



State of Ohio Environmental Protection Agency

Street Address:

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

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

Mailing Address:

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

**RE: FINAL PERMIT TO INSTALL  
DELAWARE COUNTY  
Application No: 01-08815**

**CERTIFIED MAIL**

	TOXIC REVIEW
	PSD
Y	SYNTHETIC MINOR
	CEMS
	MACT
	NSPS
	NESHAPS
	NETTING
	MAJOR NON-ATTAINMENT
	MODELING SUBMITTED
	GASOLINE DISPENSING FACILITY

**DATE: 7/13/2004**

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, Supervisor  
Field Operations and Permit Section  
Division of Air Pollution Control

cc: USEPA

CDO



**Permit To Install  
Terms and Conditions**

**Issue Date: 7/13/2004  
Effective Date: 7/13/2004**

**FINAL PERMIT TO INSTALL 01-08815**

Application Number: 01-08815  
APS Premise Number: 0121010115  
Permit Fee: **\$400**  
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):  
**Secondary crusher engine.**

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

## 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 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 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.

**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>
NOx	8.12
CO	2.16
SO <sub>2</sub>	1.28
PE	0.16
OC	0.23

**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>
B001 - Stationary 650 hp diesel fired engine.	OAC rule 3745-31-05(A)(3)	Emissions shall not exceed:  15.3 pounds per hour (lbs/hr) of nitrogen oxides (NOx);  4.1 lbs/hr of carbon monoxide (CO);  2.42 lbs/hr of sulfur dioxide (SO <sub>2</sub> );  0.42 lbs/hr of volatile organic compounds (VOC).  See Section A.2.a below.  The requirements of this rule also includes compliance with the requirements of OAC rules 3745-31-02(A)(2), 3745-17-11(B)(5)(b) and 3745-17-07(A).
	OAC rule 3745-31-02(A)(2) (Voluntary synthetic minor limits.)	Emissions shall not exceed, as a 12 month rolling summation:  8.12 tons NOx 2.16 tons CO 1.28 tons SO <sub>2</sub> 0.16 tons PE 0.23 tons VOC
	OAC rule 3745-17-07(A)(1)	Visible emissions shall not exceed 20% opacity as a six-minute average, except as provided by rule.

OAC rule 3745-17-11(B)(5)(b)	PE from the engine's exhaust shall not exceed 0.062 lb / MMBtu actual heat input. See Section A.2.b. below.
OAC rule 3745-18-06(B)	See Section A.2.c. below.
OAC rule 3745-21-08(B)	See Section A.2.d. below.
OAC rule 3745-23-06(B)	See Section A.2.e. below.

**2. Additional Terms and Conditions**

- 2.a** The hourly emissions limitations for this emissions unit were established to reflect the potential to emit. Therefore, with the exception of the fuel oil analysis, it is not necessary to develop additional monitoring, record keeping, and/or reporting requirements to ensure compliance with these limits.
- 2.b** This particulate emission limitation shall be effective and federally enforceable on the date the U.S. EPA approves this particulate emission limitation as a revision to the Ohio SIP for particulate matter.
- 2.c** OAC rule 3745-18-06(B) exempts stationary internal combustion engines which have rated heat input capacities equal to, or less than, 10 MMBtu/hr from the sulfur dioxide emission limit in OAC rule 3745-18-06(G). This emissions unit has a rated heat input of 4.79 MMBtu/hr.
- 2.d** The design of the emissions unit and the technology associated with the current operating practices will satisfy the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08.

On November 5, 2002, OAC rule 3745-21-08 was revised to delete paragraph (B); therefore, paragraph (B) is no longer part of the State regulations. However, that rule revision has not yet been submitted to the U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the U.S. EPA approves the revisions to OAC rule 3745-21-08, the requirement to satisfy the "best available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio.

- 2.e** The permittee has satisfied the "latest available control techniques and operating practices required pursuant to OAC rule 3745-23-06(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in this permit to install.

**B. Operational Restrictions**

1. The permittee shall only burn No. 2 or diesel fuel, containing no greater than 0.5% sulfur by weight, in this emissions unit.
  
2. The permittee has requested a federally enforceable limitation on the annual fuel usage for purposes of limiting potential to emit to avoid possible future Title V applicability. Therefore, the maximum volume of fuel input, for emissions unit B001, shall not exceed 36,000 gallons based upon a rolling 12-month summation. To ensure enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the maximum cumulative fuel use (in gallons) as specified in the following table:

<u>Month(s)</u>	<u>Maximum Cumulative Fuel Use (in gallons)</u>
1	4000
1-2	9000
1-3	15,000
1-4	21,000
1-5	27,000
1-6	33,000
1-7	36,000
1-8	36,000
1-9	36,000
1-10	36,000
1-11	36,000
1-12	36,000

After the first 12 calendar months of operation following the startup of emissions unit B001, compliance with the annual operating hours limitation shall be based upon a rolling 12-month summation of the maximum cumulative fuel use (in gallons).

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

1. The permittee shall maintain documentation on the sulfur content of all fuels received.
  
2. For each day during which the permittee burns a fuel other than No. 2 fuel oil or diesel fuel containing no greater than 0.5% sulfur by weight in this emissions unit, the permittee shall maintain a record of the type and quantity of fuel burned.
  
3. The permittee shall maintain monthly records of the following information:
  - a. The total gallons of low sulfur No. 2 fuel oil or diesel fuel consumed by B001 for each month.

