



State of Ohio Environmental Protection Agency

**RE: DRAFT PERMIT TO INSTALL
SANDUSKY COUNTY**

CERTIFIED MAIL

Street Address:

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

Mailing Address:

Lazarus Gov.
Center

Application No: 03-17089

Fac ID: 0372000127

DATE: 5/29/2008

Martin Marietta Materials
Greg Sparks
755 Lime Road
Woodville, OH 43469

You are hereby notified that the Ohio Environmental Protection Agency has made a draft action recommending that the Director issue a Permit to Install for the air contaminant source(s) [emissions unit(s)] shown on the enclosed draft permit. This draft action is not an authorization to begin construction or modification of your emissions unit(s). The purpose of this draft is to solicit public comments on the proposed installation. A public notice concerning the draft permit will appear in the Ohio EPA Weekly Review and the newspaper in the county where the facility will be located. Public comments will be accepted by the field office within 30 days of the date of publication in the newspaper. Any comments you have on the draft permit should be directed to the appropriate field office within the comment period. A copy of your comments should also be mailed to Robert Hodanbosi, Division of Air Pollution Control, Ohio EPA, P.O. Box 1049, Columbus, OH, 43216-1049.

A Permit to Install may be issued in proposed or final form based on the draft action, any written public comments received within 30 days of the public notice, or record of a public meeting if one is held. You will be notified in writing of a scheduled public meeting. Upon issuance of a final Permit to Install a fee of **\$6000** will be due. Please do not submit any payment now.

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. If you have any questions about this draft permit, please contact the field office where you submitted your application, or Mike Ahern, Field Operations & Permit Section at (614) 644-3631.

Sincerely,

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

CC: USEPA

NWDO

TOLEDO METRO AREA COUNCIL OF GOVTS

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SANDUSKY COUNTY

**PUBLIC NOTICE
OHIO ENVIRONMENTAL PROTECTION AGENCY
ISSUANCE OF DRAFT PERMIT TO INSTALL
SUBJECT TO PREVENTION OF SIGNIFICANT DETERIORATION REVIEW
TO MARTIN MARIETTA SPECIALTIES, LLC - WOODVILLE FACILITY- SANDUSKY COUNTY,
OHIO
PTI NUMBER 03-17089**

Public Notice is hereby given that the Staff of the Ohio Environmental Protection Agency (EPA) has recommended to the Director that the Ohio EPA issue a draft action of a Permit to Install (PTI) to Martin Marietta Magnesia Specialties, LLC - Woodville Facility, located in Sandusky County, Ohio. The draft action (permit no. 03 -7089) was issued on May 29, 2008. This draft permit proposes the installation of a new 37.5 ton per hour rotary lime kiln system and support operations.

Due to the proposed changes, air emissions of several pollutants will result. The proposed allowable criteria pollutant air emission rates which result from net increases at the facility are listed below, in tons per year.

<u>Pollutant</u>	<u>Tons/yr</u>
PM10	50.45 (12.96 fugitive)
PE	34.28 (fugitive)
NOx	670.43
CO	328.50
SO2	279.23

This facility is subject to the applicable provisions of the Prevention of Significant Deterioration (PSD) regulations as promulgated by U.S. EPA (40 CFR 52.21) and the Ohio EPA permit to install requirements (OAC 3745-31). [The proposed project exceeds the PSD significant emission rate for PM10, NOx, CO, and SO2.]

Within 30 days from the date of this notice, any interested party may submit comments or request a public hearing. Comments are to be sent to Melanie Ray of the Northwest District Office, Ohio Environmental Protection Agency, 347 North Dunbridge Road, Bowling Green, Ohio, 43402.

Copies of the draft permit application and technical support information may be reviewed and/or copies made by first calling to make an appointment at the Northwest District Office at the above address during normal business hours. Telephone number: (419) 352-8461.



**Permit To Install
Terms and Conditions**

**Issue Date: To be entered upon final issuance
Effective Date: To be entered upon final issuance**

DRAFT PERMIT TO INSTALL 03-17089

Application Number: 03-17089
Facility ID: 0372000127
Permit Fee: **To be entered upon final issuance**
Name of Facility: Martin Marietta Materials
Person to Contact: Greg Sparks
Address: 755 Lime Road
Woodville, OH 43469

Location of proposed air contaminant source(s) [emissions unit(s)]:
**755 Lime Road
Woodville, Ohio**

Description of proposed emissions unit(s):
PSD application for a new lime kiln system.

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

Chris Korleski
Director

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Issued: To be entered upon final issuance
Part I - GENERAL TERMS AND CONDITIONS

Facility ID: 0372000127

A. State and Federally Enforceable Permit-To-Install General Terms and Conditions

1. Monitoring and Related Recordkeeping and Reporting Requirements

- a. Except as may otherwise be provided in the terms and conditions for a specific emissions unit, the permittee shall maintain records that include the following, where applicable, for any required monitoring under this permit:
 - i. The date, place (as defined in the permit), and time of sampling or measurements.
 - ii. The date(s) analyses were performed.
 - iii. The company or entity that performed the analyses.
 - iv. The analytical techniques or methods used.
 - v. The results of such analyses.
 - vi. The operating conditions existing at the time of sampling or measurement.
- b. Each record of any monitoring data, testing data, and support information required pursuant to this permit shall be retained for a period of five years from the date the record was created. Support information shall include, 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.
- c. Except as may otherwise be provided in the terms and conditions for a specific emissions unit, the permittee shall submit required reports in the following manner:
 - i. Reports of any required monitoring and/or recordkeeping of federally enforceable information shall be submitted to the appropriate Ohio EPA District Office or local air agency.
 - ii. Quarterly written reports of (i) any deviations from federally enforceable emission limitations, operational restrictions, and control device operating parameter limitations, excluding deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06, that have been detected by the testing, monitoring and recordkeeping requirements specified in this permit, (ii) the probable cause of such deviations, and (iii) any corrective actions or preventive measures taken, shall be made to the appropriate Ohio EPA District Office or local air agency. The written

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reports shall be submitted (i.e., postmarked) quarterly, by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. See B.9 below if no deviations occurred during the quarter.

- iii. Written reports, which identify any deviations from the federally enforceable monitoring, recordkeeping, and reporting requirements contained in this permit shall be submitted (i.e., postmarked) to the appropriate Ohio EPA District Office or local air agency every six months, by January 31 and July 31 of each year for the previous six calendar months. If no deviations occurred during a six-month period, the permittee shall submit a semi-annual report, which states that no deviations occurred during that period.
 - iv. If this permit is for an emissions unit located at a Title V facility, then each written report shall be signed by a responsible official certifying that, based on information and belief formed after reasonable inquiry, the statements and information in the report are true, accurate, and complete.
- d. The permittee shall report actual emissions pursuant to OAC Chapter 3745-78 for the purpose of collecting Air Pollution Control Fees.

2. Scheduled Maintenance/Malfunction Reporting

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. The malfunction, i.e., upset, 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. (The definition of an upset condition shall be the same as that used in OAC rule 3745-15-06(B)(1) for a malfunction.) The verbal and written reports shall be submitted pursuant to 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 emission unit(s) that is (are) served by such control system(s).

3. Risk Management Plans

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

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permittee shall comply with the requirement to register such a plan.

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4. Title IV Provisions

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

5. Severability Clause

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

6. General Requirements

- a. The permittee must comply with all terms and conditions of this permit. Any noncompliance with the federally enforceable terms and conditions of this permit constitutes a violation of the Act, and is grounds for enforcement action or for permit revocation, revocation and re-issuance, or modification
- b. It shall not be a defense for the permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the federally enforceable terms and conditions of this permit.
- c. This permit may be modified, revoked, or revoked and reissued, for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or revocation, or of a notification of planned changes or anticipated noncompliance does not stay any term and condition of this permit.
- d. This permit does not convey any property rights of any sort, or any exclusive privilege.
- e. The permittee shall furnish to the Director of the Ohio EPA, or an authorized representative of the Director, upon receipt of a written request and within a reasonable time, any information that may be requested to determine whether cause exists for modifying or revoking this permit or to determine compliance with this permit. Upon request, the permittee shall also furnish to the Director or an authorized representative of the Director, copies of records required to be kept by this permit. For information claimed to be confidential in the submittal to the Director, if the Administrator of the U.S. EPA requests such information, the

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permittee may furnish such records directly to the Administrator along with a claim of confidentiality.

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7. Fees

The permittee shall pay fees to the Director of the Ohio EPA in accordance with ORC section 3745.11 and OAC Chapter 3745-78. The permittee shall pay all applicable permit-to-install fees within 30 days after the issuance of any permit-to-install. The permittee shall pay all applicable permit-to-operate fees within thirty days of the issuance of the invoice.

8. Federal and State Enforceability

Only those terms and conditions designated in this permit as federally enforceable, that are required under the Act, or any its applicable requirements, including relevant provisions designed to limit the potential to emit of a source, are enforceable by the Administrator of the U.S. EPA and the State and by citizens (to the extent allowed by section 304 of the Act) under the Act. All other terms and conditions of this permit shall not be federally enforceable and shall be enforceable under State law only.

9. Compliance Requirements

- a. Any document (including reports) required to be submitted and required by a federally applicable requirement in this permit shall include a certification by a responsible official that, based on information and belief formed after reasonable inquiry, the statements in the document are true, accurate, and complete.
- b. Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the Director of the Ohio EPA or an authorized representative of the Director to:
 - i. At reasonable times, enter upon the permittee's premises where a source is located or the emissions-related activity is conducted, or where records must be kept under the conditions of this permit.
 - ii. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit, subject to the protection from disclosure to the public of confidential information consistent with ORC section 3704.08.
 - iii. Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit.
 - iv. As authorized by the Act, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit and applicable requirements.
- c. The permittee shall submit progress reports to the appropriate Ohio EPA District

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Office or local air agency concerning any schedule of compliance for meeting an applicable requirement. Progress reports shall be submitted semiannually, or more frequently if specified in the applicable requirement or by the Director of the Ohio EPA. Progress reports shall contain the following:

- i. Dates for achieving the activities, milestones, or compliance required in any schedule of compliance, and dates when such activities, milestones, or compliance were achieved.
- ii. An explanation of why any dates in any schedule of compliance were not or will not be met, and any preventive or corrective measures adopted.

10. Permit-To-Operate Application

- a. If the permittee is required to apply for a Title V permit pursuant to OAC Chapter 3745-77, the permittee shall submit a complete Title V permit application or a complete Title V permit modification application within twelve (12) months after commencing operation of the emissions units covered by this permit. However, if the proposed new or modified source(s) would be prohibited by the terms and conditions of an existing Title V permit, a Title V permit modification must be obtained before the operation of such new or modified source(s) pursuant to OAC rule 3745-77-04(D) and OAC rule 3745-77-08(C)(3)(d).
- b. If the permittee is required to apply for permit(s) pursuant to OAC Chapter 3745-35, the source(s) identified in this permit is (are) permitted to operate for a period of up to one year from the date the source(s) commenced operation. 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 source(s) covered by this permit.

11. 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.

12. Air Pollution Nuisance

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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.

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13. Permit-To-Install

A permit-to-install must be obtained pursuant to OAC Chapter 3745-31 prior to "installation" of "any air contaminant source" as defined in OAC rule 3745-31-01, or "modification", as defined in OAC rule 3745-31-01, of any emissions unit included in this permit.

