



State of Ohio Environmental Protection Agency

**RE: FINAL PERMIT TO INSTALL  
DELAWARE COUNTY**

**CERTIFIED MAIL**

Street Address:

122 S. Front Street

Lazarus Gov. Center TELE: (614) 644-3020 FAX: (614) 644-2329

Mailing Address:

Lazarus Gov. Center  
P.O. Box 1049

**Application No: 01-08884**

**Fac ID: 0121010115**

**DATE: 11/16/2004**

National Lime and Stone Co  
Dan Mapes  
P O Box 120 551 Lake Cascades Parkway  
Findlay, OH 45839

Enclosed please find an Ohio EPA Permit to Install which will allow you to install the described source(s) in a manner indicated in the permit. Because this permit contains several conditions and restrictions, I urge you to read it carefully.

The Ohio EPA is urging 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 Pollution Prevention at (614) 644-3469.

You are hereby notified that this action by the Director is final and may be appealed to the Ohio Environmental Review Appeals Commission pursuant to Chapter 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. It must be filed within thirty (30) days after the notice of the Directors action. A copy of the appeal must be served on the Director of the Ohio Environmental Protection Agency within three (3) days of filing with the Commission. An appeal may be filed with the Environmental Review Appeals Commission at the following address:

Environmental Review Appeals Commission  
309 South Fourth Street, Room 222  
Columbus, Ohio 43215

Sincerely,

Michael W. Ahern, Manager  
Permit Issuance and Data Management Section  
Division of Air Pollution Control

cc: USEPA

CDO



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**Permit To Install  
Terms and Conditions**

**Issue Date: 11/16/2004  
Effective Date: 11/16/2004**

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**FINAL PERMIT TO INSTALL 01-08884**

Application Number: 01-08884  
Facility ID: 0121010115  
Permit Fee: **\$900**  
Name of Facility: National Lime and Stone Co  
Person to Contact: Dan Mapes  
Address: P O Box 120 551 Lake Cascades Parkway  
Findlay, OH 45839

Location of proposed air contaminant source(s) [emissions unit(s)]:  
**2406 S Section Line Rd  
Delaware, Ohio**

Description of proposed emissions unit(s):  
**Dual vibrating screens 11 conveyors.**

The above named entity is hereby granted a Permit to Install for the above described emissions unit(s) pursuant to Chapter 3745-31 of the Ohio Administrative Code. Issuance of this permit does not constitute expressed or implied approval or agreement that, if constructed or modified in accordance with the plans included in the application, the above described emissions unit(s) of environmental pollutants will operate in compliance with applicable State and Federal laws and regulations, and does not constitute expressed or implied assurance that if constructed or modified in accordance with those plans and specifications, the above described emissions unit(s) of pollutants will be granted the necessary permits to operate (air) or NPDES permits as applicable.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

Director

**National Lime and Stone Co**  
**PTI Application: 01-08884**  
**Issued: 11/16/2004**

**Facility ID: 0121010115**

## **Part I - GENERAL TERMS AND CONDITIONS**

### **A. Permit to Install General Terms and Conditions**

#### **1. Compliance Requirements**

The emissions unit(s) identified in this Permit to Install shall remain in full compliance with all applicable State laws and regulations and the terms and conditions of this permit.

#### **2. Reporting Requirements**

The permittee shall submit required reports in the following manner:

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

#### **3. Records Retention Requirements**

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

#### **4. Inspections and Information Requests**

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

**National Lime and Stone Co**  
**PTI Application: 01-08884**  
**Issued: 11/16/2004**

**Facility ID: 0121010115**

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

**5. Scheduled Maintenance/Malfunction Reporting**

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

**6. Permit Transfers**

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

**7. Air Pollution Nuisance**

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

**8. Termination of Permit to Install**

This Permit to Install shall terminate within eighteen months of the effective date of the Permit to Install if the owner or operator has not undertaken a continuing program of installation or modification or has not entered into a binding contractual obligation to undertake and complete within a reasonable time a continuing program of installation or modification. This deadline may be extended by up to 12 months if application is made to the Director within a reasonable time before the termination date and the party shows good cause for any such extension.

**9. Construction of New Sources(s)**

The proposed emissions unit(s) shall be constructed in strict accordance with the plans and application submitted for this permit to the Director of the Ohio Environmental Protection Agency. There may be no deviation from the approved plans without the express, written approval of the Agency. Any deviations from the approved plans or the above conditions may lead to such sanctions and penalties as provided under Ohio law. Approval of these plans does not constitute an assurance that the proposed facilities will operate in compliance with all Ohio laws and regulations. Additional facilities shall be installed upon orders of the Ohio

**National Lime and Stone Co**  
**PTI Application: 01-08884**  
**Issued: 11/16/2004**

**Facility ID: 0121010115**

Environmental Protection Agency if the proposed sources cannot meet the requirements of this permit or cannot meet applicable standards.

If the construction of the proposed emissions unit(s) has already begun or has been completed prior to the date the Director of the Environmental Protection Agency approves the permit application and plans, the approval does not constitute expressed or implied assurance that the proposed facility has been constructed in accordance with the approved plans. The action of beginning and/or completing construction prior to obtaining the Director's approval constitutes a violation of OAC rule 3745-31-02. Furthermore, issuance of the Permit to Install does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. Approval of the plans in any case is not to be construed as an approval of the facility as constructed and/or completed. Moreover, issuance of the Permit to Install is not to be construed as a waiver of any rights that the Ohio Environmental Protection Agency (or other persons) may have against the applicant for starting construction prior to the effective date of the permit. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed facilities cannot meet the requirements of this permit or cannot meet applicable standards.

**10. Public Disclosure**

The facility is hereby notified that this permit, and all agency records concerning the operation of this permitted source, are subject to public disclosure in accordance with OAC rule 3745-49-03.

**11. Applicability**

This Permit To Install is applicable only to the emissions unit(s) identified in the Permit To Install. Separate Permit To Install for the installation or modification of any other emissions unit(s) are required for any emissions unit for which a Permit To Install is required.

**12. Best Available Technology**

As specified in OAC Rule 3745-31-05, all new sources must employ Best Available Technology (BAT). Compliance with the terms and conditions of this permit will fulfill this requirement.

**13. Source Operation and Operating Permit Requirements After Completion of Construction**

This facility is permitted to operate each source described by this Permit to Install for a period of up to one year from the date the source commenced operation. This permission to operate is granted only if the facility complies with all requirements contained in this permit and all applicable air pollution laws, regulations, and policies. Pursuant to OAC Chapter 3745-35, the permittee shall submit a complete operating permit application within ninety (90) days after commencing operation of the emissions unit(s) covered by this permit.

**National Lime and Stone Co**  
**PTI Application: 01-08884**  
**Issued: 11/16/2004**

**Facility ID: 0121010115**

**14. Construction Compliance Certification**

The applicant shall provide Ohio EPA with a written certification (see enclosed form) that the facility has been constructed in accordance with the Permit to Install application and the terms and conditions of the Permit to Install. The certification shall be provided to Ohio EPA upon completion of construction but prior to startup of the source.

