



John R. Kasich, Governor
Mary Taylor, Lt. Governor
Scott J. Nally, Director

9/20/2013

Tim Tawney
MARTIN MARIETTA MAGNESIA SPECIALTIES INC.
755 Lime Road
Woodville, OH 43469-9727

Certified Mail

Facility ID: 0372000127
Permit Number: P0087615
County: Sandusky

RE: PRELIMINARY PROPOSED AIR POLLUTION TITLE V PERMIT
Permit Type: Renewal

Dear Permit Holder:

Enclosed is the Ohio Environmental Protection Agency (EPA) Preliminary Proposed Title V permit that was issued in draft form on 7/26/2013. The comment period for the Draft permit has ended. We are now ready to submit this permit to U.S. EPA for approval.

We are submitting this for your review and comment. If you do not agree with the Preliminary Proposed Title V permit as written, you now have the opportunity to raise your concerns. This permit can be accessed electronically on the Division of Air Pollution Control (DAPC) Web page, www.epa.ohio.gov/dapc by clicking the "Search for Permits" link under the Permitting topic on the Programs tab. Comments will be accepted as a marked-up copy of the permit or in narrative format. Any comments must be sent to the following within 14 days of your receipt of this letter:

Andrew Hall
Permit Review/Development Section
Ohio EPA, DAPC
50 West Town Street, Suite 700
P.O. Box 1049
Columbus, Ohio 43216-1049

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

If you believe that it is necessary to have an informal conference with us, then, as part of your written comments, you should request a conference concerning the written comments. If comments are not submitted within 14 days of your receipt of this letter, we will forward the proposed permit to U.S. EPA for approval. All comments received will be carefully considered before proceeding with the proposed permit.

Sincerely,

Michael W. Ahern
Michael W. Ahern, Manager
Permit Issuance and Data Management Section, DAPC

Cc: Ohio EPA DAPC, Northwest District Office



Response to Comments

Facility ID:	0372000127
Facility Name:	MARTIN MARIETTA MAGNESIA SPECIALTIES INC.
Facility Description:	Lime
Facility Address:	755 Lime Road Woodville, OH 43469-9727 Sandusky County
Permit:	P0087615, Title V Permit - Renewal
A public notice for the draft permit issuance was published in the Ohio EPA Weekly Review and appeared in the Fremont News Messenger on 08/01/2013. The comment period ended on 08/31/2013.	
Hearing date (if held)	
Hearing Public Notice Date (if different from draft public notice)	

The following comments were received during the comment period specified. Ohio EPA reviewed and considered all comments received during the public comment period. By law, Ohio EPA has authority to consider specific issues related to protection of the environment and public health. Often, public concerns fall outside the scope of that authority. For example, concerns about zoning issues are addressed at the local level. Ohio EPA may respond to those concerns in this document by identifying another government agency with more direct authority over the issue.

In an effort to help you review this document, the questions are grouped by topic and organized in a consistent format. PDF copies of the original comments in the format submitted are available upon request.

1. Topic: Table of Contents

- a. Comment: There are some items that don't belong here or incorrect
- b. Response: Will notify Central Office of a merging error prior to issuing PPP

2. Topic: Facility-Wide Terms and Conditions

- a. Comment: Emission unit P103 described as diesel-fired and should be NG fired
- b. Response: changed description to natural gas fired

3. Topic: F005 eu description

- a. Comment: company would prefer eu description be either 5,000,000 tpy aggregate processing line or simply aggregate processing line
- b. Response: changed eu description to "aggregate processing line"

4. Topic: F005 removal of conveyor from list in b)(2)b.

- a. Comment: additional T&C b)(2)b. described best available control measures for emissions pts



contained within tunnel enclosures. #7 stone belt conveyor 29-116949 is not located in a tunnel and needs removed from list

b. Response: Removed #7 stone belt conveyor from the list

5. Topic: F005 additional T&C needed to include NSPS opacity limits for sources mfg after 4/22/08

a. Comment: language needs included under addtl. T&C b)(2)g. to include opacity limitations for affected sources mfg. after 4/22/08

b. Response: opacity limits of 12% for crushers and 7% for screens and transfer pts. were added for affected sources mfg. after 4/22/08