B. State Only Enforceable Permit-To-Install General Terms and Conditions

1. Compliance Requirements

The emissions unit(s) identified in this Permit 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 of state-only enforceable 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 state-only required 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 (i.e., postmarked) quarterly, by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. (These quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06.)

3. 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

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of any transfer of this permit.

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4. Authorization To Install or Modify

If applicable, authorization to install or modify any new or existing emissions unit included in this permit shall terminate within eighteen months of the effective date of the permit 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.

5. Construction of New Sources(s)

This permit does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. This permit does not constitute expressed or implied assurance that the proposed facility has been constructed in accordance with the application and terms and conditions of this permit. 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 this permit does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. Issuance of this permit 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.

6. 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.

7. Applicability

This Permit to Install is applicable only to the emissions unit(s) identified in the Permit To Install. Separate application must be made to the Director for the installation or modification of any other emissions unit(s).

8. Construction Compliance Certification

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If applicable, the applicant shall provide Ohio EPA with a written certification (see enclosed form if applicable) 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.

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

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

C. 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 (fugitive)	34.28
PM10 (fugitive)	12.96
PM10	50.45
SO2	279.23
NOx	670.43
CO	328.50
OC	39.42
HCl	47.30

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Part II - FACILITY SPECIFIC TERMS AND CONDITIONS

A. State and Federally Enforceable Permit To Install Facility Specific Terms and Conditions

The following emissions units contained in this permit are subject to 40 CFR Part 63, Subpart AAAAA, National Emission Standards for Hazardous Air Pollutants: Lime Manufacturing Plants: P902. The complete MACT requirements, including the MACT General Provisions may be accessed via the internet from the Electronic Code of federal Regulations (e-CFR) website <http://ecfr.gpoaccess.gov> or by contacting the Ohio EPA, Northwest District Office.

B. State Only Enforceable Permit To Install Facility Specific Terms and Conditions

None

Emissions Unit ID: F005

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Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. State and Federally Enforceable Section

I. 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.

Operations, Property, and/or Equipment - (F005) - 1000 tons/hr aggregate processing line (modification to PTI 03-13098, issued 12/21/98 to increase annual throughput and account for emissions from the installation of new equipment)

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
OAC rule 3745-31-10 through OAC rule 3745-31-20	26.90 tons fugitive particulate emissions (PE)/rolling, 12-month period 9.79 tons fugitive particulate matter 10 microns or less in size (PM10)/rolling, 12-month period See A.I.2.a Best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see A.I.2.b through A.I.2.d)
OAC rule 3745-31-05 (A)(3)	See A.I.2.e.
OAC rule 3745-17-07 (B) (1)	See A.I.2.g.
OAC rule 3745-17-08 (B)	See A.I.2.g.
40 CFR, Part 60, Subpart OOO	Visible emissions restrictions (See. A.I.2.g)
OAC rule 3745-31-05(A)(3)(b)	See A.I.2.f.

2. Additional Terms and Conditions

- 2.a The permittee shall employ Best Available Control Technology (BACT) for controlling fugitive PE/PM10 from this emissions unit. BACT has been determined to be the following:
 - i. use of best available control measures (See A.I.2.b)
 - ii. compliance with the requirements established pursuant to 40 CFR, Part 60, Subpart OOO (See A.I.2.g)

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- 2.b** The permittee shall employ best available control measures for this emissions unit for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permit application, the permittee maintains that the inherent moisture content of the material handled/processed is at a level that is more than sufficient to comply with all applicable requirements. If at any time the moisture content is not sufficient to meet the above applicable requirements, the permittee shall employ best available control measures to ensure compliance.

Best available control measures also include the following emission points being contained within tunnel enclosures:

- surge pile vibrating feeder #1
- surge pile vibrating feeder #2
- #7 Kiln Feed Belt 1
- vibrating feeder A
- vibrating feeder B
- vibrating feeder C
- vibrating feeder D
- vibrating feeder E

- 2.c** For each material handling/processing 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 aggregate processing operation(s) until further observation confirms that use of the control measure(s) is unnecessary.
- 2.d** 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 3745-31-10 through OAC rule 3745-31-20.
- 2.e** The requirements of this rule also include compliance with 40 CFR, Part 60, Subpart OOO and OAC rule 3745-31-10 through 20, except as indicated below.
- 2.f** The Best Available Technology (BAT) requirements under OAC rule 3745-31-05(A)(3) do not apply to the PM10 emissions from this air contaminant source since the calculated annual emission rate for PM10 emissions is less than ten tons per year taking into account the federally enforceable maximum annual aggregate throughput of 5,000,000 tons and the requirement to apply best available control measures under OAC rule 3745-31-10 through 20.

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- 2.g** The emissions limitations and control measure requirements specified by these rules are less stringent than the emissions limitations and control measure requirements established pursuant to OAC rule 3745-31-10 through 20.
- 2.h** The permittee shall not cause to be discharged into the atmosphere, fugitive emissions which exhibit greater than the following:

Material Handling/Processing Operation	Opacity limit, as a six-minute average
all crushers	15%
all screens and transfer points	10%

All material handling/processing operations are required to comply with the above opacity limits in accordance with 40 CFR Part 60, Subpart OOO and/or OAC rule 3745-31-10 through 20. The following table identifies all material handling/processing operations for this emissions unit applicable to the above opacity limitations:

Emission Point (Company ID)	Equipment Type
32-0133	crusher
7' cone crusher	crusher
32-0459	crusher
53-0320	screen
53-0326	screen
53-0327	screen
53-0302	screen
29-1953	transfer point
29-1332	transfer point
29-1331	transfer point
surge pile feed belt conveyor	transfer point
surge pile vibrating feeder #1	transfer point
surge pile vibrating feeder #2	transfer point
surge pile tunnel belt	transfer point
secondary crusher feed belt	transfer point
secondary crusher discharge belt	transfer point
29-3893	transfer point
29-3894	transfer point

Emissions Unit ID: F005

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29-3895	transfer point
29-3896	transfer point
29-3898	transfer point
29-3899	transfer point
29-3900	transfer point
29-3897	transfer point
29-1329	transfer point
29-1330	transfer point
29-5725	transfer point
29-5726	transfer point
29-5730	transfer point
29-5731	transfer point
29-5727	transfer point
29-5728	transfer point
29-5729	transfer point
29-3915	transfer point
29-3916	transfer point
29-3917	transfer point
29-3918	transfer point
29-3919	transfer point
29-3920	transfer point
vibrating feeder A	transfer point
vibrating feeder B	transfer point
vibrating feeder C	transfer point
vibrating feeder D	transfer point
vibrating feeder E	transfer point
29-1328	transfer point
29-5708	transfer point
29-3693	transfer point
east discharge belt	transfer point
west discharge belt	transfer point
29-1325	transfer point
29-2168	transfer point
29-3912	transfer point
29-3756	transfer point
29-1316	transfer point
#7 kiln feed belt 1	transfer point
#7 kiln feed belt 2	transfer point
#7 kiln feed belt 3	transfer point

- 2.i** The application and enforcement of the provisions of NSPS, as promulgated by the United State Environmental Protection Agency, 40 CFR Part 60, are delegated to the Ohio Environmental Protection

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Agency. The requirements for 40 CFR Part 60 are also federally enforceable.

II. Operational Restrictions

1. The maximum annual aggregate throughput for this emissions unit shall not exceed 5,000,000 tons, based upon a rolling, 12-month summation of the monthly aggregate throughput rates. This restriction is based on the aggregate throughput of the primary crusher.

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall collect and record the following information each month for this emissions unit:
 - a. the amount of aggregate processed through the primary crusher of this emissions unit, in tons; and
 - b. the rolling, 12-month aggregate throughput for the primary crusher, in tons.
2. 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:

Material Handling/Processing Operations
All

Minimum Inspection Frequency
Once During Each Day of Operation

3. The above-mentioned inspections shall be performed during representative, normal operating conditions.
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.

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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.

IV. Reporting Requirements

1. The permittee shall submit deviation reports, in accordance with the General Terms and Conditions of this permit, that identify any of the following occurrences:
 - a. each day during which an inspection was not performed by the required frequency; and
 - b. each instance when a control measure, that was to be performed as a result of an inspection, was not implemented.
 - c. all exceedances of the rolling, 12-month aggregate throughput restriction of 5,000,000 tons.
2. The permittee shall submit written reports of the results of all performance tests conducted to demonstrate compliance with the standards set forth in 40 CFR, Part 60, Subpart OOO, including the reports of opacity observations using Method 9 to demonstrate compliance with this subpart.
3. The permittee shall submit the following information for each piece of equipment that is replaced by a piece of equipment having the same function as the existing facility:
 - a. for a crusher:
 - i. the rated capacity, in tons per hour, of the existing facility being replaced, and
 - ii. the rated capacity, in tons per hour, of the replacement equipment; and
 - b. for a screen:
 - i. the rated capacity, in tons per hour, of the existing facility being replaced, and
 - ii. the rated capacity, in tons per hour, of the replacement equipment; and

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- c. for a conveyor belt:
 - i. the width of the existing belt being replaced, and
 - ii. the width of the replacement conveyor belt.

The notification shall be submitted within 30 days after the equipment replacement.

4. Pursuant to the general provisions of NSPS, the source owner/operator is hereby advised of the requirement to report the following at the appropriate times for the "new" equipment to be added to this emissions unit:
 - a. construction date (no later than 30 days after such date);
 - b. actual start-up date (within 15 days after such date); and
 - c. date of performance testing (if required, at least 30 days prior to testing).

Reports are to be sent to:

Ohio Environmental Protection Agency
 DAPC - Permit Issuance and Data Management
 50 West Town Street, Suite 700
 P.O. Box 1049
 Columbus, OH 43216-1049

and Ohio EPA, Northwest District Office
 347 North Dunbridge Road
 Bowling Green, OH 43402

V. Testing Requirements

1. The permittee shall conduct or have conducted, emission testing for the crushers and transfer points associated with the following equipment for emissions unit F005:

crusher:
 32-0133

conveyors:
 29-1332, 29-1331, surge pile feed belt conveyor, surge pile vibrating feeder #1, surge pile vibrating feeder #2, surge pile tunnel belt, secondary crusher feed belt, 29-1329, 29-1330, vibrating feeder A, vibrating feeder B, vibrating feeder C, vibrating feeder D, vibrating feeder E, 29-1328, east discharge belt, west discharge belt, 29-1325, 29-1316, new kiln feed belt #1, new kiln feed belt #2, new kiln feed belt #3

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Testing shall be conducted in accordance with the provisions of 40 CFR Part 60, Subpart A, Section 60.8 and 40 CFR Part 60, Subpart OOO, Section 60.675.

The emission testing shall be conducted within 60 days after achieving representative operating conditions at which the affected facility will be operated, by not later than 180 days after initial startup of such facility and at such other times as may be required by the Ohio Environmental Protection Agency, Division of Air Pollution Control. The emission testing shall be conducted to demonstrate compliance with the allowable visible emission rates for particulate emissions.

The following test methods shall be employed to demonstrate compliance with the allowable visible emissions rates:

- a. Method 9 of 40 CFR Part 60, Appendix A shall be used to determine opacity.