**15. 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. The permittee shall pay all applicable Permit to Install fees within 30 days after the issuance of this Permit to Install.

**B. Permit to Install Summary of Allowable Emissions**

The following information summarizes the total allowable emissions, by pollutant, based on the individual allowable emissions of each air contaminant source identified in this permit.

SUMMARY (for informational purposes only)  
TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS

<u>Pollutant</u>	<u>Tons Per Year</u>
PE	94.0

**PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)**

**A. Applicable Emissions Limitations and/or Control Requirements**

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
F010 - Primary crushing and screening including 2 fines removal screens, associated conveyors, and transfer points. The terms of this permit supercede those identified in PTI No. 01-08135 issued November 30, 2000.	OAC rule 3745-31-05(A)(3)           40 CFR 60 Subpart OOO  OAC rule 3745-17-08  OAC rule 3745-17-11	Total particulate emissions (PE) shall not exceed a 17.0 tons per year.  The requirements of this rule also include compliance with the requirements of 40 CFR Part 60, Subpart OOO.  Best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see Sections A.2.c through A.2.j).  See A.2.a. and A.2.b. below.  See A.2.k. below.  The requirements specified in this rule are less stringent than the best available technology pursuant to OAC rule 3745-31-05 and the NSPS pursuant to 40 CFR 60.672.

**2. Additional Terms and Conditions**

- 2.a No owner or operator subject to the provisions of this subpart shall cause to be discharged into the atmosphere from any transfer point , belt conveyors, and screens or from any other affected facility any fugitive emissions which exhibit greater than 10 percent opacity.
- 2.b No owner or operator shall cause to be discharged into the atmosphere from any crusher, at which a capture system is not used, fugitive emissions which exhibit greater than 15

percent opacity.

- 2.c The permittee shall employ best available control measures for the crushing and screening operation 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 install water sprays and/or enclosures at transfer points and screens to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- 2.d 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 if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements.
- 2.e Implementation of the above-mentioned control measures in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the best available technology requirements of OAC rule 3745-31-05.
- 2.f The crushing screening operation(s) that are covered by this permit and subject to the above-mentioned requirements are listed below:

Primary Crusher  
 Primary Screen  
 2 - Secondary Fines Removal Screens  
 Conveyors and transfer points

- 2.g The permittee shall employ best available control measures for the above-identified crushing/screening operations 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 perform the following control measures to ensure compliance:

crushing/screening operations

control measures

Primary Crusher  
 Primary Screen  
 2 - Secondary Fines Removal Screens  
 Conveyors and transfer points  
 Load into reclaim hopper

watering and good operating practices  
 minimize bucket drop height

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

- 2.h For each material handling operation that is not adequately enclosed, the above-identified control measures shall be implemented if the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the control measures is necessary to ensure compliance with the above-mentioned applicable requirements. Any required implementation of the control measures shall continue during the operation of the material handling operations until further observation confirms that use of the control measures is unnecessary.
- 2.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 3745-31-05.
- 2.j The application and enforcement of the provisions of the New Source Performance Standards (NSPS), as promulgated by the United States Environmental Protection Agency, 40 CFR Part 60, are delegated to the Ohio Environmental Protection Agency. The requirements of 40 CFR Part 60 are also federally enforceable.
- 2.k This facility is not located in an Appendix A area as described in OAC rule 3745-17-08; therefore, OAC rule 3745-17-08(B) does not apply to the fugitive particulate emissions from this emissions unit.

**B. Operational Restrictions**

None

**C. Monitoring and/or Recordkeeping Requirements**

- 1. Except as otherwise provided in this section, for crushing/screening operations that are not adequately enclosed, the permittee shall perform inspections of such operations in accordance with the following minimum frequencies:

<u>material handling operations</u>	<u>minimum inspection frequency</u>
Primary Crusher	daily
Primary Screen	daily
2 - Secondary Fines Removal Screens	daily
Conveyors and transfer points	daily
Load into reclaim hopper	daily

2. The above-mentioned inspections shall be performed during representative, normal operating conditions.
3. The permittee may, upon receipt of written approval from the Ohio EPA Central District Office, modify the above-mentioned inspection frequencies if operating experience indicates that less frequent inspections would be sufficient to ensure compliance with the above-mentioned applicable requirements.
4. The permittee shall maintain records of the following information:
  - a. the date and reason any required inspection was not performed;
  - b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control 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 in 4.d. shall be kept separately for each crushing/screening operation identified above, and shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

#### **D. Reporting Requirements**

1. The permittee shall submit deviation reports that identify any of the following occurrences:
  - a. each day during which an inspection was not performed by the required frequency; and
  - b. each instance when a control measure, that was to be performed as a result of an inspection, was not implemented.

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

2. The following source is subject to the applicable provisions of the New Source Performance Standards (NSPS) as promulgated by the United States Environmental Protection Agency, 40 CFR Part 60.

**Nation****PTI A****Issued: 11/16/2004**Emissions Unit ID: **F010**

<u>Source Number</u>	<u>Source Description</u>	<u>NSPS Regulation (Subpart)</u>
F010	Aggregate Primary Crushing, Screening, including 2 fines removal screens, associated conveyors, and transfer points.	Subpart OOO

The application and enforcement of these standards are delegated to the Ohio EPA. The requirements of 40 CFR Part 60 are also federally enforceable.

Pursuant to the NSPS, the source owner/operator is hereby advised of the requirement to report the following at the appropriate times:

- a. construction date (no later than 30 days after such date);
- b. anticipated start-up date (not more than 60 days or less than 30 days prior to such date);
- c. actual start-up date (within 15 days after such date); and
- d. date of performance testing (If required, at least 30 days prior to testing).

Reports are to be sent to:

Ohio Environmental Protection Agency  
DAPC - Air Quality Modeling and Planning  
P.O. Box 1049  
Columbus, OH 43216-1049

and

Ohio EPA  
Central District Office  
Division of Air Pollution Control  
3232 Alum Creek Drive  
Columbus, OH 43207

## **E. Testing Requirements**

1. Compliance with the emission limitation in Section A.1. of these terms and conditions shall be determined in accordance with the following method(s):

- a. Emission Limitation:  
 Visible emissions of fugitive dust discharging from the transfer points, conveyors, and screens shall not exceed 10 % opacity.

Applicable Compliance Method:

Compliance with the visible emission limits shall be determined in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 (Standards of Performance for New Stationary Sources), as such "Appendix on Test Methods" existed on July 1, 1996.

- b. Emission Limitation:  
 Visible emissions of fugitive dust discharging from the crusher shall not exceed 15 % opacity.

Applicable Compliance Method:

Compliance with the visible emission limits shall be determined in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 (Standards of Performance for New Stationary Sources), as such "Appendix on Test Methods" existed on July 1, 1996.