6. Topic: P004 eu description

a. Comment: company would like eu description changed to indicate west plant instead of north plant

b. Response: made the change per company's request

7. Topic: P030 incorrect PE limitation

a. Comment: incorrect PE limitation listed for OAC rule 3745-17-11(B)

b. Response: corrected PE limit to 8.14 lbs PE/hour based on Figure II and an uncontrolled PE rate of 60 lbs/hr

8. Topic: P902 typo with NOx limitation

a. Comment: NOx limit for OAC rule 3745-31-10 through 3745-31-20 has a typo

b. Response: corrected limit to state 4.1 lbs nitrogen oxides (NOx)/ton lime

9. Topic: P902 typo in operational restriction c)4.

a. Comment: operational restriction c)4. References A.V.4 and should reference f)3.

b. Response: made the appropriate change

10. Topic: P902 error in calculating percent control efficiency in term f)(3).

a. Comment: last sentence should subtract the calculated number by 1 before multiplying by 100.

b. Response: made the appropriate change

11. Topic: Emission group 1: P010, P013, P014 testing f)1. typo

a. Comment: testing language stated an "of" which should've been "or"

b. Response: made the appropriate revision

12. Topic: Emission group 3: F003, F004, F007 eu designation change

a. Comment: company would like F007 to be identified as Lime Loadout – West Plant



b. Response: Changed the eu identification to west plant

13. Topic: Emission group 5: P108, P109 incorrect requirements listed for 40 CFR 63.6602

a. Comment: incorrect requirements were put in for 40 CFR 63.6602

b. Response: the hours of operations in i., ii., and iii. were all changed to 1,440

14. Topic: Emission group 5: P108, P109 replacement engine

a. Comment: the company has requested an additional T&C be added for replacing an engine with a spare due to unforeseen circumstances similar to language for emissions group 6 (P110, P111 P112).

b. Response: added the requested language with the information provided by the company for the replacement engine.



PRELIMINARY PROPOSED

**Division of Air Pollution Control
Title V Permit**

for

MARTIN MARIETTA MAGNESIA SPECIALTIES INC.

Facility ID:	0372000127
Permit Number:	P0087615
Permit Type:	Renewal
Issued:	9/20/2013
Effective:	To be entered upon final issuance
Expiration:	To be entered upon final issuance



Division of Air Pollution Control
Title V Permit
for
MARTIN MARIETTA MAGNESIA SPECIALTIES INC.

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Preliminary Proposed Title V Permit
MARTIN MARIETTA MAGNESIA SPECIALTIES INC.
Permit Number: P0087615
Facility ID: 0372000127
Effective Date: To be entered upon final issuance

Authorization

Facility ID: 0372000127
Facility Description: Lime
Application Number(s): A0018629, A0018630, A0041812, A0047656
Permit Number: P0087615
Permit Description: Renewal Title V operating permit for a lime manufacturing facility
Permit Type: Renewal
Issue Date: 9/20/2013
Effective Date: To be entered upon final issuance
Expiration Date: To be entered upon final issuance
Superseded Permit Number: P0087613

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

MARTIN MARIETTA MAGNESIA SPECIALTIES INC.
755 Lime Road
Woodville, OH 43469-9727

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

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

The above named entity is hereby granted a Title V permit pursuant to Chapter 3745-77 of the Ohio Administrative Code. This permit and the authorization to operate the air contaminant sources (emissions units) at this facility shall expire at midnight on the expiration date shown above. You will be sent a notice approximately 18 months prior to the expiration date regarding the renewal of this permit. If you do not receive a notice, please contact the Ohio EPA DAPC, Northwest District Office. If a renewal permit is not issued prior to the expiration date, the permittee may continue to operate pursuant to OAC rule 3745-77-08(E) and in accordance with the terms of this permit beyond the expiration date, if a timely renewal application is submitted. A renewal application will be considered timely if it is submitted no earlier than 18 months (540 days) and no later than 6 months (180 days) prior to the expiration date.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