The tests shall be conducted while the emissions unit is operating at representative operating conditions, unless otherwise specified or approved by the Ohio EPA, Division of Air Pollution Control. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Ohio EPA, Division of Air Pollution Control. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operation parameters, the times and dates of the tests, and the person(s) who will be conducting the tests. Failure to submit such notification for review and approval prior to the tests may result in the Ohio EPA District Office's air agency's refusal to accept the results of the emission tests.

Personnel from the Ohio EPA District Office's air agency shall be permitted to witness the test, examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions unit and /or the performance of the control equipment. A comprehensive written report on the emissions tests shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA Division of Air Pollution Control within 30 days following completion of the tests.

2. Compliance with the emissions limitations specified in Section A.I.1 of these terms and conditions shall be determined in accordance with the following methods:

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- a. Emission Limitation:
26.90 tons fugitive PE/rolling, 12-month period
9.79 tons fugitive PM10/rolling, 12-month period

Applicable Compliance Method:

The annual fugitive PE/PM10 limitations are the summation of emissions from the crushers, screens and transfer points based on a maximum annual throughput of 5,000,000 tons through the primary crusher and the corresponding annual throughput for each additional crusher, screen and transfer point.

The annual limitations for PE/PM10 are calculated using controlled emissions factors from AP-42, Section 11.19.2-2 (8/04) of 0.0012 lb PE/ton and 0.00054 lb PM-10/ton for crushing, 0.0022 lb PE/ton and 0.00074 lb PM-10/ton for screening and 0.00014 lb PE/ton and 0.000046 lb PM10/ton for transfer points multiplied by the maximum annual throughput for each crusher, screen and transfer point and divided by 2000.

Provided compliance is shown with the requirements of this permit to employ best available control measures and the rolling, 12-month aggregate throughput restriction, compliance with the annual PE and PM10 limitations shall be assumed.

- b. Emission Limitation:
The permittee shall not 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% opacity.

Applicable Compliance Method:

If required, compliance shall be demonstrated using Method 9 of 40 CFR, Part 60, Appendix A, and the procedures in 40 CFR, Part 60, Subpart OOO. Testing of crusher 32-0133 is required as specified in sections A.V.1-6 above.

- c. Emission Limitation:
The permittee shall not cause to be discharged into the atmosphere from any transfer point or screen any fugitive emissions which exhibit greater than 10% opacity.

Applicable Compliance Method:

Compliance shall be demonstrated using Method 9 of 40 CFR, Part 60, Appendix A, and the procedures in 40 CFR, Part 60, Subpart OOO.

- d. Emission Limitation:
The maximum annual aggregate throughput for this emissions unit shall not exceed 5,000,000 tons, based upon a rolling, 12-month summation of the monthly aggregate throughput rates.

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Applicable Compliance Method:

Compliance shall be demonstrated by the monitoring and record keeping requirements in section A.III.1.

VI. Miscellaneous Requirements

None

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B. State Only Enforceable Section

I. 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.

Operations, Property, and/or Equipment - (F005) - 1000 tons/hr aggregate processing line (modification to PTI 03-13098, issued 12/21/98 to increase annual throughput and account for emissions from the installation of new equipment)

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
None	None

2. **Additional Terms and Conditions**

- 2.a None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

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Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. State and Federally Enforceable Section

I. 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.

Operations, Property, and/or Equipment - (F009) - #7 kiln coal/coke cleaning, crushing and crushed material handling, including bowl mill, day bins, fuel weigh belt, and kiln fuel belts #1 & 2

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
OAC rule 3745-31-10 through OAC rule 3745-31-20	3.15 tons fugitive particulate emissions (PE)/rolling, 12-month period 0.95 ton fugitive particulate matter 10 microns or less in size (PM10)/rolling, 12-month period Visible emissions of fugitive dust shall not exceed 20% opacity, as a 3-minute average, from the building enclosing the crushed coal/coke material handling operation. See A.I.2.a.
OAC rule 3745-31-05(A)(3)(b)	See A.I.2.b.
OAC rule 3745-17-07 (B) (1)	See A.I.2.c.
OAC rule 3745-17-08 (B)	See A.I.2.c.

2. Additional Terms and Conditions

- 2.a The permittee shall employ Best Available Control Technology (BACT) for controlling fugitive PE/PM10 from this emissions unit. BACT has been determined to be the following:
 - i. building enclosure for coal/coke handling operations;

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ii. high coal/coke moisture content (>5.0%)

2.b The Best Available Technology (BAT) requirements under OAC rule 3745-31-05(A)(3) do not apply to the PE and PM10 emissions from this air contaminant source since the calculated annual emission rates for PE and PM10 emissions are each less than ten tons per year taking into account the federally enforceable annual coal/coke throughput restriction of 78,840 tons and the requirement to apply BACT under OAC rule 3745-31-10 through 20.

2.c The emission limitations and control measure requirements specified by these rules are equivalent to or less stringent than the emissions limitations and control measure requirements established pursuant to OAC rule 3745-31-10 through 20.

II. Operational Restrictions

1. The maximum annual coal/coke throughput for this emissions unit shall not exceed 78,840 tons, based upon a rolling, 12-month summation of the monthly coal/coke throughput rates.

III. Monitoring and/or Recordkeeping Requirements

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

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

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

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that were taken to eliminate abnormal visible emissions.

2. The permittee shall collect and record the following information each month for this emissions unit:
 - a. the amount of coal/coke processed through this emissions unit, in tons
 - b. the rolling, 12-month coal/coke throughput, in tons
3. Monitoring, record keeping, and sampling requirements associated with demonstrating a high moisture content (>5.0%) in the coal/coke processed are contained in the Section A.III.6. of emissions unit P902.

IV. Reporting Requirements

1. The permittee shall submit semiannual written reports that (a) identify all days during which any visible emissions of fugitive dust were observed from the egress points (i.e., building windows, doors, roof monitors, etc.) serving the bowl mill and crushed coal/coke material handling operations and (b) describe any corrective actions taken to minimize or eliminate the abnormal visible emissions. These report shall be submitted to the Director (the appropriate Ohio EPA district office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month periods.
2. The permittee shall submit quarterly deviation reports, in accordance with the General Terms and Conditions of this permit, that identify all exceedances of the rolling, 12-month coal/coke throughput restriction of 78,840 tons.
3. Reporting requirements associated with the moisture content of the coal/coke processed are contained in Section A.IV.2 of emissions unit P902.

V. Testing Requirements

1. Compliance with the emissions limitations specified in Section A.I.1 of these terms and conditions shall be determined in accordance with the following methods:
 - a. Emission Limitations:
3.15 tons fugitive PE/rolling, 12-month period
0.95 tons fugitive PM-10/rolling, 12-month period

Applicable Compliance Method:

The annual PE/PM-10 limitations represent the summation of emissions from

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crushed coal/coke material transfer points (4) and were determined by multiplying an Ohio EPA RACM, Table 2.1.3-2, pg. 2-57 (September 1980) emission factor of 0.02 lb PE/ton and 0.006 lb PM-10/ton by a maximum annual throughput of 78,840 tons and dividing by 2000.

Provided compliance is shown with the rolling, 12-month coal/coke throughput restriction, compliance with the annual PE and PM10 limitations shall be assumed.

b. Emission Limitation:

Visible emissions of fugitive dust shall not exceed 20% opacity as a 3-minute average from the building enclosing the crushed coal/coke material handling operation.

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Applicable Compliance Method

If required, compliance with the visible emission limitation 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 existed on July 1, 2002, and the modifications listed in paragraphs (B)(3)(a) and (B)(3)(b) of OAC rule 3745-17-03.

c. Emission Limitation:

The maximum annual coal/coke throughput for this emissions unit shall not exceed 78,840 tons, based upon a rolling, 12-month summation of the monthly coal/coke throughput rates.

Applicable Compliance Method:

Compliance shall be demonstrated by the monitoring and record keeping requirements in section A.III.3 of this permit.

VI. Miscellaneous Requirements

None

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B. State Only Enforceable Section

I. 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.

Operations, Property, and/or Equipment - (F009) - #7 kiln coal/coke cleaning, crushing and crushed material handling, including bowl mill, day bins, fuel weigh belt, and kiln fuel belts #1 & 2

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
None	None

2. Additional Terms and Conditions

2.a None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

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Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. State and Federally Enforceable Section

I. 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.

Operations, Property, and/or Equipment - (P902) - 37.5 ton/hour Rotary Lime Kiln no.7 with preheater, cooler and associated baghouse PS18; processed stone handling; and product transfer/conveying and associated baghouse PS19

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
40 CFR Part 63, Subpart AAAAA	0.10 lb particulate emissions (PE) per ton stone feed from the kiln/cooler (kiln/cooler emissions are controlled by baghouse PS18) Visible fugitive particulate emissions shall not exceed 10% opacity, as a six-minute average from processed stone handling operations (See A.I.2.h). See A.I.2.k. See section A of Part II - FACILITY SPECIFIC TERMS AND CONDITIONS

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OAC rule 3745-31-10 through
 OAC rule 3745-31-20

Best Available Control Technology (BACT) Requirements (See A.I.2.a)

Kiln/Cooler Emissions (PS18 Baghouse Stack):

See A.I.2.a.i and A.I.2.a.ii.

0.10 lb particulate matter 10 microns or less in size (PM10)/ton of stone feed (See A.I.2.b)

37.80 tons PM10/rolling, 12-month period (See A.I.2.b)

1.7 lbs sulfur dioxide (SO₂)/ton lime and 279.23 tons SO₂/rolling, 12-month period

4.1 lbs nitrogen oxides (NO_x)/ton lime and 673.43 tons NO_x/rolling, 12-month period

2.0 lbs carbon monoxide (CO)/ton lime and 328.50 tons CO/rolling, 12-month period

Visible particulate emissions shall not exceed 15% opacity, as six-minute average from PS18 baghouse stack.

Product Conveying Emissions (PS19 Baghouse Stack):

See A.I.2.a.iii

0.007 grains PM10 /dry standard cubic foot (dscf)

1.23 tons PM10/rolling, 12-month period

See A.I.2.b

Visible particulate emissions shall not exceed 0% opacity as six-minute average from PS19 product conveyor baghouse stack.

Emissions from Natural Gas Combustion (See A.I.2.i)

0.007 lb PM10/mmBTU (See A.I.2.b and A.I.2.j)

0.14 lb NO_x/mmBTU (See A.I.2.j)

0.08 lb CO/mmBTU (See A.I.2.j)

Fugitive Emissions

1.01 tons fugitive PF₅/rolling, 12-month period

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	1.03 tons fugitive PM10/rolling, 12-month period Visible fugitive particulate emissions shall not exceed 20% opacity, as a 3-minute average from product material handling operations.
OAC rule 3745-31-05 (A)(3)	10.80 lbs hydrogen chloride (HCl)/hour and 47.30 tons HCl/year (See A.I.2.j) 9.0 lbs organic compounds (OC)/hour and 39.42 tons OC/year (See A.I.2.j) 0.005 lb OC/mmBTU from natural gas combustion (See A.I.2.i and A.I.2.j) See A.I.2.c.
40 CFR, Part 60, Subpart HH	See A.I.2.d.
OAC rule 3745-17-07 (A)	See A.I.2.e.
OAC rule 3745-17-11(B)	See A.I.2.e.
OAC rule 3745-17-07 (B)(1)	See A.I.2.e.
OAC rule 3745-17-08 (B)	See A.I.2.e.
OAC rule 3745-21-08 (B)	See A.I.2.f.
OAC rule 3745-18-06 (E)(2)	See A.I.2.e.