- c. Emission Limitation:  
 Total particulate emissions (PE) shall not exceed a 17.0 tons per year.

Applicable Compliance Method:

Total tons particulate controlled / year emitted is calculated as follows:

Crushing and Screening

Primary Crusher:

$$(0.0007 \text{ lbs particulate / ton}) \times (3,000 \text{ tons/hr}) = 2.1 \text{ lbs particulate / hr}$$

$$(0.0007 \text{ lbs particulate / ton}) \times (8,000,000 \text{ tons/yr}) \times (1 \text{ ton}/2000 \text{ lbs}) = 2.8 \text{ TPY}$$

Primary Screen:

$$(0.001764 \text{ lbs particulate / ton}) \times (3,000 \text{ tons/hr}) = 5.3 \text{ lbs particulate / hr}$$

$$(0.001764 \text{ lbs particulate / ton}) \times (8,000,000 \text{ tons/yr}) \times (1 \text{ ton}/2000 \text{ lbs}) = 7.1 \text{ TPY}$$

Fines Removal Screens:

$$(0.0022 \text{ lbs particulate / ton}) \times (750 \text{ tons/hr}) = 1.7 \text{ lbs particulate / hr}$$

$$(0.0022 \text{ lbs particulate / ton}) \times (4,380,000 \text{ tons /yr}) \times (1 \text{ ton}/2000 \text{ lbs}) = 4.8 \text{ TPY}$$

Material Handling (For Fines Removal Operation Only):

## Conveyor Transfer Points

Egress Points #1 and # 2

$$(0.00014 \text{ lbs particulate / ton}) \times (750 \text{ tons /hr}) = 0.105 \text{ lb particulate / hr}$$

$$(0.105 \text{ lb particulate / hr}) \times (5,840 \text{ hrs/yr}) \times (2^*) \times (1 \text{ ton}/2000 \text{ lbs}) = 0.6 \text{ TPY}$$

\*(The number of egress points.)

Egress Points #3 and # 5

$$(0.00014 \text{ lbs particulate / ton}) \times (375 \text{ tons /hr}) = 0.05 \text{ lb particulate / hr}$$

$$(0.05 \text{ lb particulate / hr}) \times (5,840 \text{ hrs/yr}) \times (2^*) \times (1 \text{ ton}/2000 \text{ lbs}) = 0.3 \text{ TPY}$$

\*(The number of egress points.)

Egress Points #4, #6, #7, and # 8

$$(0.00014 \text{ lbs particulate / ton}) \times (150 \text{ tons /hr}) = 0.02 \text{ lb particulate / hr}$$

$$(0.02 \text{ lb particulate / hr}) \times (5,840 \text{ hrs/yr}) \times (4^*) \times (1 \text{ ton}/2000 \text{ lbs}) = 0.25 \text{ TPY}$$

\*(The number of egress points.)

Egress Points #9, #10, and # 11

$$(0.00014 \text{ lbs particulate / ton}) \times (300 \text{ tons /hr}) = 0.04 \text{ lb particulate / hr}$$

$$(0.04 \text{ lb particulate / hr}) \times (5,840 \text{ hrs/yr}) \times (3^*) \times (1 \text{ ton}/2000 \text{ lbs}) = 0.37 \text{ TPY}$$

\*(The number of egress points.)

Egress Points #12 and # 13

$(0.00014 \text{ lbs particulate / ton}) \times (225 \text{ tons /hr}) = 0.03 \text{ lb particulate / hr}$   
 $(0.03 \text{ lb particulate / hr}) \times (5,840 \text{ hrs/yr}) \times (2^*) \times (1 \text{ ton/2000 lbs}) = 0.2 \text{ TPY}$   
\*(The number of egress points.)

Egress Points #14 and # 15

$(0.00014 \text{ lbs particulate / ton}) \times (450 \text{ tons /hr}) = 0.06 \text{ lb particulate / hr}$   
 $(0.06 \text{ lb particulate / hr}) \times (5,840 \text{ hrs/yr}) \times (2^*) \times (1 \text{ ton/2000 lbs}) = 0.35 \text{ TPY}$   
\*(The number of egress points.)

Egress Points #16 and # 18

$(0.00014 \text{ lbs particulate / ton}) \times (300 \text{ tons /hr}) = 0.04 \text{ lb particulate / hr}$   
 $(0.04 \text{ lb particulate / hr}) \times (5,840 \text{ hrs/yr}) \times (2^*) \times (1 \text{ ton/2000 lbs}) = 0.25 \text{ TPY}$   
\*(The number of egress points.)

Total Emissions from crushing / screening/ material handling operations  
 $2.8 + 7.1 + 4.8 + 0.6 + 0.3 + 0.25 + 0.37 + 0.2 + 0.35 + 0.25 = 17.0 \text{ TPY}$

All emission factors (lbs particulate/ton) are obtained from USEPA's AP-42, Volume I, Fifth Edition, Chapter 11, Section 11.19.2, "Crushed Stone Processing and Pulverized Mineral Processing", Table 11.19.2-2, August 2004. No testing is specifically required to demonstrate compliance with this emissions limitation but, if appropriate may be requested pursuant to OAC rule 3745-15-04(A).

**F. Miscellaneous Requirements**

None

**PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)**

**A. Applicable Emissions Limitations and/or Control Requirements**

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
F011 - Aggregate Secondary Crushing and Screening. The terms of this permit supercede those identified in PTI No. 01-08135 issued November 30, 2000.	OAC rule 3745-31-05(A)(3)	Particulate emissions (PE) shall not exceed 7.4 lbs/hour and 9.9 TPY.
	40 CFR 60.672(c), Subpart OOO	Wet suppression water sprays shall be used at all times while the emissions unit is in operation.
	40 CFR 60.676(g), Subpart OOO	No owner or operator shall cause to be discharged from any crusher, at which a capture system is not used, fugitive emissions which exhibit greater than 15% opacity.
	OAC rule 3745-17-11	No owner or operator shall cause to be discharged from any screening operation that processes unsaturated material any fugitive emissions which exhibit greater than 10% opacity
		The requirements specified in this rule are less stringent than the best available technology pursuant to OAC rule 3745-31-05 and the NSPS pursuant to 40 CFR 60.672.

**2. Additional Terms and Conditions**

- 2.a According to 40 CFR 60.676(i), a notification of actual date of initial startup of each affected facility shall be submitted to the Administrator. For a combination of affected

facilities in a production line that begin actual initial startup on the same day, a single notification of startup may be submitted. The notification shall be postmarked within 15 days after such date and shall include a description of each affected facility, equipment manufacturer, and serial number of the equipment, if available.

- 2.b** 7.4 lbs/hour represents the maximum potential to emit with controls for the 3,000 tons/hour aggregate crushing and screening operation, therefore, it is not necessary to develop record keeping to determine compliance for this hourly limitation.
- 2.c** 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 if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements.