Scott J. Nally
Director



Preliminary Proposed Title V Permit
MARTIN MARIETTA MAGNESIA SPECIALTIES INC.
Permit Number: P0087615
Facility ID: 0372000127
Effective Date: To be entered upon final issuance

A. Standard Terms and Conditions



1. Federally Enforceable Standard Terms and Conditions

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

(Authority for term: ORC 3704.036(A))

2. Monitoring and Related Record Keeping and Reporting Requirements

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

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

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

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



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

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

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

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

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

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

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

Written reports of (a) any deviations from federally enforceable emission limitations, operational restrictions, and control device operating parameter limitations, (b) the probable cause of such deviations, and (c) any corrective actions or preventive



measures taken, shall be promptly made to the appropriate Ohio EPA District Office or local air agency. Except as provided below, the written reports shall be submitted (i.e., postmarked) by January 31, April 30, July 31, and October 31 of each year; and each report shall cover the previous calendar quarter.

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

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

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

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

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

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

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



insignificant activities or emissions levels (IEU) identified in section B. Facility-Wide Terms and Conditions of this Title V permit. Annual reporting of deviations is deemed adequate to meet the deviation reporting requirements for IEUs unless otherwise specified by permit or rule.

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

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

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

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

- (4) Each written report shall be signed by a responsible official certifying that, "based on information and belief formed after reasonable inquiry, the statements and information in the report (including any written malfunction reports required by OAC rule 3745-15-06 that are referenced in the deviation reports) are true, accurate, and complete."

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

- (5) Reports of any required monitoring and/or record keeping information shall be submitted to Ohio EPA DAPC, Northwest District Office.

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

3. Scheduled Maintenance

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

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

4. Risk Management Plans

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



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

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

5. Title IV Provisions

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

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

6. Severability Clause

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

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

7. General Requirements

- a) 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 reissuance, or modification, or for denial of a permit renewal application.
- b) It shall not be a defense for the permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the federally enforceable terms and conditions of this permit.
- c) This permit may be modified, reopened, revoked, or revoked and reissued, for cause, in accordance with Standard Term and Condition A.11 below. The filing of a request by the permittee for a permit modification, revocation and reissuance, or revocation, or of a notification of planned changes or anticipated noncompliance does not stay any term and condition of this permit.
- d) This permit does not convey any property rights of any sort, or any exclusive privilege.
- e) The permittee shall furnish to the Director of the Ohio EPA, or an authorized representative of the Director, upon receipt of a written request and within a reasonable time, any information that may be requested to determine whether cause exists for modifying, reopening or revoking this permit or to determine compliance with this permit. Upon request, the permittee shall also furnish to the Director or an authorized representative of the Director, copies of records required to be kept by this permit. For information claimed to be confidential in the submittal to the



Director, if the Administrator of the U.S. EPA requests such information, the permittee may furnish such records directly to the Administrator along with a claim of confidentiality.

- f) Except as otherwise indicated below, this Title V permit, or permit modification, is effective for five years from the original effective date specified in the permit. In the event that this facility becomes eligible for non-title V permits, this permit shall cease to be enforceable when:
- (1) the permittee submits an approved facility-wide potential to emit analysis supporting a claim that the facility no longer meets the definition of a "major source" as defined in OAC rule 3745-77-01(W) based on the permanent shutdown and removal of one or more emissions units identified in this permit; or
 - (2) the permittee no longer meets the definition of a "major source" as defined in OAC rule 3745-77-01(W) based on obtaining restrictions on the facility-wide potential(s) to emit that are federally enforceable or legally and practically enforceable ; or
 - (3) a combination of (1) and (2) above.