2. Additional Terms and Conditions

- 2.a** The permittee shall employ Best Available Control Technology (BACT) for controlling PE/PM10 from this emissions unit. BACT has been determined to be the following:
- i. compliance with 40 CFR Part 63, Subpart AAAAA;
 - ii. use of a baghouse (PS18) for control of the kiln/cooler emissions. The PS18 baghouse control system shall achieve a 100% capture efficiency and an overall emission rate of 0.1 lb PM10/ton stone feed;
 - iii. use of a baghouse (PS19) for control of emissions from product conveying operations (includes emissions where product exits the cooler). The PS19 baghouse control system shall achieve a capture efficiency of 99.5% and a maximum outlet concentration of 0.007 grain PM10/dscf.

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Based on the BACT analysis, it has been determined that no control technologies for CO, NO_x, and SO₂ are cost effective.

- 2.b** All emissions of particulate matter are PM₁₀.
- 2.c** The requirements of this rule also include compliance with OAC rule 3745-31-10 through 20, 40 CFR, Part 60, Subpart HH and 40 CFR Part 63, Subpart AAAAA.
- 2.d** The particulate limitation established by this rule is less stringent than the limitation established pursuant to 40 CFR Part 63, Subpart AAAAA and the opacity limitation is equivalent to the opacity limitation established pursuant to OAC rules 3745-31-10 through 20.
- 2.e** The emissions limitations and control measure requirements specified by these rules are equivalent to or less stringent than the emissions limitations and control measure requirements established pursuant to OAC rule 3745-31-10 through 20.
- 2.f** The permittee has satisfied the "latest available control techniques and operating practices" required pursuant to OAC rule 3745-21-07(B) and the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by committing to comply with the best available control technology requirements established pursuant to OAC rule 3745-31-10 through 20 in this Permit to Install.

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.g** Within 180 days of the effective date of this permit, the permittee shall develop and maintain a written quality assurance/quality control plan for the continuous opacity monitoring system, designed to ensure continuous valid and representative readings of opacity and compliance with 40 CFR Part 60. The plan shall include, at a minimum, procedures for conducting and recording daily automatic zero/span checks, provisions for conducting a quarterly audit of the continuous opacity monitoring system, and a description of preventive

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maintenance activities. The plan shall describe step by step procedures for ensuring that Performance Specification 1 is maintained on a continuous basis. The quality assurance/quality control plan and a logbook dedicated to the continuous opacity monitoring system must be kept on site and available for inspection during regular office hours.

[40 CFR 60.13] and [40 CFR Part 60, Appendix F]

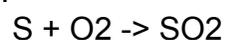
- 2.h** Processed stone handling operations include the #7 kiln stone bin with feed chutes into the preheater.
- 2.i** Natural gas is a backup fuel and emissions from natural gas combustion are associated with the startup of the kiln.
- 2.j** The short term emission limitations for HCl and OC represent the potentials to emit for this emissions unit. Therefore, no monitoring, record keeping, or reporting requirements are necessary to ensure compliance with these emission limitations.
- 2.k** The permittee shall comply with the applicable restrictions required under 40 CFR Part 63, Subpart AAAAA, including the following sections:

63.7100, 63.7114 and 63.7130

II. Operational Restrictions

1. The permittee shall only burn coal, petroleum coke and/or natural gas in this emissions unit.
2. The maximum annual throughput for limestone material handling operations for this emissions unit shall not exceed 755,550 tons, based upon a rolling, 12-month summation of the monthly limestone material throughput rates.
3. The maximum annual throughput for the product transfer and conveying operations for this emissions unit shall not exceed 328,500 tons, based upon a rolling, 12-month summation of the monthly product transfer and conveying throughput rates.
4. The quality of fuel (coal and/or petroleum coke) burned in this emissions unit shall meet, on an as-received basis, a sulfur content (in percent, by weight) that is no greater than the following calculated value:

Given:



$$63.79 \text{ lbs } SO_2/\text{hr} = (18,000 \text{ lbs fuel/hr}) \times (S/100) \times (64/32) \times (1 - K/100)$$

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where,

63.79 lbs SO₂/hr = Emission limitation

18,000 lbs fuel/hr = maximum fuel use

S = sulfur content in fuel, in percent by weight, as received

K = % control efficiency for natural dry scrubbing (See A.V.4)

(64/32) = molecular weight of SO₂ is 64 lb/lb-mole and sulfur is 32 lb/lb-mole

Solving for S

$$S = [(63.79 \text{ lbs SO}_2/\text{hr}) \div \{(18,000 \text{ lbs fuel/hr}) \times (1 - K/100) \times (64/32)\}] \times 100$$

$$= 17.72/(100-K)$$

5. The permittee shall comply with the applicable restrictions required under 40 CFR Part 63, Subpart AAAAA, including the following sections:

63.7113

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III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall comply with the applicable monitoring and record keeping requirements under 40 CFR Part 63, Subpart AAAAA, including the following sections:

63.7113, 63.7120, 63.7121, 63.7132 and 63.7133

For processed stone handling operations associated with this emissions unit, the permittee shall demonstrate compliance with the 10% opacity limitation as specified in item 1 in Table 6 of 40 CFR Part 63, Subpart AAAAA.

2. The permittee shall perform checks at least 5 days per week, when the emissions unit is in operation and when the weather conditions allow, for any visible emissions of fugitive dust from the egress points (i.e. building windows, doors, roof monitors, etc.) serving the product material handling operations. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the location and color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any visible emissions incident; and
 - e. any corrective actions taken to minimize or eliminate the visible emissions.

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

3. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from PS19 product conveyor baghouse stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible

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emissions are observed, the permittee shall also note the following in the operations log:

- a. the color of the emissions;
 - b. the total duration of any visible emission incident; and
 - c. any corrective actions taken to eliminate the visible emissions.
4. Prior to the installation of the continuous opacity monitoring system, the permittee shall submit information detailing the proposed location of the sampling site in accordance with the siting requirements in 40 CFR Part 60, Appendix B, Performance Specification 1. The Ohio EPA, Central Office shall approve the proposed sampling site and certify that the continuous opacity monitoring system meets the requirements of Performance Specification 1. Once received, the letter/document of certification shall be maintained on-site and shall be made available to the director (the appropriate Ohio EPA District Office or local air agency) upon request.

Each continuous monitoring system consists of all the equipment used to acquire and record data in units of all applicable standard(s), and includes the sample extraction and transport hardware, sample conditioning hardware, analyzers, and data processing hardware and software.

[40 CFR 60.13] and [40 CFR Part 60, Appendix B]

5. Within 60 days of the effective date of this permit or modification to the system, the permittee shall install, operate, and maintain a continuous opacity monitoring system to continuously monitor and record the opacity of the particulate emissions from this emissions unit. The continuous monitoring and recording equipment shall comply with the requirements specified in 40 CFR Part 60.

The permittee shall maintain records of data obtained by the continuous opacity monitoring system including, but not limited to:

- a. percent opacity on an instantaneous (one-minute) and 6-minute block average basis;
- b. results of daily zero/span calibration checks and the magnitude of manual calibration adjustments;
- c. hours of operation of the emissions unit, continuous opacity monitoring system, and control equipment;
- d. the date, time, and hours of operation of the emissions unit without the control equipment and/or the continuous opacity monitoring system;
- e. the date, time, and hours of operation of the emissions unit during any malfunction of the control equipment and/or the continuous opacity monitoring system; as well as,
- f. the reason (if known) and the corrective actions taken (if any) for each such

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event in (d) and (e).

[40 CFR 60.13]; [40 CFR 61.14]; [40 CFR 63.8 and 63.10]; and [40 CFR Part 60, Appendices B & F]

6. The permittee shall collect or require its supplier(s) to collect a representative grab sample of coal and/or petroleum coke from each shipment. A shipment may be comprised of multiple loads from the same supplier's batch, and the quality for the coal and/or petroleum coke for those loads may be represented by a single batch analysis from the supplier. In lieu of performing on-site grab sampling, representative fuel analysis performed by fuel supplier(s) is acceptable.

The representative sampling procedures for the collection of coal and/or petroleum coke shall be performed in accordance with the most recently approved ASTM methods.

The representative sample from each shipment of coal and/or petroleum coke shall be analyzed for sulfur content (weight percent). The procedures for the analytical methods shall be performed in accordance with the most recently approved ASTM methods. Alternative, equivalent methods may be used upon approval from the Ohio EPA, Northwest District Office.

7. The permittee shall maintain monthly records of the following:
 - a. total quantity of coal and/or petroleum coke received;
 - b. the results of the analyses for the sulfur content [OAC 3745-18-04(D)]; and
 - c. the results of the analyses for the moisture content
8. The permittee shall collect and record the following information each month for this emissions unit:
 - a. the amount throughput for limestone material handling operations for this emissions unit, in tons
 - b. the rolling, 12-month throughput for limestone material handling operations for this emissions unit, in tons
 - c. the amount throughput for product transfer and conveying operations for this emissions unit, in tons
 - d. the rolling, 12-month throughput for product transfer and conveying operations for this emissions unit, in tons

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IV. Reporting Requirements

1. The permittee shall comply with the following quarterly reporting requirements for the emissions unit and its continuous opacity monitoring system:
 - a. Pursuant to the monitoring, record keeping, and reporting requirements for continuous monitoring systems contained in 40 CFR Parts 60.7 and 60.13(h) and the requirements established in this permit, the permittee shall submit reports within 30 days following the end of each calendar quarter to the appropriate Ohio EPA District Office or local air agency, documenting all instances of opacity values in excess of any limitation specified in this permit, 40 CFR Part 60, OAC rule 3745-17-07, and any other applicable rules or regulations. The report shall document the date, commencement and completion times, duration, and magnitude (percent opacity) of each 6-minute block average exceeding the applicable opacity limitation(s), as well as, the reason (if known) and the corrective actions taken (if any) for each exceedance. If there are no exceedances during the calendar quarter, the permittee shall submit a statement to that effect.
 - b. These quarterly reports shall be submitted by January 30, April 30, July 30, and October 30 of each year and shall include the following:
 - i. the facility name and address;
 - ii. the manufacturer and model number of the continuous opacity monitor;
 - iii. the location of the continuous opacity monitor;
 - iv. the exceedance report as detailed in (a) above;
 - v. the total operating time (hours) of the emissions unit;
 - vi. the total operating time of the continuous opacity monitoring system while the emissions unit was in operation;
 - vii. the date, time, and duration of any/each malfunction* of the continuous opacity monitoring system, emissions unit, and/or control equipment;
 - viii. the date, time, and duration of any downtime* of the continuous opacity monitoring system and/or control equipment while the emissions unit was in operation; and
 - ix. the reason (if known) and the corrective actions taken (if any) for each event in (b)(vii) and (viii).

Each report shall address the operations conducted and data obtained during the previous calendar quarter.