## **B. Operational Restrictions**

1. The permittee shall operate wet suppression water sprays in a manner sufficient to minimize or eliminate visible emissions of fugitive dust at all times while the emissions unit is in operation.

## **C. Monitoring and/or Recordkeeping Requirements**

1. The permittee shall collect and record a log or record of daily inspections of the wet suppression water sprays for proper function each day in which the emissions unit is in operation.
2. The permittee shall collect and record a log or record of the annual through put to be used in the annual emissions compliance determination calculation, see E.1. below.

## **D. Reporting Requirements**

1. The permittee shall submit deviation (excursion) reports that identify all periods during which the wet suppression water sprays were not functioning properly. The reports shall include the date, time, and duration of each such period.
2. The permittee shall submit annual deviation (excursion) reports that identify compliance with the annual emissions limitation, see C.2. and E.1.
3. The following source is subject to the applicable provisions of the New Source Performance Standards (NSPS) as promulgated by the United States Environmental Protection Agency, 40 CFR Part 60.

**National Lime and Stone Co**  
**PTI Application: 01 00004**  
**Issued**

**Facility ID: 0121010115**

Emissions Unit ID: **F011**

<u>Source Number</u>	<u>Source Description</u>	<u>NSPS Regulation (Subpart)</u>
F011	Aggregate Secondary Crushing and Screening	Subpart OOO

The application and enforcement of these standards are delegated to the Ohio EPA. The requirements of 40 CFR Part 60 are also federally enforceable.

Pursuant to the NSPS, the source owner/operator is hereby advised of the requirement to report the following at the appropriate times:

- a. construction date (no later than 30 days after such date);
- b. anticipated start-up date (not more than 60 days or less than 30 days prior to such date);
- c. actual start-up date (within 15 days after such date); and
- d. date of performance testing (If required, at least 30 days prior to testing).

Reports are to be sent to:

Ohio Environmental Protection Agency  
DAPC - Air Quality Modeling and Planning  
P.O. Box 1049  
Columbus, OH 43216-1049

and

Ohio EPA  
Central District Office  
Division of Air Pollution Control  
3232 Alum Creek Drive  
Columbus, OH 43207

## **E. Testing Requirements**

1. Emissions Limitation:  
7.4 lbs PE/hour, 9.9 TPY PM

Applicable Compliance Method:

Since no emissions factors are available for Secondary crushing, emissions factors for primary crushing were used. AP-42 Table 11.19.2-2 emission factor for uncontrolled primary crushing

after converting the PM10 to TSP , is 0.00070 lb/ton and the emission factor for controlled screening is 0.001764 lb/ton. Maximum through put 3,000 tons/hour, 8,000,000 tons/year.

$(0.0007 \text{ lb PE/ton} + 0.001764 \text{ lb PE/ton})(3000 \text{ tons/hour}) = 7.4 \text{ lbs PE/hour}$

$(0.0007 \text{ lb PE/ton} + 0.001764 \text{ lb PE/ton})(8,000,000 \text{ tons/year}) = 9.9 \text{ TPY PM}$

2. Emissions Limitation:

No owner or operator shall cause to be discharged from any crusher, at which a capture system is not used, fugitive emissions which exhibit greater than 15% opacity.

Applicable Compliance Method:

40 CFR 60.675(c) In determining compliance with the particulate matter standards in 40 CFR 60.672(c), the owner or operator shall use Method 9 and the procedures in 40 CFR 60.11, with the following additions:

- a. The minimum distance between the observer and the emission source shall be 4.57 meters (15 feet).
- b. The observer shall, when possible, select a position that minimizes interference from other fugitive emissions sources (e.g. road dust). The required observer position relative to the sun (Method 9, Section 2.1) must be followed.
- c. For affected facilities using wet dust suppression for particulate matter control, a visible mist is sometimes generated by the spray. The water mist must not be confused with the particulate matter emissions and is not to be considered a visible emission. When a water mist of this nature is present, the observation of emissions is to be made at a point in the plume where the mist is no longer visible.
- d. The duration of the Method 9 observations may be reduced from 3 hours (thirty 6-minute averages) to 1 hour (ten 6-minute averages) only if there are no individual readings greater than 15% opacity and there are no more than 3 readings of 15% for the 1-hour period.

3. Emissions Limitation:

No owner or operator shall cause to be discharged from any screening operation that processes unsaturated material any fugitive emissions which exhibit greater than 10% opacity.

Applicable Compliance Method:

40 CFR 60.675(c) In determining compliance with the particulate matter standards in 40 CFR 60.676(g), the owner or operator shall use Method 9 and the procedures in 40 CFR 60.11, with the following additions:

- a. The minimum distance between the observer and the emission source shall be 4.57 meters

(15 feet).

- b. The observer shall, when possible, select a position that minimizes interference from other fugitive emissions sources (e.g. road dust). The required observer position relative to the sun (Method 9, Section 2.1) must be followed.
- c. For affected facilities using wet dust suppression for particulate matter control, a visible mist is sometimes generated by the spray. The water mist must not be confused with the particulate matter emissions and is not to be considered a visible emission. When a water mist of this nature is present, the observation of emissions is to be made at a point in the plume where the mist is no longer visible.
- d. The duration of the Method 9 observations may be reduced from 3 hours (thirty 6-minute averages) to 1 hour (ten 6-minute averages) only if there are no individual readings greater than 10% opacity and there are no more than 3 readings of 10% for the 1-hour period.

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**Nation**

**PTI A**

**Issued: 11/16/2004**

Emissions Unit ID: **F011**

**F. Miscellaneous Requirements**

None

**PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)**

**A. Applicable Emissions Limitations and/or Control Requirements**

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
F012 - Aggregate Tertiary Crushing and Screening. The terms of this permit supercede those identified in PTI No. 01-08135 issued November 30, 2000.	OAC rule 3745-31-05(A)(3)	Particulate emissions (PE) shall not exceed 9.0 lbs/hour and 12.0 TPY.
	40 CFR 60.672(c), Subpart OOO	Wet suppression water sprays shall be used at all times while the emissions unit is in operation.
	40 CFR 60.676(g), Subpart OOO	No owner or operator shall cause to be discharged from any crusher, at which a capture system is not used, fugitive emissions which exhibit greater than 15% opacity.
	OAC rule 3745-17-11	No owner or operator shall cause to be discharged from any screening operation that processes unsaturated material any fugitive emissions which exhibit greater than 10% opacity
		The requirements specified in this rule are less stringent than the best available technology pursuant to OAC rule 3745-31-05 and the NSPS pursuant to 40 CFR 60.672.