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

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

8. Fees

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

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

9. Marketable Permit Programs

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

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

10. Reasonably Anticipated Operating Scenarios

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



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

11. Reopening for Cause

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

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

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

12. Federal and State Enforceability

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

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

13. Compliance Requirements

- a) Any document (including reports) required to be submitted and required by a federally applicable requirement in this Title V permit shall include a certification by a responsible official that, based on information and belief formed after reasonable inquiry, the statements in the document are true, accurate, and complete.
- b) Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the Director of the Ohio EPA or an authorized representative of the Director to:
 - (1) At reasonable times, enter upon the permittee's premises where a source is located or the emissions-related activity is conducted, or where records must be kept under the conditions of this permit.



- (2) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit, subject to the protection from disclosure to the public of confidential information consistent with paragraph (E) of OAC rule 3745-77-03.
 - (3) Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit.
 - (4) As authorized by the Act, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit and applicable requirements.
- c) The permittee shall submit progress reports to the appropriate Ohio EPA District 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:
- (1) Dates for achieving the activities, milestones, or compliance required in any schedule of compliance, and dates when such activities, milestones, or compliance were achieved.
 - (2) An explanation of why any dates in any schedule of compliance were not or will not be met, and any preventive or corrective measures adopted.
- d) Compliance certifications concerning the terms and conditions contained in this permit that are federally enforceable emission limitations, standards, or work practices, shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) and the Administrator of the U.S. EPA in the following manner and with the following content:
- (1) Compliance certifications shall be submitted annually on a calendar year basis. The annual certification shall be submitted (i.e., postmarked) on or before April 30th of each year during the permit term.
 - (2) Compliance certifications shall include the following:
 - a. An identification of each term or condition of this permit that is the basis of the certification.
 - b. The permittee's current compliance status.
 - c. Whether compliance was continuous or intermittent.
 - d. The method(s) used for determining the compliance status of the source currently and over the required reporting period.
 - e. Such other facts as the Director of the Ohio EPA may require in the permit to determine the compliance status of the source.



- (3) Compliance certifications shall contain such additional requirements as may be specified pursuant to sections 114(a)(3) and 504(b) of the Act.

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

14. Permit Shield

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

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

15. Operational Flexibility

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

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

16. Emergencies

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

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

17. Off-Permit Changes

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



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

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

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

18. Compliance Method Requirements

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

(This term is provided for informational purposes only.)

19. Insignificant Activities or Emissions Levels

Each IEU that has one or more applicable requirements shall comply with those applicable requirements.

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

20. Permit to Install Requirement

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

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



21. Air Pollution Nuisance

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

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

22. Permanent Shutdown of an Emissions Unit

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

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

No emissions unit certified by the responsible official as being permanently shut down may resume operation without first applying for and obtaining a permit to install pursuant to OAC Chapter 3745-31.

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

23. Title VI Provisions

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

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

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



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

The permittee shall submit required reports in the following manner:

- a) Reports of any required monitoring and/or record keeping information shall be submitted to the 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 (i) any deviations (excursions) from emission limitations, operational restrictions, and control device operating parameter limitations that have been detected by the testing, monitoring, and record keeping requirements specified in this permit, (ii) the probable cause of such deviations, and (iii) any corrective actions or preventive measures which have been or will be taken, shall be submitted to the appropriate Ohio EPA District Office or local air agency. In identifying each deviation, the permittee shall specify the applicable requirement for which the deviation occurred, describe each deviation, and provide the magnitude and duration of each deviation. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted (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.)

25. Records Retention Requirements Under State Law Only

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

26. Inspections and Information Requests

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

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



27. Scheduled Maintenance/Malfunction Reporting

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

28. Permit Transfers

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

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

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

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

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

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



Preliminary Proposed Title V Permit
MARTIN MARIETTA MAGNESIA SPECIALTIES INC.
Permit Number: P0087615
Facility ID: 0372000127
Effective Date: To be entered upon final issuance

B. Facility-Wide Terms and Conditions



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

a) None.