- b. During the first 12 calendar months of operation following the issuance of this permit, the cumulative gallons used, calculated by adding the current month's fuel use to the fuel use for each calendar month since the issuance of this permit.
- c. Beginning after the first 12 calendar months of operation following the issuance of this permit, the rolling 12-month summation of the maximum fuel use, calculated by adding the current month's fuel use to the fuel use for the preceding eleven calendar months.

**D. Reporting Requirements**

- 1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than No. 2 fuel oil or diesel fuel containing no greater than 0.5% sulfur by weight was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.
- 2. The permittee shall submit quarterly deviation (excursion) reports which identify the following:
  - a. For the first 12 calendar months of operation following the issuance of this permit, all exceedances of the maximum allowable cumulative fuel use.
  - b. Any exceedance of the rolling 12-month maximum allowable cumulative fuel use.
  - c. Any exceedance of the sulfur content fuel restriction specified in Section B.1.

These deviation (excursion) reports shall be submitted in accordance with Section A.2. of the General Terms and Conditions of this permit.

**E. Testing Requirements**

- 1. Compliance with the emission limitation(s) in Section A.I. of these terms and conditions shall be determined in accordance with the following method(s):
  - a. Emissions Limitation:  
15.0 pounds per hour (lbs/hr) of nitrogen oxides (NO<sub>x</sub>)

Applicable Compliance Method:

$$(34 \text{ gal/hr}) \times (0.141 \text{ MMBtu/gal}) \times (3.2 \text{ lbs NO}_x/\text{MMBtu}) = 15.3 \text{ lbs NO}_x/\text{hr.}$$

Emission factor 3.2 lbs NO<sub>x</sub>/MMBtu (fuel input) is obtained from USEPA's AP-42, Volume I, Fifth Edition, Section 3.4, "Large Stationary diesel and All Stationary Dual-fuel Engines", Table 3.4-1, October 1996.

Emissions testing, if required, shall be conducted using the following test method: 40 CFR Part 60, Appendix A, Method 7. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA Central District Office.

- b. Emissions Limitation:  
4.0 lbs/hr of carbon monoxide (CO)

Applicable Compliance Method:

$$(34 \text{ gal/hr}) \times (0.141 \text{ MMBtu/gal}) \times (0.85 \text{ lbs CO/MMBtu}) = 4.1 \text{ lbs CO/hr.}$$

Emission factor 0.852 lbs CO/MMBtu (fuel input) is obtained from USEPA's AP-42, Volume I, Fifth Edition, Section 3.4, "Large Stationary diesel and All Stationary Dual-fuel Engines", Table 3.4-1, October 1996.

Emissions testing, if required, shall be conducted using the following test method: 40 CFR Part 60, Appendix A, Method 10. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA Central District Office.

- c. Emissions Limitation:  
2.42 lbs/hr of sulfur dioxide (SO<sub>2</sub>)

Applicable Compliance Method:

$$(34 \text{ gal/hr}) \times (0.141 \text{ MMBtu/gal}) \times ((1.01) \times (0.5) \text{ lbs SO}_2/\text{MMBtu}) = 2.42 \text{ lbs SO}_2/\text{hr.}$$

Emission factor 1.01 lbs SO<sub>2</sub>/MMBtu times the sulfur content of the diesel fuel (0.5 %) is obtained from USEPA's AP-42, Volume I, Fifth Edition, Section 3.4, "Large Stationary diesel and All Stationary Dual-fuel Engines", Table 3.4-1, October 1996.

Emissions testing, if required, shall be conducted using the following test method: 40 CFR Part 60, Appendix A, Method 8. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA Southeast District Office.

- d. Emissions Limitation:  
0.43 lbs/hr of volatile organic compounds (VOC)

Applicable Compliance Method:

$$(34 \text{ gal/hr}) \times (0.141 \text{ MMBtu/gal}) \times (0.09 \text{ lbs OC/MMBtu}) = 0.431 \text{ lbs OC/hr.}$$

Emission factor 0.09 lbs OC/MMBtu is obtained from USEPA's AP-42, Volume I, Fifth Edition, Section 3.4, "Large Stationary diesel and All Stationary Dual-fuel Engines", Table 3.4-1, October 1996.

Emissions testing, if required, shall be conducted using the following test method: 40 CFR Part 60, Appendix A, Method 25A. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA Southeast District Office.

- e. Emission Limitation:  
Emissions shall not exceed, as a 12 month rolling summation - 8.12 tons NO<sub>x</sub>, 2.16 tons CO, 1.28 tons SO<sub>2</sub>, 1.28 tons PE, 0.23 tons VOC

**Applicable Compliance Method:**

Compliance with the rolling, 12-month summation for each emission limit, shall be determined by multiplying the current cumulative fuel use, in gallons, by the respective AP-42 emissions factor divided by 2000.

f. **Emission Limitation:**

Particulate emissions from the engine exhaust shall not exceed 0.062 lb / MMBtu actual heat input

**Applicable Compliance Method:**

Compliance shall be determined based on the emission factor of 0.062 lb/MMBtu specified in the U.S. EPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 3.3, Table 3.3-1 (10/96).

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in OAC rule 3745-17-03(B)(10).

g. **Emission Limitation:**

Visible emissions shall not exceed 20% opacity as a six-minute average.

**Applicable Compliance Method:**

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

**F. Miscellaneous Requirements**

None