**2. Additional Terms and Conditions**

- 2.a According to 40 CFR 60.676(i), a notification of actual date of initial startup of each affected facility shall be submitted to the Administrator. For a combination of affected facilities in a production line that begin actual initial startup on the same day, a single notification of startup may be submitted. The notification shall be postmarked within 15 days after such date and shall include a description of each affected facility, equipment manufacturer, and serial number of the equipment, if available.
- 2.b 9.0 lbs/hour represents the maximum potential to emit with controls for the 3,000 tons/hour aggregate crushing and screening operation, therefore, it is not necessary to develop record keeping to determine compliance for this hourly limitation.
- 2.c 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 if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements.

## **B. Operational Restrictions**

1. The permittee shall operate wet suppression water sprays in a manner sufficient to minimize or eliminate visible emissions of fugitive dust at all times while the emissions unit is in operation.

## **C. Monitoring and/or Recordkeeping Requirements**

1. The permittee shall collect and record a log or record of daily inspections of the wet suppression water sprays for proper function each day in which the emissions unit is in operation.
2. The permittee shall collect and record a log or record of the annual through put to be used in the annual emissions compliance determination calculation, see E.1. below.

## **D. Reporting Requirements**

1. The permittee shall submit deviation (excursion) reports that identify all periods during which the wet suppression water sprays were not functioning properly. The reports shall include the date, time, and duration of each such period.
2. The permittee shall submit annual deviation (excursion) reports that identify compliance with the annual emissions limitation, see C.2. and E.1.
3. The following source is subject to the applicable provisions of the New Source Performance

**National Lime and Stone Co**  
**PTI Application: 01 00004**  
**Issued**

**Facility ID: 0121010115**

Emissions Unit ID: **F012**

Standards (NSPS) as promulgated by the United States Environmental Protection Agency, 40 CFR Part 60.

<u>Source Number</u>	<u>Source Description</u>	<u>NSPS Regulation (Subpart)</u>
F012	Fractioning Loadout system: Screening	Subpart OOO

The application and enforcement of these standards are delegated to the Ohio EPA. The requirements of 40 CFR Part 60 are also federally enforceable.

Pursuant to the NSPS, the source owner/operator is hereby advised of the requirement to report the following at the appropriate times:

- a. construction date (no later than 30 days after such date);
- b. anticipated start-up date (not more than 60 days or less than 30 days prior to such date);
- c. actual start-up date (within 15 days after such date); and
- d. date of performance testing (If required, at least 30 days prior to testing).

Reports are to be sent to:

Ohio Environmental Protection Agency  
DAPC - Air Quality Modeling and Planning  
P.O. Box 1049  
Columbus, OH 43216-1049

and

Ohio EPA  
Central District Office  
Division of Air Pollution Control  
3232 Alum Creek Drive  
Columbus, OH 43207

## **E. Testing Requirements**

1. Emissions Limitation:  
9.0 lbs PE/hour, 12.0 TPY PM

Applicable Compliance Method:

AP-42 Table 11.19.2-2 emissions factor for tertiary crushing after converting PM-10 to TSP is 0.001239 lb PE/ton for controlled. and screening emissions factor is 0.001764 lb PE/ton controlled

Max through put = 3000 tons/hour, 8,000,000 tons/year

$(0.001239 \text{ lb PE/ton} + 0.001764 \text{ lb PE/ton})(3000 \text{ tons/hour}) = 9.0 \text{ lbs PE/hour}$

$(0.001239 \text{ lb PE/ton} + 0.001764 \text{ lb PE/ton})(8,000,000 \text{ tons/year}) = 12.0 \text{ TPY PM}$

2. Emissions Limitation:

No owner or operator shall cause to be discharged from any crusher, at which a capture system is not used, fugitive emissions which exhibit greater than 15% opacity.

Applicable Compliance Method:

40 CFR 60.675(c) In determining compliance with the particulate matter standards in 40 CFR 60.672(c), the owner or operator shall use Method 9 and the procedures in 40 CFR 60.11, with the following additions:

- a. The minimum distance between the observer and the emission source shall be 4.57 meters (15 feet).
- b. The observer shall, when possible, select a position that minimizes interference from other fugitive emissions sources (e.g. road dust). The required observer position relative to the sun (Method 9, Section 2.1) must be followed.
- c. For affected facilities using wet dust suppression for particulate matter control, a visible mist is sometimes generated by the spray. The water mist must not be confused with the particulate matter emissions and is not to be considered a visible emission. When a water mist of this nature is present, the observation of emissions is to be made at a point in the plume where the mist is no longer visible.
- d. The duration of the Method 9 observations may be reduced from 3 hours (thirty 6-minute averages) to 1 hour (ten 6-minute averages) only if there are no individual readings greater than 15% opacity and there are no more than 3 readings of 15% for the 1-hour period.

3. Emissions Limitation:

No owner or operator shall cause to be discharged from any screening operation that processes unsaturated material any fugitive emissions which exhibit greater than 10% opacity

Applicable Compliance Method:

40 CFR 60.675(c) In determining compliance with the particulate matter standards in 40 CFR 60.676(g), the owner or operator shall use Method 9 and the procedures in 40 CFR 60.11, with

the following additions:

- a. The minimum distance between the observer and the emission source shall be 4.57 meters (15 feet).
- b. The observer shall, when possible, select a position that minimizes interference from other fugitive emissions sources (e.g. road dust). The required observer position relative to the sun (Method 9, Section 2.1) must be followed.
- c. For affected facilities using wet dust suppression for particulate matter control, a visible mist is sometimes generated by the spray. The water mist must not be confused with the particulate matter emissions and is not to be considered a visible emission. When a water mist of this nature is present, the observation of emissions is to be made at a point in the plume where the mist is no longer visible.
- d. The duration of the Method 9 observations may be reduced from 3 hours (thirty 6-minute averages) to 1 hour (ten 6-minute averages) only if there are no individual readings greater than 10% opacity and there are no more than 3 readings of 10% for the 1-hour period.

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**Nation**

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**Issued: 11/16/2004**

Emissions Unit ID: **F012**

**F. Miscellaneous Requirements**

None

**PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)**

**A. Applicable Emissions Limitations and/or Control Requirements**

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
F013 - Material Handling: Load in, load out, conveying, transfer points for the primary, secondary, and tertiary crushing and screening. The terms of this permit supercede those identified in PTI No. 01-08135 issued November 30, 2000.	OAC rule 3745-31-05(A)(3)  40 CFR 60.672(b) NSPS Subpart OOO  OAC rule 3745-17-11	Particulate emissions (PE) shall not exceed 24.3 lbs/hour and 32.3 TPY.  Wet suppression water sprays shall be used at all times while the emissions unit is in operation.  No owner or operator shall cause to be discharged from any transfer point on belt conveyors any fugitive emissions which exhibit greater than 10% opacity  The requirements specified in this rule are less stringent than the best available technology pursuant to OAC rule 3745-31-05 and the NSPS pursuant to 40 CFR 60.672.

**2. Additional Terms and Conditions**

- 2.a According to 40 CFR 60.676(i), a notification of actual date of initial startup of each affected facility shall be submitted to the Administrator. For a combination of affected facilities in a production line that begin actual initial startup on the same day, a single notification of startup may be submitted. The notification shall be postmarked within 15 days after such date and shall include a description of each affected facility, equipment manufacturer, and serial number of the equipment, if available.