* each downtime and malfunction event shall be reported regardless if there is

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an exceedance of the opacity limit

[40 CFR 60.7] and [40 CFR 63.9 and 63.10]

2. The permittee shall submit quarterly reports on the quality and quantity of coal and/or petroleum coke received for burning in this emissions unit. These reports shall include the following information for the emissions unit for each calendar month during the calendar quarter:
 - a. the total quantity of coal and/or petroleum coke received (tons);
 - b. the average sulfur content (percent) of the coal and/or petroleum coke received.
 - c. the results of the analyses for the moisture content

3. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than coal, petroleum coke and/or natural gas was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.
 [OAC 3745-18-04(D)]

4. The permittee shall submit deviation (excursion) reports that identify each day when the sulfur content (in percent, by weight) for the fuel (coal and/or petroleum coke) burned in this emissions unit was greater than the value calculated in section A.II 4 of this permit.

5. The permittee shall submit semiannual reports and such other notifications and reports to the appropriate Ohio EPA District Office or local air agency as are required pursuant to 40 CFR Part 63, Subpart AAAAA, per the following sections:
 63.7131

6. The permittee shall submit semiannual reports that (a) identify all days during which any visible emissions of fugitive dust were observed from the egress points (i.e., building windows, doors, roof monitors, etc.) serving the product material handling operations and (b) describe any corrective actions taken to minimize or eliminate the visible emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA district office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month periods.

7. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from PS19 product conveyor baghouse stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January

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31 and July 31 of each year and shall cover the previous six-month periods.

8. The permittee shall submit deviation reports, in accordance with the General Terms and Conditions of this permit, that identify the following:
 - a. all exceedances of the rolling, 12-month throughput restriction of 755,550 tons for limestone material handling operations.
 - b. all exceedances of the rolling, 12-month throughput restriction of 328,500 tons for product transfer and conveying operations.

V. Testing Requirements

1. The permittee shall conduct, or have conducted, emission testing for emissions unit P902 in accordance with the following requirements:
 - a. The permittee shall conduct or have conducted, emissions testing pursuant to 40 CFR Part 63, Subpart AAAAA, per the following sections:

63.7110, 63.7111 and 63.7112
 - b. The emission testing shall be conducted within 60 days after achieving representative operating conditions at which the emissions unit will be operated, but not later 180 days after startup of the emissions unit.
 - c. The emission testing shall be conducted on the kiln/cooler emissions (PS18 Baghouse Stack) to demonstrate compliance with the allowable mass emissions rates for NO_x, SO₂, CO, OC, PM, and PM₁₀.
 - d. The following methods shall be employed to demonstrate compliance with the mass emissions rates from the PS18 Baghouse Stack: for NO_x, Methods 1 through 4 and 7 of 40 CFR, Part 60, Appendix A; for CO, Methods 1 through 4 and 10 of 40 CFR, Part 60, Appendix A; for SO₂, Methods 1 through 4 and 6 of 40 CFR, Part 60, Appendix A; for OC, Methods 1 through 4 and Method 18, 25 or 25A of 40 CFR, Part 60, Appendix A; for PM, Methods 1 through 5 of 40 CFR, Part 60, Appendix A; and for PM₁₀, Methods 201/201A and 202 of 40 CFR, Part 51, Appendix M. Alternative U.S. EPA-approved test methods may be used with prior approval from the Ohio EPA.
 - e. Process Stone Handling Operations:
Compliance with the applicable visible emissions limitation shall be determined

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in accordance with 40 CFR Part 60, Appendix A, Method 9 and each of the consecutive 6-minute opacity averages must not exceed the applicable opacity limit. Periodic compliance with the opacity limit shall be demonstrated as follows. The permittee shall conduct a monthly 1-minute visible emissions check of each emissions unit in the affected source. If no visible emissions are observed in six consecutive monthly tests for any emissions unit, the permittee may decrease the frequency of testing from monthly to semiannually for that emissions unit. If visible emissions are observed during any semiannual test, the permittee must resume testing of that emissions unit on a monthly basis and maintain that schedule until no visible emissions are observed in six consecutive monthly tests. If no visible emissions are observed during the semiannual test for any emissions unit, the testing frequency may decrease from semiannually to annually for that emissions unit. If visible emissions are observed during any annual test, visible emissions testing must resume for that emissions unit on a monthly basis and maintain that schedule until no visible emissions are observed in six consecutive monthly tests.

If visible emissions are observed during any visible emissions check, the permittee must conduct a 6-minute test of opacity in accordance with Method 9 of Appendix A to part 60 of this chapter. The Method 9 test is required to begin within 1 hour of any observation of visible emissions, and the 6-minute opacity reading must not exceed the applicable opacity limit.

- f. The tests shall be conducted while the emissions unit is operating at representative operating conditions, unless otherwise specified or approved by the Ohio EPA, NWDO.
- g. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA District Office's or local air agency's refusal to accept the results of the emission test(s).

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

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the

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appropriate Ohio EPA District Office or local air agency within 30 days following completion of the test(s). The permittee may request additional time for the submittal, where warranted, with prior approval from the appropriate Ohio EPA District Office or local air agency.

2. Within 60 days of the effective date of this permit, the permittee shall conduct certification tests on the continuous opacity monitoring system equipment pursuant to 40 CFR Part 60, Appendix B, Performance Specification 1 and ORC section 3704.03(I).

Personnel from the Ohio EPA Central Office and the appropriate Ohio EPA District Office or local air agency shall be notified 30 days prior to initiation of the applicable tests and shall be permitted to examine equipment and witness the certification tests. Two copies of the test results shall be submitted to Ohio EPA, one copy to the appropriate Ohio EPA District Office or local air agency and one copy to Ohio EPA Central Office, and pursuant to OAC rule 3745-15-04, within 30 days after the test is completed.

Certification of the continuous opacity monitoring system shall be granted upon determination by the Ohio EPA, Central Office that the system meets the requirements of 40 CFR Part 60, Appendix B, Performance Specification 1; ORC section 3704.03(I); and ASTM D 6216-98.

[40 CFR 60.13] and [40 CFR Part 60, Appendices B & F]

3. Ongoing compliance with the opacity limitation contained in this permit, 40 CFR Part 60, and any other applicable standard(s) shall be demonstrated through the data collected as required in the Monitoring and Record keeping Section of this permit; and through demonstration of compliance with the quality assurance/quality control plan, which shall meet the testing and recertification requirements of 40 CFR Part 60.

[40 CFR 60.13] and [40 CFR Part 60, Appendices B & F]

4. The percent control efficiency for natural dry scrubbing shall be determined by calculating the percent reduction in SO₂ emissions between the uncontrolled mass rate of SO₂ and the outlet of the baghouse system controlling the kiln. The uncontrolled mass rate of SO₂ shall be determined by the following equation:

$$ER = (U \times 2000) \times S \times 2$$

where,

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ER = the emission rate of SO₂ in pounds per hour

U = the amount of coal and/or petroleum coke burned, in tons, during a one hour test run of the emissions test

S = the decimal fraction of sulfur in the coal and/or petroleum coke burned during a one hour test run of the emission test

The SO₂ emissions from the outlet of the baghouse system controlling the kiln shall be determined in accordance with Methods 1 through 4 and 6 of 40 CFR, Part 60, Appendix A.

The percent control efficiency for natural dry scrubbing (K) shall be determined by dividing the average of the results obtained from the three required one hour emission test runs for SO₂ emissions by the uncontrolled mass rate of SO₂ calculated above (ER) and multiplying by 100.

5. Compliance with the emission limitations in Section A.I.1. of the terms and conditions of this permit shall be determined in accordance with the following methods:
 - a. Emission Limitation
 0.10 lb particulate matter (PM)/ton stone feed

Applicable Compliance Method
 Compliance with the 0.10 lb PM/ton stone feed limitation shall be determined in accordance with the test methods and procedures specified in condition A.V.1.
 - b. Emission Limitation
 0.10 lb particulate matter 10 microns or less in size (PM₁₀)/ton stone feed

Applicable Compliance Method
 Compliance with the 0.10 lb PM₁₀/ton stone feed limitation shall be determined in accordance with the test methods and procedures specified in condition A.V.1.
 - c. Emission Limitation
 Visible fugitive emissions shall not exceed 10% opacity, as a six-minute average from processed stone handling operations.

Applicable Compliance Method
 Compliance with the opacity limitation shall be determined in accordance with the test methods and procedures specified in condition A.V.1.

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- d. Emission Limitation
37.80 tons PM10/rolling, 12-month period

Applicable Compliance Method

The annual PM10 limitation was established by multiplying a maximum limestone feed rate of 86.25 tons/hour , the short term emission limit of 0.10 lb PM10/ton stone feed, a maximum operating schedule of 8760 hours/year and dividing by 2000 lbs/ton.

Therefore, provided compliance is shown with the short term emission limitation, compliance with the annual PM10 limitation will be assumed.

- e. Emissions Limitation
1.7 lbs SO₂/ton lime
4.1 lbs NO_x/ton lime
2.0 lbs CO/ton lime

Applicable Compliance Method

Compliance with the lbs/ton lime limitations shall be determined in accordance with the test methods and procedures as specified in A.V.1.

- f. Emission Limitation
10.80 lbs HCl/hour; 47.30 tons HCl/year

Applicable Compliance Method

The hourly allowable HCl emission limitation above represents the potential to emit for this emissions unit and was established by multiplying an AP-42, Chapter 1.1-5 (9/98) emission factor of 1.2 lbs HCl/ton coal by a maximum hourly usage rate of 9.0 tons. If required, the permittee shall demonstrate compliance with the hourly allowable HCl emission limitation above in accordance with 40 CFR Part 60 Appendix A, Methods 1 through 4 and 26.

The annual limitation was established by multiplying the hourly limitation by a maximum operating schedule of 8760 hours and dividing by 2000 lbs/ton. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

- g. Emission Limitation
9.0 lbs OC/hr; 39.42 tons OC/year

Applicable Compliance Method:

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Compliance with the hourly OC limitation shall be determined in accordance with the test methods and procedures specified in condition A.V.1

The annual limitation was established by multiplying the hourly limitation by a maximum operating schedule of 8760 hours and dividing by 2000 lbs/ton. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

h. Emission Limitation

279.23 tons SO₂/rolling, 12-month period
 673.43 tons NO_x/rolling, 12-month period
 328.50 tons CO/rolling, 12-month period

Applicable Compliance Method:

The annual emission limitations were established by multiplying a representative operating condition of 37.50 tons lime/hour by the applicable short term emission limits of 1.7 lbs SO₂/ton lime; 4.1 lbs NO_x/ton lime and 2.0 lbs CO/ton lime and dividing by 2000 lbs/ton. Therefore, provided compliance is shown with the short term limitations, compliance will also be shown with the annual limitations.

i. Emission Limitation

Visible particulate emissions shall not exceed 15% opacity as a six-minute average from the kiln baghouse stack.

Applicable Compliance Method:

Compliance with the opacity limitation shall be determined in accordance with the monitoring and recordkeeping requirements as specified in condition A.III.5.

j. Emission Limitation

Visible particulate emissions shall not exceed 15% opacity as a six-minute average from the cooler belt discharge baghouse stack.

Applicable Compliance Method:

Compliance with the opacity limitation shall be determined in accordance with the monitoring and recordkeeping requirements as specified in condition A.III.5.

k. Emissions Limitation

0.007 lb PE/mmBTU

Applicable Compliance Method:

The lb/mmBTU allowable emission limitation above represents the potential to emit for this emissions unit and was established by multiplying the maximum fuel usage rate of 200,000 ft³/hr and an emission factor of 7.6 lbs/10⁶ ft³ [from AP-42, Section 3.4 (10/96)]. If required, the permittee shall demonstrate compliance with the allowable lb/mmBTU emission limitation above in accordance with 40

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CFR Part 60 Appendix A, Methods 1 through 5.

