR Part 64]
- (3) Notwithstanding the frequency of the recording of pressure drop across the scrubber and the scrubber liquid motor pump amperes specified in d)(2), the permittee may reduce the frequency of recordings for the pressure drop across the scrubber and the scrubber liquid motor pump amperes from two times per day to once per day readings if the following conditions are met:
- a. for two full calendar quarters, the permittee's recordings of pressure drop and motor pump amperes indicate no deviations; and

- b. the permittee continues to comply with all the record keeping and monitoring requirements specified in d)(2).

The permittee shall revert to two times per day readings if any deviations occur.  
[OAC rule 3745-77-07(C)(1) and 40 CFR Part 64]

- (4) The CAM plan for this emissions unit has been developed for particulate emissions. The CAM performance indicator for the baghouse and scrubber controlling this emissions unit is daily visible emission checks, scrubber pressure drop and the scrubber motor pump amperes. When the performance indicators show operation outside its normal or usual manner of operation, the permittee shall take corrective actions to restore operation of the emissions unit and/or its control equipment to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions, and shall comply with the reporting requirements specified in Section e) below. The emissions unit and control equipment shall be operated in accordance with the approved CAM Plan, or any approved revision of the Plan. The baghouse and scrubbers shall not be configured to have bypass capability.  
[OAC rule 3745-77-07(C)(1) and 40 CFR Part 64]
- (5) Scrubber operating parameters shall be re-verified as a result of any changes to the operating conditions of the scrubbers or emissions unit. In addition to periodic monitoring of their scrubber operating parameters, the permittee also has an inspection and maintenance program for the scrubbers. Based on the results of the monitoring and inspection program, repairs to the scrubbers shall be made as needed. If the current CAM indicators and/or the scrubber inspection program are considered inadequate, the permittee will develop a Quality Improvement Plan.  
[OAC rule 3745-77-07(C)(1) and 40 CFR Part 64]
- (6) At all times, the permittee shall maintain the monitoring, including but not limited to, maintaining necessary parts for routine repairs of the monitoring equipment.  
[OAC rule 3745-77-07(C)(1) and 40 CFR Part 64]
- (7) If the permittee identifies a failure to achieve compliance with an emission limitation or standard for which the approved monitoring did not provide an indication of an excursion or exceedance, the permittee shall promptly notify the appropriate Ohio EPA Northwest District Office, and if necessary, submit a proposed modification to the Title V permit to address the necessary monitoring changes. Such a modification may include, but is not limited to, re-establishing indicator ranges or designated conditions, modifying the frequency of conducting monitoring and collecting data, or the monitoring of additional parameters.  
[OAC rule 3745-77-07(C)(1) and 40 CFR Part 64]
- (8) In addition to the parametric monitoring required in d)(1), the permittee shall conduct visual inspections of the scrubber's spray nozzles every six months. At a minimum, each spray nozzle shall be inspected for the following:
  - a. excessive wear, or clogging; and

- b. appropriate directional output to ensure that the spray is covering the entire gas stream. Records of these inspections shall be kept in accordance with the Standard Terms and Conditions of this permit.  
[OAC rule 3745-77-07(C)(1) and 40 CFR Part 64]
- (9) The permittee shall maintain a supply of replacement nozzles, or any other parts necessary to ensure that the scrubbing system will operate properly. Any worn, or clogged nozzles shall be replaced, or fixed during the inspection.  
[OAC rule 3745-77-07(C)(1) and 40 CFR Part 64]
- e) Reporting Requirements
  - (1) The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit, (b) identify all days during which any visible fugitive particulate emissions were observed from the from the egress points (i.e., building windows, doors, roof monitors, etc.) serving this emissions unit, and (c) describe any corrective actions taken to minimize or eliminate the visible particulate and/or visible fugitive particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.  
[OAC rule 3745-77-07(C)(1) and 40 CFR Part 64]
  - (2) The permittee shall submit quarterly deviation (excursion) reports, in accordance with the Standard Terms and Conditions of this permit, which include the following information:
    - a. each period of time (start time and date, and end time and date) when the pressure drop across the scrubber and/or the scrubber motor amperes was/were outside of the appropriate range or exceeded the applicable limit contained in this permit;
    - b. any period of time (start time and date, and end time and date) when the emissions unit(s) was/were in operation and the process emissions were not vented to the scrubber;
    - c. each incident of deviation described in e)(3)a. and e)(3)b. (above) where a prompt investigation was not conducted;
    - d. each incident of deviation described in e)(3)a. and e)(3)b. where prompt corrective action, that would bring the pressure drop and/or scrubber motor amperes into compliance with the acceptable range, was determined to be necessary and was not taken; and
    - e. each incident of deviation described in e)(3)a. and e)(3)b. where proper records were not maintained for the investigation and/or the corrective action(s), as identified in the monitoring and record keeping requirements of this permit.  
[OAC rule 3745-77-07(C)(1) and 40 CFR Part 64]

f) Testing Requirements

- (1) The permittee shall conduct, or have conducted, emission testing for the baghouse and scrubber serving this emissions unit in accordance with the following requirements:
  - a. The emission testing shall be conducted within 6 months prior to the permit expiration. Testing timeframe(s) specified may be amended or waived for cause upon prior request of, and written approval of, the Ohio EPA.
  - b. The emission testing shall be conducted to demonstrate compliance with the PE hourly emissions limitation.
  - c. The following test method(s) shall be employed to meet the testing requirements above:
    - i. OAC rule 3745-17-03(B)(10)  
  
Alternative U.S. EPA-approved test methods may be used with prior approval from the appropriate Ohio EPA District Office or local air agency.
  - d. The test(s) shall be conducted under those representative conditions that challenge to the fullest extent possible a facility's ability to meet the applicable emissions limits and/or control requirements, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency. Although this generally consists of operating the emissions unit at its maximum material input/production rates and results in the highest emission rate of the tested pollutant, there may be circumstances where a lower emissions loading is deemed the most challenging control scenario. Failure to test under these conditions is justification for not accepting the test results as a demonstration of compliance.
  - e. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the 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 Northwest District Office's refusal to accept the results of the emission test(s).
  - f. Personnel from the Northwest District Office 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.