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**Nation**

**PTI A**

**Issued: 11/16/2004**

Emissions Unit ID: **F013**

- 2.b** The material handling operation(s) that are covered by this permit and subject to the above-mentioned requirements are listed below:

Primary Crushing and Screening - F.E.L. to hopper , 30 transfer points  
 Secondary Crushing and Screening -F.E.L. to customer truck, 40 transfer points  
 Tertiary Crushing and Screening - F.E.L. to customer truck, 10 transfer points

- 2.c** The permittee shall employ best available control measures for the above-identified material handling operation(s) 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 perform the following control measure(s) to ensure compliance:

<u>material handling operation(s)</u>	<u>control measure(s)</u>
Primary F.E.L. to hopper	inherent moisture wet suppression, spray bars low drop height
Primary transfer points	inherent moisture wet suppression carry over
Secondary F.E.L. to customer truck	inherent moisture wet suppression carry over low drop height
Secondary transfer points	inherent moisture wet suppression spray bars enclosure on certain transfer points
Tertiary F.E.L. to customer truck	inherent moisture totally wet system spray bars low drop height
Tertiary transfer points	inherent moisture totally wet system spray bars

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

- 2.d** For each material handling operation that is not adequately enclosed, the above-identified control measure(s) shall be implemented if the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the control measure(s) is (are) necessary to ensure compliance with the above-mentioned applicable

Emissions Unit ID: F013

requirements. Any required implementation of the control measure(s) shall continue during the operation of the material handling operation(s) until further observation confirms that use of the control measure(s) is unnecessary.

- 2.e Implementation of the above-mentioned control measure(s) in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the requirements of OAC rule 3745-31-05
- 2.f 24.3 lbs PE /hour represents the maximum potential to emit with controls for the 3,000 tons/hour aggregate crushing and screening operation, therefore, it is not necessary to develop record keeping to determine compliance for this hourly limitation.
- 2.g 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 if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements.

**B. Operational Restrictions**

- 1. The permittee shall operate wet suppression water sprays in a manner sufficient to minimize or eliminate visible emissions of fugitive dust at all times while the emissions unit is in operation.

**C. Monitoring and/or Recordkeeping Requirements**

- 1. Except as otherwise provided in this section, for material handling operations that are not adequately enclosed, the permittee shall perform inspections of such operations in accordance with the following minimum frequencies:

<u>material handling operation(s)</u>	<u>minimum inspection frequency</u>
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Load in, load out, conveying, transfer points for the primary, secondary and tertiary crushing and screening	Daily
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- 2. The above-mentioned inspections shall be performed during representative, normal operating conditions.
- 3. The permittee may, upon receipt of written approval from the appropriate Ohio EPA District Office or local air agency, modify the above-mentioned inspection frequencies if operating

experience indicates that less frequent inspections would be sufficient to ensure compliance with the above-mentioned applicable requirements.

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

The information in 4.d. shall be kept separately for each material handling operation identified above, and shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

5. The permittee shall collect and record a log or record of the annual through put to be used in the annual emissions compliance determination calculation, see E.1. below.

#### **D. Reporting Requirements**

1. The permittee shall submit deviation reports that identify any of the following occurrences:
  - a. each day during which an inspection was not performed by the required frequency; and
  - b. each instance when a control measure, that was to be performed as a result of an inspection, was not implemented.
2. The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.
3. The permittee shall submit annual deviation (excursion) reports that identify compliance with the annual emissions limitation, see C.2. and E.
4. The following source is subject to the applicable provisions of the New Source Performance Standards (NSPS) as promulgated by the United States Environmental Protection Agency, 40 CFR Part 60.

**National Lime and Stone Co**  
**PTI Application: 01 00004**  
**Issued**

**Facility ID: 0121010115**

Emissions Unit ID: **F013**

<u>Source Number</u>	<u>Source Description</u> (Subpart)	<u>NSPS</u>	<u>Regulation</u>
F013	Material Handling		Subpart OOO

The application and enforcement of these standards are delegated to the Ohio EPA. The requirements of 40 CFR Part 60 are also federally enforceable.

Pursuant to the NSPS, the source owner/operator is hereby advised of the requirement to report the following at the appropriate times:

- a. construction date (no later than 30 days after such date);
- b. anticipated start-up date (not more than 60 days or less than 30 days prior to such date);
- c. actual start-up date (within 15 days after such date); and
- d. date of performance testing (If required, at least 30 days prior to testing).

Reports are to be sent to:

Ohio Environmental Protection Agency  
DAPC - Air Quality Modeling and Planning  
P.O. Box 1049  
Columbus, OH 43216-1049

and

Ohio EPA  
Central District Office  
Division of Air Pollution Control  
3232 Alum Creek Drive  
Columbus, OH 43207

## **E. Testing Requirements**

1. Emissions Limitation:  
24.3 lbs PE /hour, 32.4 TPY PM

Applicable Compliance Method:

Ap-42, Table 11.19.2-2, Truck unloading fragmented stone emission factor 0.0000336 lb PE/ton  
Conveyor transfer point emission factor is 0.0001008 lb PE /ton controlled.

According to the application, there are 30 transfer points in the primary crushing and screening, 40 transfer points in the secondary crushing and screening, 10 transfer points in the tertiary crushing and screening. Totaling 80 transfer points.

Maximum transfer rates are 3000 tons/hour, 8,000,000 tons/year.

Load in -  $(0.0000336 \text{ lb PE /ton})(3000 \text{ tons/hour}) = 0.1008 \text{ lb PE/hour}$

$(0.0000336 \text{ lb PE /ton})(8,000,000 \text{ tons/year}) = 0.1344 \text{ TPY}$

$(80 \text{ transfer points})(0.0001008 \text{ lb PE /ton})(3000 \text{ tons/hour}) = 24.2 \text{ lbs PE /hour}$

$(80 \text{ transfer points})(0.0001008 \text{ lb PE /ton})(8,000,000 \text{ tons/year}) = 32.3 \text{ TPY}$

Total = 24.3 #PM/hour, 32.4 TPY PM

2. Emissions Limitation:

No owner or operator shall cause to be discharged from any transfer point on belt conveyors any fugitive emissions which exhibit greater than 10% opacity

Applicable Compliance Method:

40 CFR 60.675(c) In determining compliance with the particulate matter standards in 40 CFR 60.672(b), the owner or operator shall use Method 9 and the procedures in 40 CFR 60.11, with the following additions:

- a. The minimum distance between the observer and the emission source shall be 4.57 meters (15 feet).
- b. The observer shall, when possible, select a position that minimizes interference from other fugitive emissions sources (e.g. road dust). The required observer position relative to the sun (Method 9, Section 2.1) must be followed.
- c. For affected facilities using wet dust suppression for particulate matter control, a visible mist is sometimes generated by the spray. The water mist must not be confused with the particulate matter emissions and is not to be considered a visible emission. When a water mist of this nature is present, the observation of emissions is to be made at a point in the plume where the mist is no longer visible.
- d. The duration of the Method 9 observations may be reduced from 3 hours (thirty 6-minute averages) to 1 hour (ten 6-minute averages) only if there are no individual readings greater than 10% opacity and there are no more than 3 readings of 10% for the 1-hour period.