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

EU ID	Operations, Property and/or Equipment Description
F009	#7 Kiln coal/coke handling (PTI 03-17089 effective 11/13/2008)
P103	MgO plant emergency natural gas-fired generator, 40 HP, permit exempt
B001	MgO plant boiler

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

3. The following emissions units located at this facility are subject to all applicable requirements as outlined in OAC rule 3745-31-03(A)(4)(b):

EU ID	Operations, Property and/or Equipment Description
P905	149 HP, natural gas powered emergency generator for #7 kiln engine (PBR10991)

[Authority for term: OAC rule 3745-77-07(A)(13)]

4. The permittee is subject to the applicable emission limitations and/or control measures, operational restrictions, monitoring and/or record keeping requirements, reporting requirements, testing requirements and the general and/or other requirements specified in 40 CFR Part 63, Subpart ZZZZ, in accordance with 40 CFR Parts 63.6580 through 63.6675 (including the Table(s) and Appendix(ices) referenced in Subpart ZZZZ).. The following emissions units in this permit are subject to the aforementioned requirements and shall meet the requirements of 40 CFR Part 63, Subpart ZZZZ no later than May 3, 2013:

EU ID	Operations, Property and/or Equipment Description
P108	#1 Kiln Engine
P109	#2 Kiln Engine
P110	#4 Kiln Engine
P011	#5 Kiln Engine
P012	#6 Kiln Engine

[40 CFR Part 63 Subpart ZZZZ]

The following emission unit in this permit is subject to the aforementioned requirements and shall meet the requirements of 40 CFR Part 63, Subpart ZZZZ no later than January 18, 2008:

EU ID	Operations, Property and/or Equipment Description
P103	MgO plant emergency 40 HP natural gas-fired generator



[40 CFR Part 63 Subpart ZZZZ]

The following emission unit in this permit is subject to the aforementioned requirements and shall meet the requirements of 40 CFR Part 63, Subpart ZZZZ upon start-up of the source.

EU ID	Operations, Property and/or Equipment Description
P905	149 HP, natural gas powered emergency generator for #7 kiln engine

[40 CFR Part 63 Subpart ZZZZ]

The permittee shall comply with the applicable restrictions under 40 CFR Part 63, Subpart ZZZZ for emissions units P103 and P905, including the following sections:

63.6605	General compliance requirements
63.6625(h)	
63.6640	Monitoring, installation, operation and maintenance requirements
63.6655(a), (e)	
	Continuous compliance
	Recordkeeping

5. The permittee is subject to the applicable emission limitation and/or control measures, operational restrictions, monitoring and/or record keeping requirements, reporting requirements, testing requirements and the general and/or other requirements specified in 40 CFR Part 63, Subpart AAAAA, in accordance with 40 CFR Parts 63.7080 through 63.7143 (including the Table(s) and Appendix (icies) referenced in Subpart AAAAA). The following emissions unit in this permit are subject to the aforementioned requirements:

EU ID	Operations, Property and/or Equipment Description
P010	#5 Rotary Kiln
P013	#4 Rotary Kiln
P014	#6 Rotary Kiln
P015	#1 Rotary Kiln
P019	#2 Rotary Kiln
P902	#7 Rotary Kiln

[40 CFR Part 63 Subpart AAAAA]

5. The permittee is subject to 40 CFR Part 60, Subpart JJJJ, New Source Performance Standards: Stationary Spark Ignition Internal Combustion Engines. The permittee shall comply with all applicable requirements of 40 CFR Part 60, Subpart JJJJ. The permittee shall also comply with all applicable requirements of 40 CFR Part 60, Subpart A (General Provisions) as identified in Table 3 of 40 CFR Part 63, Subpart JJJJ. Compliance with all applicable requirements shall be achieved by the dates set forth in 40 CFR Part 60 Subpart JJJJ and Subpart A. The NSPS 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 appropriate Ohio EPA District office or local air agency.

