Facility Name: **Genlime**
Application Number: **03-3117**
Date: **February 11, 1999**

GENERAL PERMIT CONDITIONS

TERMINATION OF PERMIT TO INSTALL

Substantial construction for installation must take place within 18 months of the effective date of this permit. 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.

NOTICE OF INSPECTION

The Director of the Ohio Environmental Protection Agency, or his authorized representatives, may enter upon the premises of the above-named applicant during construction and operation at any reasonable time for the purpose of making inspections, conducting tests, or to examine records or reports pertaining to the construction, modification or installation of the source(s) of environmental pollutants identified within this permit.

CONSTRUCTION OF NEW SOURCES

The proposed source(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 are inadequate or cannot meet applicable standards.

If the construction of the proposed source(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 Ohio Administrative Code (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 applicable standards.

PERMIT TO INSTALL FEE

In accordance with Ohio Revised Code 3745.11, the specified Permit to Install fee must be remitted within 30 days of the effective date of this permit to install.

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.

APPLICABILITY

This Permit to Install is applicable only to the contaminant sources identified. Separate application must be made to the Director for the installation or modification of any other contaminant sources.

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.

PERMIT TO OPERATE APPLICATION

A Permit to Operate application must be submitted to the appropriate field office for each air contaminant source in this Permit to Install. In accordance with OAC Rule 3745-35-02, the application shall be filed no later than thirty days after commencement of operation.

SOURCE OPERATION 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 and regulations.

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Ohio EPA Source Number	Source Identification Number	BAT Determination	Applicable Federal & OAC Rules	Permit Allowable Mass Emissions and/or Control/Usage Requirements

AIR EMISSION SUMMARY

The air contaminant emissions units listed below comprise the Permit to Install for **Genlime** located in **Ottawa** County. The emissions units listed below shall not exceed the emission limits/control requirements contained in the table. This condition in no way limits the applicability of any other state or federal regulations. Additionally, this condition does not limit the applicability of additional special terms and conditions of this permit.

Ohio EPA Source Number	Source Identification Description
P901	Hydrated lime storage silo, bucket elevator and loadout equipment

P019 Hydrated lime product separation cyclone

P019 Cont'd

Facility Name: **Genlime**
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Ohio EPA Source Number	Source Identification Number	BAT Determination	Applicable Federal & OAC Rules	Permit Allowable Mass Emissions and/or Control/Usage Requirements
		of this permit		
		BAT Determination		
		Use of dead box loadout, baghouse and compliance with the terms and conditions of this permit		
		Compliance with the terms and conditions		

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Ohio EPA Source Number	Source Identification Number	BAT Determination	Applicable Federal & OAC Rules	Permit Allowable Mass Emissions and/or Control/Usage Requirements
				1.80 tons PE/year
			Permit Allowable Mass Emissions and/or Control/Usage Requirements	0 percent opacity as a 6 minute average
	Applicable Federal & OAC Rules			
				*
	3745-31-05	3745-17-07(A)	Baghouse Emissions:	*
		3745-17-11		
			0.41 pound Particulate Emissions (PE)/hour and 1.80 tons PE/year	
			0 percent opacity as a 6 minute average	
			Fugitive Emissions:	
			0.50 ton PE/year	
			5 percent opacity as a 3 minute average	
	3745-17-07(A)		*	
	3745-17-11		*	
	3745-31-05		0.41 pound Particulate Emissions (PE)/hour and	

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Ohio EPA Source Number	Source Identification Number	BAT Determination	Applicable Federal & OAC Rules	Permit Allowable Mass Emissions and/or Control/Usage Requirements

* The emissions limits based on these applicable rules are less stringent than the limits established pursuant to OAC rule 3745-31-05.

SUMMARY
TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS

Pollutant	Tons/Year
PE	4.10

REPORTING REQUIREMENTS

Unless otherwise specified, reports required by the Permit to Install need only be submitted to **Ohio EPA, Northwest District Office, 347 North Dunbridge Road, Bowling Green, OH 43402.**

WASTE DISPOSAL

The owner/operator shall comply with any applicable state and federal requirements governing the storage, treatment, transport and disposal of any waste material generated by the operation of the sources.

MAINTENANCE OF EQUIPMENT

This source and its associated air pollution control system(s) shall be maintained regularly in accordance with good engineering practices and the recommendations of the respective manufacturers in order to minimize air contaminant emissions.

MALFUNCTION/ABATEMENT

In accordance with OAC RULE 3745-15-06, any malfunction of the source(s) or associated air pollution control system(s) shall be reported immediately to the **Ohio EPA, Northwest District Office, 347 North Dunbridge Road, Bowling Green, OH 43402.**

Except as provided by OAC Rule 3745-15-06(A)(3), scheduled maintenance of air pollution control equipment that requires the shutdown or bypassing of air pollution control system(s) must be accompanied by the shutdown of the associated air pollution sources.