- I. Emissions limitation
0.14 lb NO_x/mmBTU

Applicable Compliance Method:

The lb/mmBTU allowable emission limitation above represents the potential to emit for this emissions unit and was established by multiplying the maximum fuel usage rate of 200,000 ft³/hr and an emission factor of 140 lbs/10⁶ ft³ [from AP-42, Section 3.4 (10/96)]. If required, the permittee shall demonstrate compliance with the allowable lb/mmBTU emission limitation above in accordance with 40 CFR Part 60 Appendix A, Methods 1 through 4 and 7.

- m. Emission Limitation
0.08 lb CO/mmBTU

Applicable Compliance Method:

The lb/mmBTU allowable emission limitation above represents the potential to emit for this emissions unit and was established by multiplying the maximum fuel usage rate of 200,000 ft³/hr and an emission factor of 84 lbs/10⁶ ft³ [from AP-42, Section 3.4 (10/96)]. If required, the permittee shall demonstrate compliance with the allowable lb/mmBTU emission limitation above in accordance with 40 CFR Part 60 Appendix A, Methods 1 through 4 and 10.

- n. Emission Limitation
0.005 lb OC/mmBTU

Applicable Compliance Method:

The lb/mmBTU allowable emission limitation above represents the potential to emit for this emissions unit and was established by multiplying the maximum fuel usage rate of 200,000 ft³/hr and an emission factor of 5.5 lbs/10⁶ ft³ [from AP-42, Section 3.4 (10/96)]. If required, the permittee shall demonstrate compliance with the allowable lb/mmBTU emission limitation above in accordance with 40 CFR Part 60 Appendix A, Methods 1 through 4 and 18, 25 or 25A, as appropriate.

- o. Emission Limitation
0.007 grains PM₁₀/dscf, 1.23 tons PM₁₀/year from baghouse stack PS19

Applicable Compliance Method:

The 0.007 grains PM₁₀/dscf emission limitation was established by the

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manufacturer's guarantee. If required, emission testing shall be conducted in accordance with Methods 201/201A and 202 of 40 CFR Part 51, Appendix M. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA, Northwest District Office.

The annual emission limitation was established by the multiplying the maximum outlet concentration of 0.007 gr PM10/dscf, a maximum volumetric flow rate of 4600 acfm, a conversion factor of 60 minutes/hr, a conversion factor of 1.0 lb/7000 grains, a maximum operating schedule of 8760 hrs/yr, and a conversion factor of 2000 lbs/ton. Therefore provided compliance is shown with the gr/dscf limitation, compliance with the annual limitation will be assumed.

- p. Emissions Limitation
 1.91 tons PE/rolling, 12-month period, 1.03 PM10/rolling, 12-month period (fugitive)

Applicable Compliance Method:

Fugitive emissions were established by combining the emissions from processed stone handling and product transfer and conveying.

The fugitive PE/PM10 emissions from processed stone handling were established by multiplying emission factors of 0.00014 lb PE/ton and 0.000046 lb PM10/ton from AP-42, Chapter 11.19.2-2 (8/04) by a maximum annual throughput of 755,550 tons per rolling, 12-month period and multiplying by a conversion factor of ton/2000 lbs.

The fugitive emissions PE/PM10 emissions from product transfer and conveying were established by multiplying emission factors of 2.2 lbs PE/ton and 1.21 lbs PM10/ton from AP-42, Chapter 11.17-4 (2/98) by a maximum annual throughput of 328,500 tons per rolling, 12-month period, applying a 99.5% control efficiency and multiplying by a conversion factor of ton/2000 lbs. Provided compliance is shown with the rolling, 12-month throughput restrictions, compliance with the annual PE and PM10 limitations will be assumed.

- q. Emission Limitation
 Visible particulate emissions shall not exceed 0% opacity, as six-minute average from PS19 product conveyor baghouse stack.

Applicable Compliance Method

Compliance shall be determined through visible emission observations performed in accordance with 40 CFR Part 60 ("Standards of Performance for New Stationary Sources"), Appendix A, U.S. EPA Reference Method 9.

- r. Emission Limitation

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Visible fugitive particulate emissions shall not exceed 20% opacity as a 3-minute average from product material handling operations

Applicable Compliance Method

If required, compliance with the visible emission limitation 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 existed on July 1, 2002, and the modifications listed in paragraphs (B)(3)(a) and (B)(3)(b) of OAC rule 3745-17-03.

s. Emission Limitation

The maximum annual throughput for limestone material handling operations for this emissions unit shall not exceed 755,550 tons, based upon a rolling, 12-month summation of the monthly limestone material throughput rates.

Applicable Compliance Method

Compliance shall be demonstrated by the monitoring and record keeping in A.III.8.

t. Emission Limitation

The maximum annual throughput for the product transfer and conveying operations for this emissions unit shall not exceed 328,500 tons, based upon a rolling, 12-month summation of the monthly product transfer and conveying throughput rates.

Applicable Compliance Method

Compliance shall be demonstrated by the monitoring and record keeping in A.III.8.

VI. Miscellaneous Requirements

None

Emissions Unit ID: P902

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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.

Operations, Property, and/or Equipment - (P902) - 37.5 ton/hour Rotary Lime Kiln no.7 with preheater, cooler and associated baghouse PS18; processed stone handling; and product transfer/conveying and associated baghouse PS19

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
OAC rule 3745-114-01 ORC 3704.03(F)	See B.III.1 through B.III.3

2. Additional Terms and Conditions

- 2.a None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

1. The permit to install for emissions unit P902 was evaluated based on the actual materials and the design parameters of the emissions unit's(s) exhaust system, as specified by the permittee in the permit application. The "Toxic Air Contaminant Statute", ORC 3704.03(F), was applied to this/these emissions unit(s) for each toxic air contaminant listed in OAC rule 3745-114-01, using data from the permit application; and modeling was performed for each toxic air contaminant(s) emitted at over one ton per year using an air dispersion model such as SCREEN 3.0, AERMOD, or ISCST3, or other Ohio EPA approved model. The predicted 1-hour maximum ground-level concentration result(s) from the approved air dispersion model, was compared to the Maximum Acceptable Ground-Level Concentration (MAGLC), calculated as described in the Ohio EPA guidance document entitled "Review of New Sources of Air Toxic Emissions, Option A", as follows:
 - a. the exposure limit, expressed as a time-weighted average concentration for a conventional 8-hour workday and a 40-hour workweek, for each toxic compound(s) emitted from the emissions unit(s), (as determined from the raw materials processed and/or coatings or other materials applied) has been

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documented from one of the following sources and in the following order of preference (TLV was and shall be used, if the chemical is listed):

- i. threshold limit value (TLV) from the American Conference of Governmental Industrial Hygienists' (ACGIH) "Threshold Limit Values for Chemical Substances and Physical Agents Biological Exposure Indices"; or
 - ii. STEL (short term exposure limit) or the ceiling value from the American Conference of Governmental Industrial Hygienists' (ACGIH) "Threshold Limit Values for Chemical Substances and Physical Agents Biological Exposure Indices"; the STEL or ceiling value is multiplied by 0.737 to convert the 15-minute exposure limit to an equivalent 8-hour TLV.
- b. The TLV is divided by ten to adjust the standard from the working population to the general public (TLV/10).
 - c. This standard is/was then adjusted to account for the duration of the exposure or the operating hours of the emissions unit(s), i.e., "X" hours per day and "Y" days per week, from that of 8 hours per day and 5 days per week. The resulting calculation was (and shall be) used to determine the Maximum Acceptable Ground-Level Concentration (MAGLC):

$$\text{TLV}/10 \times 8/X \times 5/Y = 4 \text{ TLV}/XY = \text{MAGLC}$$

- d. The following summarizes the results of dispersion modeling for the significant toxic contaminants (emitted at 1 or more tons/year) or "worst case" toxic contaminant(s):

Pollutant: Hydrogen chloride

TLV (mg/m³): 5.50

Maximum Hourly Emission Rate (lbs/hr): 10.80

Predicted 1-Hour Maximum Ground-Level Concentration (ug/m³): 6.69

MAGLC (ug/m³): 130.95

Pollutant: Hydrogen fluoride

TLV (mg/m³): 1.81

Maximum Hourly Emission Rate (lbs/hr): 1.35

Predicted 1-Hour Maximum Ground-Level Concentration (ug/m³): 0.843

MAGLC (ug/m³): 43.1

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The permittee, has demonstrated that emissions of Hydrogen chloride and Hydrogen fluoride, from emissions unit P902, is calculated to be less than eighty per cent of the maximum acceptable ground level concentration (MAGLC); any new raw material or processing agent shall not be applied without evaluating each component toxic air contaminant in accordance with the "Toxic Air Contaminant Statute", ORC 3704.03(F).

[ORC 3704.03(F)(3)(c) and F(4)], [OAC rule 3745-114-01], Option A, Engineering Guide #70

2. Prior to making any physical changes to or changes in the method of operation of the emissions unit(s), that could impact the parameters or values that were used in the predicted 1-hour maximum ground-level concentration", the permittee shall re-model the change(s) to demonstrate that the MAGLC has not been exceeded. Changes that can affect the parameters/values used in determining the 1-hour maximum ground-level concentration include, but are not limited to, the following:
 - a. changes in the composition of the materials used or the use of new materials, that would result in the emission of a new toxic air contaminant with a lower Threshold Limit Value (TLV) than the lowest TLV previously modeled;
 - b. changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any toxic air contaminant listed in OAC rule 3745-114-01, that was modeled from the initial (or last) application; and
 - c. physical changes to the emissions unit(s) or its/their exhaust parameters (e.g., increased/ decreased exhaust flow, changes in stack height, changes in stack diameter, etc.).

If the permittee determines that the "Toxic Air Contaminant Statute" will be satisfied for the above changes, the Ohio EPA will not consider the change(s) to be a "modification" under OAC rule 3745-31-01 solely due to a non-restrictive change to a parameter or process operation, where compliance with the "Toxic Air Contaminant Statute", ORC 3704.03(F), has been documented. If the change(s) meet(s) the definition of a "modification" or if a new toxic is emitted, or the modeled toxic(s) is/are expected to exceed the previous modeled level(s), then the permittee shall apply for and obtain a final permit-to-install prior to the change. The Director may consider any significant departure from the operations of the emissions unit, described in the permit-to-install application, as a modification that results in greater emissions than the emissions rate modeled to determine the ground level concentration; and may require the permittee to submit a permit-to-install application for the increased emissions.