EU ID	Operations, Property and/or Equipment Description
P905	149 HP, natural gas powered emergency generator for #7 kiln engine

[Authority for Term: 40 CFR, Part 60, Subpart JJJJ]



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MARTIN MARIETTA MAGNESIA SPECIALTIES INC.
Permit Number: P0087615
Facility ID: 0372000127
Effective Date: To be entered upon final issuance

C. Emissions Unit Terms and Conditions

- 1. F001, Paved/Unpaved Roadways**



1. Operations, Property and/or Equipment Description:

Paved and unpaved roadways and parking areas

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

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

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

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

(2) Additional Terms and Conditions

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

paved roadways: all asphalt road, concrete and stone-paved roadways and parking areas

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

unpaved roadways: all unpaved roadways and parking areas



- c. The permittee shall employ reasonably available control measures on all paved roadways and parking areas for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to treat the paved roadways and parking areas by sweeping at sufficient treatment frequencies to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- d. The permittee shall employ reasonably available control measures on all unpaved roadways and parking areas for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to treat the unpaved roadways and parking areas with water at sufficient treatment frequencies to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- e. The needed frequencies of implementation of the control measures shall be determined by the permittee's inspections pursuant to the monitoring section of this permit. Implementation of the control measures shall not be necessary for a paved or unpaved roadway or parking area that is covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements. Implementation of any control measure may be suspended if unsafe or hazardous driving conditions would be created by its use.
- f. Any unpaved roadway or parking area, which during the term of this permit is paved or takes the characteristics of a paved surface due to the application of certain types of dust suppressants, may be controlled with the control measure(s) specified above for paved surfaces. Any unpaved roadway or parking area that takes the characteristics of a paved roadway or parking area due to the application of certain types of dust suppressants shall remain subject to the visible emission limitation for unpaved roadways and parking areas. Any unpaved roadway or parking area that is paved shall be subject to the visible emission limitation for paved roadways and parking areas.
- g. The permittee shall promptly remove, in such a manner as to minimize or prevent resuspension, earth and/or other material from paved streets onto which such material has been deposited by trucking or earth moving equipment or erosion by water or other means.
- h. Open-bodied vehicles transporting materials likely to become airborne shall have such materials covered at all times if the control measure is necessary for the materials being transported.
- i. Implementation of the above-mentioned control measures in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the requirements of OAC rule 3745-17-08.



c) Operational Restrictions

- (1) None.

d) Monitoring and/or Recordkeeping Requirements

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

<u>paved roadways and parking areas:</u>	<u>Minimum inspection frequency:</u>
All	Daily
 <u>Unpaved roadways and parking areas:</u>	 <u>Minimum inspection frequency:</u>
All	Daily

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

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

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

- (3) The permittee may, upon receipt of written approval from the appropriate Ohio EPA District Office or local air agency, modify the above-mentioned inspection frequencies if operating experience indicates that less frequent inspections would be sufficient to ensure compliance with the above-mentioned applicable requirements.

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

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



The information required in (4)d shall be kept separately for (i) the paved roadways and parking areas and (ii) the unpaved roadways and parking areas, and shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

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

e) Reporting Requirements

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

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

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

- (2) Unless other arrangements have been approved by the Director, all notifications and reports shall be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal.

[OAC rule 3745-15-03(A)]

f) Testing Requirements

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

- a. Emission Limitation:
There shall be no visible emissions of fugitive dust from the paved roadways and/or parking areas except for a period of time not to exceed 6 minutes during any 60-minute observation period.

Applicable Compliance Method:
Compliance with the visible emissions limitation for fugitive dust from the paved roadways and/or parking areas identified in this permit shall be determined in accordance with U.S. EPA Method 22 and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(d) of OAC rule 3745-17-03.

[OAC 3745-17-03(B)(4) and OAC rule 3745-77-07(C)(1)]

- b. Emission Limitation:
There shall be no visible emissions of fugitive dust from the unpaved roadways and/or parking areas except for a period of time not to exceed 13 minutes during any 60-minute observation period.



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Applicable Compliance Method:

Compliance with the visible emissions limitation for fugitive dust from the unpaved roadways and/or parking areas identified in this permit shall be determined in accordance with U.S. EPA Method 22 and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(d) of OAC rule 3745-17-03.