AIR POLLUTION NUISANCES PROHIBITED

The air contaminant source(s) identified in this permit may not cause a public nuisance in violation of OAC Rule 3745-15-07.

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.

ADDITIONAL SPECIAL TERMS AND CONDITIONS

Introduction

This registration PTI is for the installation of emissions unit P901 which involves a

hydrated lime storage silo, bucket elevator, and loadout equipment. This registration PTI also allows for the installation of a hydrated lime product separation cyclone (emissions unit P019).

A. Applicable Emission Limitations and/or Control Requirements

1. No additional applicable emission limitations than those specified in the Air Emissions Summary.

B. Operational Restrictions

1. The pressure drop across the baghouse associated with emissions unit P901 shall be maintained within the range of * inches of water while the emissions unit is in operation.

   * Not more than 180 days following the initial startup of the emissions unit, the permittee shall notify the Ohio EPA in writing of the pressure drop across the baghouse. The permittee shall operate the baghouse in accordance with these reported values.

2. The permittee shall not exceed an annual product throughput of 70,000 tons for emissions unit P901.

C. Monitoring and/or Record keeping Requirements

1. The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the baghouse while the associated emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a once per shift basis.

2. The permittee shall maintain annual records the product throughput for emissions units P901.

3. 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, if a strip-chart recorder is employed, for continuous monitoring instrumentation, and copies of all reports required by the permit. Such records may be maintained in computerized form.

D. Reporting Requirements

1. The permittee shall submit pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified in section B.1. These reports shall be submitted in accordance with the requirements of section D.2.

2. The permittee shall submit annual deviation (excursion) reports which identify any exceedance of the throughput restriction contained in section B.2 for emissions unit P901. These reports shall include the corrective

actions that were taken to achieve compliance and shall be submitted by January 31 of each year.

3. The permittee shall submit quarterly written reports for emissions units P901 and P019 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 Ohio EPA, Northwest District Office. 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).

E. Testing Requirements

1. Compliance with the emissions limitations in the permit to install shall be determined in accordance with the following methods:

a. Emissions Unit P901

i. Fugitive Emission Limitations:

aa. Visible fugitive PE shall not exceed 5 percent opacity, as a 3-minute average.

Applicable Compliance Method:

Compliance with the visible emission limitations shall be determined in accordance with 40 CFR 60, Appendix A-Method 9

ab. 0.50 ton PE/yr

Applicable Compliance Method:

The ton/yr limitation was developed by applying a 99

percent control efficiency for use of dead box loading to an uncontrolled emission factor of 1.5 lbs PE/ton of product loaded and a maximum annual product throughput of 70,000 tons. Compliance shall be demonstrated by using the actual annual product throughput from recordkeeping specified in section C.2.

ii. Baghouse Emissions Limitations:

aa. 0.41 lb PE/hr

Applicable Compliance Method:

The lb/hr limitation was developed by using a baghouse performance standard of 2.28 x 10^{-7} lb/dscf and a maximum air flow rate of 180,000 cf per hour. If required, compliance with the PE limitation shall be determined in accordance with the test method and procedures in OAC rule 3745-17-03(B(10).

ab. 1.80 tons PE/yr

Applicable Compliance Method:

The annual PE emission limitation was developed by multiplying the lb/hr limitation by the maximum operating schedule of 8,760 hrs/yr, and dividing by 2000 lbs/ton. Therefore, provided compliance is shown with hourly limitations, compliance will also be shown with the annual limitation.

ac. 0 percent opacity as a six-minute average

Applicable Compliance Method:

Compliance with visible emission limitations shall be determined in accordance with 40 CFR 60, Appendix A-Method 9.

b. <u>Emissions Unit P019</u>

i. Emission Limitations:

aa. 0.41 lb PE/hr

Applicable Compliance Method:

The lb/hr limitation was developed by using a baghouse performance standard of 2.28 x 10^{-7} lb/dscf and a maximum air flow rate of 180,000 cf per hour. If required, compliance with the PE limitation shall be determined in accordance with the test method and procedures in OAC rule 3745-17-03(B(10).

ab. 1.80 tons PE/yr

Applicable Compliance Method:

The annual PE emission limitation was developed by multiplying the lb/hr limitation by the maximum operating schedule of 8,760 hrs/yr, and dividing by 2000 lbs/ton. Therefore, provided compliance is shown with hourly limitations, compliance will also be shown with the annual limitation.

ac. 0 percent opacity as a six-minute average

Applicable Compliance Method:

Compliance with visible emission limitations shall be determined in accordance with 40 CFR 60, Appendix A-Method 9.

F. Miscellaneous Requirements

1. None.