**F. Miscellaneous Requirements**

None

**PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)**

**A. Applicable Emissions Limitations and/or Control Requirements**

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
F014 - Fractioning Loadout System: Screening. The terms of this permit supercede those identified in PTI No. 01-08135 issued November 30, 2000.	OAC rule 3745-31-05(A)(3)	Particulate emissions (PE) shall not exceed 5.3 lbs/hour and 7.06 TPY.
	40 CFR 60.676(g), Subpart OOO	Wet suppression water sprays shall be used at all times while the emissions unit is in operation.
	OAC rule 3745-17-11	No owner or operator shall cause to be discharged from any screening operation that processes unsaturated material any fugitive emissions which exhibit greater than 10% opacity
		The requirements specified in this rule are less stringent than the best available technology pursuant to OAC rule 3745-31-05 and the NSPS pursuant to 40 CFR 60.672.

**2. Additional Terms and Conditions**

- 2.a According to 40 CFR 60.676(i), a notification of actual date of initial startup of each affected facility shall be submitted to the Administrator. For a combination of affected facilities in a production line that begin actual initial startup on the same day, a single notification of startup may be submitted. The notification shall be postmarked within 15 days after such date and shall include a description of each affected facility, equipment manufacturer, and serial number of the equipment, if available.
- 2.b 5.3 lbs PE /hour represents the maximum potential to emit with controls for the 3,000

tons/hour aggregate crushing and screening operation, therefore, it is not necessary to develop record keeping to determine compliance for this hourly limitation.

- 2.c** 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 if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements.

## **B. Operational Restrictions**

1. The permittee shall operate wet suppression water sprays in a manner sufficient to minimize or eliminate visible emissions of fugitive dust at all times while the emissions unit is in operation.

## **C. Monitoring and/or Recordkeeping Requirements**

1. The permittee shall collect and record a log or record of daily inspections of the wet suppression water sprays for proper function each day in which the emissions unit is in operation.
2. The permittee shall collect and record a log or record of the annual through put to be used in the annual emissions compliance determination calculation, see E.1. below.

## **D. Reporting Requirements**

1. The permittee shall submit deviation (excursion) reports that identify all periods during which the wet suppression water sprays were not functioning properly. The reports shall include the date, time, and duration of each such period.
2. The permittee shall submit annual deviation (excursion) reports that identify compliance with the annual emissions limitation, see C.2. and E.1.
3. The following source is subject to the applicable provisions of the New Source Performance Standards (NSPS) as promulgated by the United States Environmental Protection Agency, 40 CFR Part 60.

<u>Source Number</u>	<u>Source Description</u> (Subpart)	<u>NSPS Regulation</u>
F014	Fractioning Loadout system: Screening	Subpart OOO

The application and enforcement of these standards are delegated to the Ohio EPA. The requirements of 40 CFR Part 60 are also federally enforceable.

Pursuant to the NSPS, the source owner/operator is hereby advised of the requirement to report the following at the appropriate times:

- a. construction date (no later than 30 days after such date);
- b. anticipated start-up date (not more than 60 days or less than 30 days prior to such date);
- c. actual start-up date (within 15 days after such date); and
- d. date of performance testing (If required, at least 30 days prior to testing).

Reports are to be sent to:

Ohio Environmental Protection Agency  
DAPC - Air Quality Modeling and Planning  
P.O. Box 1049  
Columbus, OH 43216-1049

and

Ohio EPA  
Central District Office  
Division of Air Pollution Control  
3232 Alum Creek Drive  
Columbus, OH 43207

## E. Testing Requirements

1. Emissions Limitation:  
5.3 lbs PE /hour, 7.06 TPY PM

Applicable Compliance Method:

AP-42, Table 11.19.2-2, screening emissions factor after conversion from PM-10 to TSP is 0.001764 lb PE /ton controlled

Maximum process rates are 3000 tons/hour, 8,000,000 tons/year.

Screening -  $(0.001764 \text{ lb PE /ton})(3000 \text{ tons/hour}) = 5.3 \text{ lb PE /hour}$

$(0.001764 \text{ lb PE /ton})(8,000,000 \text{ tons/year}) = 7.06 \text{ TPY PM}$

2. Emissions Limitation:

No owner or operator shall cause to be discharged from any screening operation that processes unsaturated material any fugitive emissions which exhibit greater than 10% opacity

Applicable Compliance Method:

40 CFR 60.675(c) In determining compliance with the particulate matter standards in 40 CFR 60.676(g), the owner or operator shall use Method 9 and the procedures in 40 CFR 60.11, with the following additions:

- a. The minimum distance between the observer and the emission source shall be 4.57 meters (15 feet).
- b. The observer shall, when possible, select a position that minimizes interference from other fugitive emissions sources (e.g. road dust). The required observer position relative to the sun (Method 9, Section 2.1) must be followed.
- c. For affected facilities using wet dust suppression for particulate matter control, a visible mist is sometimes generated by the spray. The water mist must not be confused with the particulate matter emissions and is not to be considered a visible emission. When a water mist of this nature is present, the observation of emissions is to be made at a point in the plume where the mist is no longer visible.
- d. The duration of the Method 9 observations may be reduced from 3 hours (thirty 6-minute averages) to 1 hour (ten 6-minute averages) only if there are no individual readings greater than 10% opacity and there are no more than 3 readings of 10% for the 1-hour period.

**F. Miscellaneous Requirements**

None

## PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

### A. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
F015 - Fractioning Loadout system Material Handling: conveying, transfer points, and load out. The terms of this permit supercede those identified in PTI No. 01-08135 issued November 30, 2000.	OAC rule 3745-31-05(A)(3)  40 CFR 60.672(b) NSPS Subpart OOO  OAC rule 3745-17-11	Particulate emissions (PE) shall not exceed 11.83 lbs /hour and 15.74 TPY.  Wet suppression water sprays shall be used at all times while the emissions unit is in operation.  No owner or operator shall cause to be discharged from any transfer point on belt conveyors any fugitive emissions which exhibit greater than 10% opacity  The requirements specified in this rule are less stringent than the best available technology pursuant to OAC rule 3745-31-05 and the NSPS pursuant to 40 CFR 60.672.

### 2. Additional Terms and Conditions

- 2.a According to 40 CFR 60.676(i), a notification of actual date of initial startup of each affected facility shall be submitted to the Administrator. For a combination of affected facilities in a production line that begin actual initial startup on the same day, a single notification of startup may be submitted. The notification shall be postmarked within 15 days after such date and shall include a description of each affected facility, equipment manufacturer, and serial number of the equipment, if available.