[OAC 3745-17-03(B)(4) and OAC rule 3745-77-07(C)(1)]

- g) Miscellaneous Requirements
 - (1) None.



2. F002, Storage piles, plant stockpiles

Operations, Property and/or Equipment Description:

Storage piles

- a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.
 - (1) None.
- b) Applicable Emissions Limitations and/or Control Requirements
 - (1) The specific operation(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures are identified below. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-17-07(B)(6)	<u>load-in and load-out of storage piles</u> no visible particulate emissions from any storage pile except for a period of time not to exceed 13 minutes during any 60-minute observation period <u>wind erosion from storage piles</u> no visible particulate emissions from any storage pile except for a period of time not to exceed 13 minutes during any 60-minute observation period See b)(2)a.
b.	OAC rule 3745-17-08(B)	<u>load-in and load-out of storage piles</u> reasonably available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust [See b)(2)b., b)(2)c. and b)(2)f.] <u>wind erosion from storage piles</u> reasonably available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust [See b)(2)d. through b)(2)f.]



(2) Additional Terms and Conditions

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

aggregate products, byproducts, fuels
- b. The permittee shall employ reasonably available control measures on all load-in and load-out operations associated with the storage piles for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to maintain minimal drop heights from loader buckets and to maintain a sufficient moisture level in the stone to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- c. The above-mentioned control measure(s) shall be employed for each load-in and load-out operation of each storage pile if the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the control measure(s) are necessary to ensure compliance with the above-mentioned applicable requirements. Any required implementation of the control measure(s) shall continue during any such operation until further observation confirms that use of the measure(s) is unnecessary.
- d. The permittee shall employ reasonably available control measures for wind erosion from the surfaces of all storage piles for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to maintain a sufficient moisture level in the stone, use a suitable dust suppressant, and/or use wind blocks/screens to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- e. The above-mentioned control measure(s) shall be employed for wind erosion from each pile if the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the control measure(s) are necessary to ensure compliance with the above-mentioned applicable requirements. Implementation of the control measure(s) shall not be necessary for a storage pile that is covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements.
- f. Implementation of the above-mentioned control measures in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the requirements of OAC rule 3745-17-08.

c) Operational Restrictions

None.



d) Monitoring and/or Recordkeeping Requirements

- (1) Except as otherwise provided in this section, the permittee shall perform inspections of each load-in operation at each storage pile in accordance with the following frequencies:

storage pile identification: minimum load-in inspection frequency:

All Weekly

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

- (2) Except as otherwise provided in this section, the permittee shall perform inspections of each load-out operation at each storage pile in accordance with the following frequencies:

storage pile identification: minimum load-out inspection frequency:

All Weekly

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

- (3) Except as otherwise provided in this section, the permittee shall perform inspections of the wind erosion from pile surfaces associated with each storage pile in accordance with the following frequencies:

storage pile identification: minimum wind erosion inspection frequency:

All Weekly

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

- (4) No inspection shall be necessary for wind erosion from the surface of a storage pile when the pile is covered with snow and/or ice and for any storage pile activity if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements. Any required inspection that is not performed due to any of the above identified events shall be performed as soon as such event(s) has (have) ended, except if the next required inspection is within one week.

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

- (5) The purpose of the inspections is to determine the need for implementing the control measures specified in this permit for load-in and load-out of a storage pile, and wind erosion from the surface of a storage pile. The inspections shall be performed during representative, normal storage pile operating conditions.

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

- (6) The permittee may, upon receipt of written approval from the appropriate Ohio EPA District Office or local air agency, modify the above-mentioned inspection frequencies if operating experience indicates that less frequent inspections would be sufficient to ensure compliance with the above-mentioned applicable requirements.



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

- (7) The permittee shall maintain records of the following information:
- a. the date and reason any required inspection was not performed, including those inspections that were not performed due to snow and/or ice cover or precipitation;
 - b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measures;
 - c. the dates the control measures were implemented; and
 - d. on a calendar quarter basis, the total number of days the control measures were implemented and, for wind erosion from pile surfaces, the total number of days where snow and/or ice cover or precipitation were sufficient to not require the control measure(s).