[ORC 3704.03(F)(3)(c) and F(4)], [OAC rule 3745-114-01], Option A, Engineering Guide #70

3. The permittee shall collect, record, and retain the following information for each toxic

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evaluation conducted to determine compliance with the "Toxic Air Contaminant Statute", ORC 3704.03(F):

- a. a description of the parameters/values used in each compliance demonstration and the parameters or values changed for any re-evaluation of the toxic(s) modeled (the composition of materials, new toxic contaminants emitted, change in stack/exhaust parameters, etc.);
- b. the Maximum Acceptable Ground-Level Concentration (MAGLC) for each significant toxic contaminant or worst-case contaminant, calculated in accordance with the "Toxic Air Contaminant Statute", ORC 3704.03(F);
- c. a copy of the computer model run(s), that established the predicted 1-hour maximum ground-level concentration that demonstrated the emissions unit(s) to be in compliance with the "Toxic Air Contaminant Statute", ORC 3704.03(F), initially and for each change that requires re-evaluation of the toxic air contaminant emissions; and
- d. the documentation of the initial evaluation of compliance with the "Toxic Air Contaminant Statute", ORC 3704.03(F), and documentation of any determination that was conducted to re-evaluate compliance due to a change made to the emissions unit(s) or the materials applied.

[ORC 3704.03(F)(3)(c) and F(4)], [OAC rule 3745-114-01], Option A, Engineering Guide #70

4. The permittee shall maintain a record of any change made to a parameter or value used in the dispersion model, used to demonstrate compliance with the "Toxic Air Contaminant Statute", ORC 3704.03(F), through the predicted 1-hour maximum ground-level concentration. The record shall include the date and reason(s) for the change and if the change would increase the ground-level concentration.

[ORC 3704.03(F)(3)(c) and F(4)], [OAC rule 3745-114-01], Option A, Engineering Guide #70

IV. Reporting Requirements

1. The permittee shall submit annual reports to the appropriate Ohio EPA District Office or local air agency, documenting any changes made to a parameter or value used in the dispersion model, that was used to demonstrate compliance with the "Toxic Air

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Contaminant Statute", ORC 3704.03(F), through the predicted 1-hour maximum ground-level concentration. If no changes to the emissions unit(s) or the exhaust stack have been made, then the report shall include a statement to this effect. This report shall be postmarked or delivered no later than January 31 following the end of each calendar year.

[ORC 3704.03(F)(3)(c) and F(4)], [OAC rule 3745-114-01], Option A, Engineering Guide #70

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

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Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

- 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.

Operations, Property, and/or Equipment - (P903) - North dust load-out system including lime product material transfer, storage and loadout with two baghouses.(previously permitted as F006) (modification to change emissions unit I.D and increase annual throughput)

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
OAC rule 3745-31-10 through OAC rule 3745-31-20	See A.I.2.a. <u>Baghouse Stack Emissions</u> (PS03 & PS15 Baghouse Stacks): 8.10 tons particulate matter 10 microns or less in size (PM10)/rolling, 12-month period 0.01 grain PM10/dry standard cubic foot (dscf) See A.I.2.b. Visible particulate emissions shall not exceed 0% opacity, as a six-minute average from any baghouse stack <u>Fugitive Emissions</u> : 0.39 ton fugitive particulate emissions (PE)/rolling, 12-month period; 0.21 ton fugitive PM10/rolling, 12-month period Visible fugitive PE shall not exceed 20% opacity, as a three-minute average, from the loadout spouts.
OAC rule 3745-31-05(A)(3)(b)	See A.I.2.c.
OAC rule 3745-17-07 (B)(1)	See A.I.2.d.
OAC rule 3745-17-07 (A)	See A.I.2.d.
OAC rule 3745-17-08 (B)	See A.I.2.d.

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OAC rule 3745-17-11 (B)	See A.I.2.d.
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2. Additional Terms and Conditions

- 2.a** The permittee shall employ Best Available Control Technology (BACT) for controlling PE/PM10 from this emissions unit. BACT has been determined to be the following:
- i. use of baghouses (PS03 and PS15) for control of emissions from North dust load-out system including lime product material transfer, storage and loadout. The baghouse control system shall achieve a capture efficiency of 99.5% and a maximum outlet concentration of 0.01 grain PM10/dscf.
 - ii. mechanical enclosures for conveying equipment.
- 2.b** All emissions of particulate matter from the baghouse are PM10.
- 2.c** The Best Available Technology (BAT) requirements under OAC rule 3745-31-05(A)(3) do not apply to PE and PM10 emissions from this air contaminant source since the calculated annual emission rate for PE and PM10 emissions are each less than ten tons per year taking into account the federally enforceable lime load-out throughput restriction of 256,013 tons under OAC rule 3745-31-10 through 20.
- 2.d** The emissions limitations and control measure requirements specified by these rules are equivalent to or less stringent than the emissions limitations and control measure requirements established pursuant to OAC rule 3745-31-10 through 20.

II. Operational Restrictions

- 1. The maximum annual lime load-out shall not exceed 256,013 tons, based upon a rolling, 12-month summation of the monthly lime load-out rates.

III. Monitoring and/or Recordkeeping Requirements

- 1. The permittee shall perform checks at least 5 days per week, when the emissions unit is in operation and when the weather conditions allow, for any visible emissions of fugitive dust from the egress points (i.e., building windows, doors, roof monitors, etc.) serving the loadout spouts. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:

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

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

2. The permittee shall perform checks at least 5 days per week, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the two baghouse stacks serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. the total duration of any visible emission incident; and
 - c. any corrective actions taken to eliminate the visible emissions.
3. The permittee shall collect and record the following information each month for this emissions unit:
 - a. the amount of lime load-out for this emissions unit, in tons; and
 - b. the rolling, 12-month lime load-out for this emissions unit, in tons.

IV. Reporting Requirements

1. The permittee shall submit semiannual written reports that (a) identify all days during which any abnormal visible emissions of fugitive dust were observed from the egress points (i.e., building windows, doors, roof monitors, etc.) serving the loadout spouts and (b) describe any corrective actions taken to minimize or eliminate the abnormal visible

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emissions. These report shall be submitted to the Director (the appropriate Ohio EPA district office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month periods.

2. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the baghouse stack(s) serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These report shall be submitted to the Director (the appropriate Ohio EPA district office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month periods.
3. The permittee shall submit deviation reports, in accordance with the General Terms and Conditions of this permit, that identify all exceedances of the rolling, 12-month lime load-out restriction of 256,013 tons.

V. Testing Requirements

1. Compliance with the emissions limitations specified in Section A.I.1 of these terms and conditions shall be determined in accordance with the following methods:

- a. Emission Limitation
8.10 tons PM10/rolling, 12-month period

Applicable Compliance Method

The ton per year emission limitation was developed by multiplying the emission limitation of 0.01 gr PM10/dscf by the maximum volumetric flow rate (combined acfm of 10,780 from two baghouses), the maximum operating schedule of 8760 hours/year and applying the conversion factors of 60 minutes/hour, 2000 lbs/ton and 7000 grains/pound. Therefore, provided compliance is shown with the emission limitation of 0.01 gr PM10/dscf, compliance shall also be shown with the annual limitation.

- b. Emission Limitation
0.01 gr PM10/dscf

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with the 0.01 gr PM10/dscf by testing in accordance with Methods 201/201A and 202 of 40 CFR Part 51, Appendix M. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA, Northwest District Office.

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- c. Emission Limitation
0.39 ton fugitive PE/rolling, 12-month period; 0.21 ton fugitive PM-10/rolling, 12-month period

Applicable Compliance Method

The fugitive PE/PM10 emissions were determined by multiplying the maximum annual lime load-out of 256,013 tons by an emission factor of 0.61 lb PE/ton and 0.3355 lb PM10/ton from AP-42, Chapter 11.17-4 (02/98), applying a 99.5% control efficiency and dividing by 2000.

Provided compliance is shown with the maximum annual lime load-out and with the requirements of this permit to employ Best Available Control Technology (BACT), compliance with the annual limitation shall be assumed.

- d. Emission Limitation
Visible emissions of fugitive dust shall not exceed 20% opacity, as a 3-minute average from the loadout spouts.

Applicable Compliance Method

If required, compliance with the visible emission limitation 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 existed on July 1, 2002, and the modifications listed in paragraphs (B)(3)(a) and (B)(3)(b) of OAC rule 3745-17-03.

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

Applicable Compliance Method

If required, compliance with the visible emission limitation 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 existed on July 1, 2002.

- f. Emission Limitation
The maximum annual lime load-out shall not exceed 256,013 tons, based upon a rolling, 12-month summation of the monthly lime load-out rates.

Applicable Compliance Method

Compliance shall be demonstrated by the monitoring and record keeping requirements in A.III.3.

VI. Miscellaneous Requirements

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None

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B. State Only Enforceable Section

I. 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.

Operations, Property, and/or Equipment - (P903) - North dust load-out system including lime product material transfer, storage and loadout with two baghouses.(previously permitted as F006) (modification to change emissions unit I.D and increase annual throughput)

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
None	None

2. Additional Terms and Conditions

2.a None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

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Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. State and Federally Enforceable Section

I. 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.

Operations, Property, and/or Equipment - (P904) - East lime load-out, including lime product material screening, transfer, storage and load-out with two baghouses. (previously permitted as P032 and modified to change emissions unit ID and account for fugitive particulate emissions)

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
OAC rule 3745-31-10 through OAC rule 3745-31-20	See A.I.2.a. <u>Baghouse Stack Emissions</u> (PS16-new & PS16-0716 Baghouse Stacks): 3.32 tons particulate matter 10 microns or less in size (PM10)/rolling, 12-month period 0.005 grains PM10 /dry standard cubic foot (dscf) See A.I.2.b Visible particulate emissions (PE) shall not exceed 0% opacity, as a six-minute average from any baghouse stack <u>Fugitive Emissions:</u> 1.93 tons fugitive PE/rolling, 12-month period; 0.98 ton fugitive PM10/rolling, 12-month period Visible fugitive PE shall not exceed 20% opacity, as a three-minute average, from screening, transfer/storage and load-out spouts.
OAC rule 3745-31-05(A)(3)(b)	See A.I.2.c.

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OAC rule 3745-17-07 (B)(1)	See A.I.2.d.
OAC rule 3745-17-07 (A)	See A.I.2.d.
OAC rule 3745-17-08 (B)	See A.I.2.d.
OAC rule 3745-17-11 (B)	See A.I.2.d.

2. Additional Terms and Conditions

- 2.a** The permittee shall employ Best Available Control Technology (BACT) for controlling PE/PM10 from this emissions unit. BACT has been determined to be use of baghouses (PS16-new and PS16-0716) for control of emissions from East lime load-out, including lime product material screening, transfer, storage and load-out . The baghouse control system shall achieve a capture efficiency of 99.5% and a maximum outlet concentration of 0.005 grains PM10/dscf.
- 2.b** All emissions of particulate matter from the baghouse are PM10.
- 2.c** The Best Available Technology (BAT) requirements under OAC rule 3745-31-05(A)(3) do not apply to PE and PM10 emissions from this air contaminant source since the calculated annual emission rate for PE and PM10 emissions are each less than ten tons per year taking into account the federally enforceable lime load-out throughput restriction under OAC rule 3745-31-10 through 20.
- 2.d** The emissions limitations and control measure requirements specified by these rules are equivalent to or less stringent than the emissions limitations and control measure requirements established pursuant to OAC rule 3745-31-10 through 20.

II. Operational Restrictions

1. The maximum annual lime load-out shall not exceed 600,060 tons, based upon a rolling, 12-month summation of the monthly lime load-out rates.

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall perform checks at least 5 days per week, when the emissions unit is in operation and when the weather conditions allow, for any visible emissions of fugitive dust from the egress points (i.e., building windows, doors, roof monitors, etc.) serving the screening, transfer/storage and load-out spouts.