Emissions Unit ID: F015

- 2.b** The material handling operation(s) that are covered by this permit and subject to the above-mentioned requirements are listed below:

Fractionating Loadout System conveying and load out

- 2.c** The permittee shall employ best available control measures for the above-identified material handling operation(s) 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 perform the following control measure(s) to ensure compliance:

<u>material handling operation(s)</u>	<u>control measure(s)</u>
Load out system conveying	inherent moisture Wet suppression spray bars
Load out system load out	inherent moisture wet suppression spray bars low drop height

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

- 2.d** For each material handling operation that is not adequately enclosed, the above-identified control measure(s) shall be implemented if the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the control measure(s) is (are) necessary to ensure compliance with the above-mentioned applicable requirements. Any required implementation of the control measure(s) shall continue during the operation of the material handling operation(s) until further observation confirms that use of the control measure(s) is unnecessary.
- 2.e** Implementation of the above-mentioned control measure(s) in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the requirements of OAC rule 3745-31-05.
- 2.f** 11.83 lbs PE/hour represents the maximum potential to emit with controls for the 3,000 tons/hour aggregate crushing and screening operation, therefore, it is not necessary to develop record keeping to determine compliance for this hourly limitation.
- 2.g** 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 if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements.

**B. Operational Restrictions**

1. The permittee shall operate wet suppression water sprays in a manner sufficient to minimize or eliminate visible emissions of fugitive dust at all times while the emissions unit is in operation.

**C. Monitoring and/or Recordkeeping Requirements**

- 1. Except as otherwise provided in this section, for material handling operations that are not adequately enclosed, the permittee shall perform inspections of such operations in accordance with the following minimum frequencies:

<u>material handling operation(s)</u>	<u>minimum inspection frequency</u>
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Fractionating Loadout System conveying and load out	Daily
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- 2. The above-mentioned inspections shall be performed during representative, normal operating conditions.
- 3. The permittee may, upon receipt of written approval from the appropriate Ohio EPA District Office or local air agency, modify the above-mentioned inspection frequencies if operating experience indicates that less frequent inspections would be sufficient to ensure compliance with the above-mentioned applicable requirements.
- 4. The permittee shall maintain records of the following information:
  - a. the date and reason any required inspection was not performed;
  - b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measure(s);
  - c. the dates the control measure(s) was (were) implemented; and
  - d. on a calendar quarter basis, the total number of days the control measure(s) was (were) implemented.

The information in 4.d. shall be kept separately for each material handling operation identified above, and shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

- 5. The permittee shall collect and record a log or record of the annual through put to be used in the annual emissions compliance determination calculation, see E.1. below.

**D. Reporting Requirements**

**National Lime and Stone Co**  
**PTI Application: 01 00004**  
**Issued**

**Facility ID: 0121010115**

Emissions Unit ID: **F015**

1. The permittee shall submit deviation reports that identify any of the following occurrences:
  - a. each day during which an inspection was not performed by the required frequency; and
  - b. each instance when a control measure, that was to be performed as a result of an inspection, was not implemented.
2. The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.
3. The permittee shall submit annual deviation (excursion) reports that identify compliance with the annual emissions limitation, see C.2. and E.1.
4. The following source is subject to the applicable provisions of the New Source Performance Standards (NSPS) as promulgated by the United States Environmental Protection Agency, 40 CFR Part 60.

<u>Source Number</u>	<u>Source Description</u> <u>(Subpart)</u>	<u>NSPS</u>	<u>Regulation</u>
F015	Fractioning Loadout system Material Handling: conveying, transfer points, and load out.		Subpart OOO

The application and enforcement of these standards are delegated to the Ohio EPA. The requirements of 40 CFR Part 60 are also federally enforceable.

Pursuant to the NSPS, the source owner/operator is hereby advised of the requirement to report the following at the appropriate times:

- a. construction date (no later than 30 days after such date);
- b. anticipated start-up date (not more than 60 days or less than 30 days prior to such date);
- c. actual start-up date (within 15 days after such date); and
- d. date of performance testing (If required, at least 30 days prior to testing).

Reports are to be sent to:

Ohio Environmental Protection Agency  
 DAPC - Air Quality Modeling and Planning

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**Nation**

**PTI A**

**Issued: 11/16/2004**

Emissions Unit ID: **F015**

P.O. Box 1049  
Columbus, OH 43216-1049

and

Nation

PTI A

Issued: 11/16/2004

Emissions Unit ID: F015

Ohio EPA  
 Central District Office  
 Division of Air Pollution Control  
 3232 Alum Creek Drive  
 Columbus, OH 43207

## E. Testing Requirements

1. Emissions Limitation:  
 11.83 lbs PE /hour, 15.74 TPY PM

Applicable Compliance Method:

AP-42, Table 11.19.2-2, Conveyor transfer point emission factor is 0.0001008 lb PE /ton controlled

Truck loading emissions factor 0.00021 lb PE /ton.

37 transfer points

Maximum process rates are 3000 tons/hour, 8,000,000 tons/year.

Conveying - (37 transfer points)( 0.0001008 lb PE /ton)(3000 tons/hour) = 11.2 lb PE /hour

(37 transfer points)( 0.0001008 lb PE /ton)(8,000,000 tons/year) = 14.9 TPY

Load out - (0.00021 lb PE/ton)(3000 tons/hour) = 0.63 lb PE /hour

(0.00021 lb PE /ton)(8,000,000 tons/year) = 0.84 TPY

Total = 11.83 lbs PE /hour, 15.74 TPY

2. Emissions Limitation:  
 No owner or operator shall cause to be discharged from any transfer point on belt conveyors any fugitive emissions which exhibit greater than 10% opacity

Applicable Compliance Method:

40 CFR 60.675(c) In determining compliance with the particulate matter standards in 40 CFR 60.672(b), the owner or operator shall use Method 9 and the procedures in 40 CFR 60.11, with the following additions:

- a. The minimum distance between the observer and the emission source shall be 4.57 meters (15 feet).
- b. The observer shall, when possible, select a position that minimizes interference from other fugitive emissions sources (e.g. road dust). The required observer position relative to the sun (Method 9, Section 2.1) must be followed.

- c. For affected facilities using wet dust suppression for particulate matter control, a visible mist is sometimes generated by the spray. The water mist must not be confused with the particulate matter emissions and is not to be considered a visible emission. When a water mist of this nature is present, the observation of emissions is to be made at a point in the plume where the mist is no longer visible.
  
- d. The duration of the Method 9 observations may be reduced from 3 hours (thirty 6-minute averages) to 1 hour (ten 6-minute averages) only if there are no individual readings greater than 10% opacity and there are no more than 3 readings of 10% for the 1-hour period.

**F. Miscellaneous Requirements**

None