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

- a. the location and color of the emissions;

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

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

2. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the two baghouse stacks serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These report shall be submitted to the Director (the appropriate Ohio EPA district office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month periods.
 - a. the color of the emissions;
 - b. the total duration of any visible emission incident; and
 - c. any corrective actions taken to eliminate the visible emissions.
3. The permittee shall collect and record the following information each month for this emissions unit:
 - a. the amount of lime load-out for this emissions unit, in tons; and
 - b. the rolling, 12-month lime load-out for this emissions unit, in tons.

IV. Reporting Requirements

1. The permittee shall submit semiannual written reports that (a) identify all days during which any visible emissions of fugitive dust were observed from the egress points (i.e., building windows, doors, roof monitors, etc.) serving this emissions unit and (b)

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describe any corrective actions taken to minimize or eliminate the abnormal visible emissions. These report shall be submitted to the Director (the appropriate Ohio EPA district office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month periods.

2. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the baghouse stack(s) serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These report shall be submitted to the Director (the appropriate Ohio EPA district office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month periods.
3. The permittee shall submit deviation reports, in accordance with the General Terms and Conditions of this permit, that identify all exceedances of the rolling, 12-month lime load-out restriction of 600,060 tons.

V. Testing Requirements

1. Compliance with the emissions limitations specified in Section A.I.1 of these terms and conditions shall be determined in accordance with the following methods:

- a. Emission Limitation
 3.32 tons PM10/rolling, 12-month period from the(2) baghouse stacks

Applicable Compliance Method

The ton per year emission limitation was developed by multiplying the emission limitation of 0.005 gr PM10/dscf by the maximum volumetric flow rate (combined acfm of 8820 two baghouses), the maximum operating schedule of 8760 hours/year and applying the conversion factors of 60 minutes/hour, 2000 lbs/ton and 7000 grains/pound. Therefore, provided compliance is shown with the emission limitation of 0.005 gr PM10/dscf, compliance shall also be shown with the annual limitation.

- b. Emission Limitation
 0.005 gr PM10/dscf

Applicable Compliance Method

If required, the permittee shall demonstrate compliance with the 0.005 gr PM10/dscf by testing in accordance with Methods 201/201A and 202 of 40 CFR Part 51, Appendix M. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA, Northwest District Office.

- c. Emission Limitation
 1.93 ton fugitive PE/rolling, 12-month period; 0.98 ton fugitive PM10/rolling, 12-month period

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Applicable Compliance Method

The annual fugitive PE/PM10 limitations are the summation of emissions from the screens, transfer/storage, and load-out based on a maximum annual throughput of 600,060 tons through the storage screen and the corresponding annual throughput for each additional screen and transfer point.

The annual limitations for PE/PM10 are calculated using controlled emissions factors from AP-42, Chapter 11.17-4 (02/98) of 0.00061 lb PE/ton and 0.0003355 lb PM10/ton for screening, 0.000088 lb PE/ton and 0.0000484 lb PM10/ton for transfer/storage and 0.61 lb PE/ton/ and 0.3355 lb PM-10/ton for load-out multiplied by the maximum annual throughput for each screen, transfer/storage point and load-out spout and divided by 2000lbs/ton.

Provided compliance is shown with the maximum annual lime load-out and with the requirements of this permit to employ Best Available Control Technology (BACT), compliance with the annual limitation shall be assumed.

d. Emission Limitation

Visible fugitive PE shall not exceed 20% opacity, as a three-minute average, from screening, transfer/storage and load-out spouts.

Applicable Compliance Method

If required, compliance with the visible emission limitation 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 existed on July 1, 2002, and the modifications listed in paragraphs (B)(3)(a) and (B)(3)(b) of OAC rule 3745-17-03.

e. Emission Limitation

Visible particulate emissions shall not exceed 0% opacity, as a six-minute average from any baghouse stack.

Applicable Compliance Method

If required, compliance with the visible emission limitation 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 existed on July 1, 2002.

f. Emission Limitation

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The maximum annual lime load-out shall not exceed 600,060 tons, based upon a rolling, 12-month summation of the monthly lime load-out rates.

Applicable Compliance Method

Compliance shall be demonstrated by the monitoring and record keeping requirements in A.III.3.

VI. Miscellaneous Requirements

None

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B. State Only Enforceable Section

I. 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.

Operations, Property, and/or Equipment - (P904) - East lime load-out, including lime product material screening, transfer, storage and load-out with two baghouses. (previously permitted as P032 and modified to change emissions unit ID and account for fugitive particulate emissions)

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
None	None

2. **Additional Terms and Conditions**

- 2.a None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

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SIC CODE 3274 SCC CODE 3-05-016-01 EMISSIONS UNIT ID F005
 EMISSIONS UNIT DESCRIPTION 1000 tons/hr aggregate processing line (modification to PTI 03-13098, issued 12/21/98 to increase annual throughput and account for emissions from the installation of new equipment)

DATE INSTALLED modification upon issuance of PTI

EMISSIONS: (Click on bubble help for Air Quality Descriptions)

Pollutants	Air Quality Description	Actual Emissions Rate		PTI Allowable	
		Short Term Rate	Tons Per Year	Short Term Rate	Tons Per Year
Particulate Matter	attainment		26.9 (fugitive)		26.9 (fugitive)
PM ₁₀	attainment		9.79 (fugitive)		9.79 (fugitive)
Sulfur Dioxide					
Organic Compounds					
Nitrogen Oxides					
Carbon Monoxide					
Lead					
Other: Air Toxics					

APPLICABLE FEDERAL RULES:

NSPS? **000** NESHAP? PSD? **Y** OFFSET POLICY?

WHAT IS THE BAT DETERMINATION, AND WHAT IS THE BASIS FOR THE DETERMINATION?

Enter Determination: n compliance with the requirements established pursuant to 40 CFR, Part 60, Subpart 000 and the terms and conditions of this permit

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? no

OPTIONAL: WHAT IS THE CAPITAL COST OF CONTROL EQUIPMENT? \$ _____

TOXIC AIR CONTAMINANTS

Ohio EPA's air toxics policy applies to contaminants for which the American Conference of Governmental Industrial Hygienists (ACGIH) has a listed threshold limit value.

AIR TOXICS MODELING PERFORMED*? _____ YES X NO

IDENTIFY THE AIR CONTAMINANTS: _____

NEW SOURCE REVIEW FORM B

PTI Number: 03-17089 Facility ID: 0372000127

FACILITY NAME Martin Marietta Materials

FACILITY DESCRIPTION Lime manufacturer CITY/TWP Woodville

SIC CODE 3274 SCC CODE 3-05-016-04 EMISSIONS UNIT ID P902

EMISSIONS UNIT DESCRIPTION **37.5 ton/hour Rotary Lime Kiln no.7 with preheater, cooler and two baghouses and including limestone material handling**

DATE INSTALLED upon issuance of PTI

EMISSIONS: (Click on bubble help for Air Quality Descriptions)

Pollutants	Air Quality Description	Actual Emissions Rate		PTI Allowable	
		Short Term Rate	Tons Per Year	Short Term Rate	Tons Per Year
Particulate Matter	attainment		1.91		1.91
PM ₁₀	attainment	8.63 lbs/hr, 1.52 lbs/hr from NG comb.	39.03; 1.03 (fugitive)	8.63 lbs/hr, 1.52 lb/hr from NG comb.	39.03; 1.03 (fugitive)
Sulfur Dioxide	attainment	63.79 lbs/hr	279.23	63.79 lbs/hr	279.23
Organic Compounds	attainment	9.0 lbs/hr, 1.1 lbs/hr from NG comb.	39.42	9.0 lbs/hr, 1.1 lbs/hr from NG comb.	39.42
Nitrogen Oxides	attainment	153.75 lbs/hr, 28.0 lbs/hr from NG comb.	673.43	153.75 lbs/hr, 28.0 lbs/hr from NG comb.	673.43
Carbon Monoxide	attainment	75.0 lbs/hr, 16.8 lbs/hr from NG comb	328.5	75.0 lbs/hr, 16.8 lbs/hr from NG comb	328.5
Lead					
Other: HCl		10.80 lbs/hr	47.30	10.80 lbs/hr	47.30

APPLICABLE FEDERAL RULES:

NSPS? AAAAA, HH

NESHAP?

PSD? Y

OFFSET POLICY?

WHAT IS THE BAT DETERMINATION, AND WHAT IS THE BASIS FOR THE DETERMINATION?

Enter Determination: compliance with 40 CFR Part 63, subpart AAAAA, use of a baghouse for the kiln/cooler emissions with a 100% capture efficiency that achieves an overall emission rate of 0.1 lbs PE/ton stone feed, use of a baghouse with an overall capture efficiency of 99.5% and a maximum outlet grain loading of 0.007 grain/dscf for cooler discharge and product conveying operations

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? yes

OPTIONAL: WHAT IS THE CAPITAL COST OF CONTROL EQUIPMENT? \$

TOXIC AIR CONTAMINANTS

Ohio EPA's air toxics policy applies to contaminants for which the American Conference of Governmental Industrial Hygienists (ACGIH) has a listed threshold limit value.

AIR TOXICS MODELING PERFORMED*? X YES NOIDENTIFY THE AIR CONTAMINANTS: HCl, HF

NEW SOURCE REVIEW FORM B

PTI Number: 03-17089 Facility ID: 0372000127

FACILITY NAME Martin Marietta Materials

FACILITY DESCRIPTION Lime manufacturer CITY/TWP Woodville

SIC CODE 3274 SCC CODE 3-05-016-15 EMISSIONS UNIT ID P903

EMISSIONS UNIT DESCRIPTION North dust load-out system including lime product material screening, transfer, storage and loadout with two baghouses.(previously permitted as F006)
(modification to change emissions unit I.D and increase annual throughput)

DATE INSTALLED modification upon issuance of PTI

EMISSIONS: (Click on bubble help for Air Quality Descriptions)

Pollutants	Air Quality Description	Actual Emissions Rate		PTI Allowable	
		Short Term Rate	Tons Per Year	Short Term Rate	Tons Per Year
Particulate Matter	attainment		0.39 (fugitive)		0.39 (fugitive)
PM ₁₀	attainment		8.10, 0.21 (fugitive)		8.10, 0.21 (fugitive)
Sulfur Dioxide					
Organic Compounds					
Nitrogen Oxides					
Carbon Monoxide					
Lead					
Other: Air Toxics					

APPLICABLE FEDERAL RULES:

NSPS? NESHAP? PSD? **Y** OFFSET POLICY?

WHAT IS THE BAT DETERMINATION, AND WHAT IS THE BASIS FOR THE DETERMINATION?

Enter Determination: operation of two baghouses with a capture efficiency of 99.5% and a maximum outlet grain loading of 0.01 grains/dscf; mechanical enclosures for conveying equipment

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? no

OPTIONAL: WHAT IS THE CAPITAL COST OF CONTROL EQUIPMENT? \$

TOXIC AIR CONTAMINANTS

Ohio EPA's air toxics policy applies to contaminants for which the American Conference of Governmental Industrial Hygienists (ACGIH) has a listed threshold limit value.

AIR TOXICS MODELING PERFORMED*? _____ YES X NO

IDENTIFY THE AIR CONTAMINANTS: _____