The information required in d)(7)d. shall be kept separately for (i) the load-in operations, (ii) the load-out operations, and (iii) the pile surfaces (wind erosion), and shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

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

e) Reporting Requirements

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

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

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

- (2) Unless other arrangements have been approved by the Director, all notifications and reports shall be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal.

[OAC rule 3745-15-03(A)]



f) Testing Requirements

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

a. Emission Limitation:

There shall be no visible emissions of fugitive dust from material storage piles except for a period of time not to exceed 13 minutes during any 60-minute observation period.

Applicable Compliance Method:

Compliance with the visible emissions limitation for fugitive dust from the material storage piles areas identified in this permit shall be determined in accordance with U.S. EPA Method 22 and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(c) of OAC rule 3745-17-03.

[OAC 3745-17-03(B)(4) and OAC rule 3745-77-07(C)(1)]

g) Miscellaneous Requirements

(1) None.



3. F005, Stone crushing & screening - north plant

Operations, Property and/or Equipment Description:

Aggregate processing line

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

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-10 through OAC rule 3745-31-20 (PTI #03-17089, issued 11/13/08)	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 b)(2)a. Best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust [See b)(2)b. through b)(2)d.]
b.	OAC rule 3745-31-05 (A)(3) (PTI #03-17089, issued 11/13/08)	See b)(2)e.
c.	OAC rule 3745-17-07(B)(1)	See b)(2)f.
d.	OAC rule 3745-17-08(B)	See b)(2)f.
e.	40 CFR, Part 60, Subpart OOO	Visible emissions restrictions [See b)(2)g.]
f.	ORC 3704.03(T)(4)	See b)(2)e.



(2) Additional Terms and Conditions

- 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 b)(2)b.]
 - ii. compliance with the requirements established pursuant to 40 CFR, Part 60, Subpart OOO [See b)(2)g.]
- 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:

- i. surge pile vibrating feeder #1 (29-123346)
 - ii. surge pile vibrating feeder #2 (29-123347)
 - iii. 29-3915
 - iv. 29-3916
 - v. 29-3917
 - vi. 29-3918
 - vii. 29-3919
 - viii. 29-3920
 - ix. 29-5730
 - x. 29-5731
- 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.
- d. Implementation of the above-mentioned control measures in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the requirements of OAC rule 3745-31-10 through OAC rule 3745-31-20.
- 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.



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 emission limitation of 9.79 tons PM10 per year and the requirement to apply best available control measures under OAC rule 3745-31-10 through 20.

- f. 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.
- g. The permittee shall not cause to be discharged into the atmosphere, fugitive emissions which exhibit greater than the following for affected facilities that commenced construction, modification or reconstruction after August 31, 1983 but before April 22, 2008:

Material Handling/Processing Operation	Opacity limit, as a 6-minute average
all crushers	15%
all screens and transfer points	10%

The permittee shall not cause to be discharged into the atmosphere, fugitive emissions which exhibit greater than the following for affected facilities that commence construction, modification, or reconstruction on or after April 22, 2008:

Material Handling/Processing Operation	Opacity limit, as a 6-minute average
all crushers	12%
all screens and transfer points	7%

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 (32-123345)	crusher
32-0459	crusher
53-0320	screen
53-0326	screen
53-0327	screen
53-124021	screen
29-5763	transfer point
29-1332	transfer point



29-1331	transfer point
surge pile feed belt conveyor (29-116951)	transfer point
surge pile vibrating feeder #1 (29-123346)	transfer point
surge pile vibrating feeder #2 (29-123347)	transfer point
surge pile tunnel belt (29-116952)	transfer point
Grizzly thru belt conveyor (29-116953)	transfer point
secondary discharge conveyor(29-116954)	transfer point
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
surge stacking conveyor (29-106349)	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
29-1328	transfer point
de-dust feed belt conveyor (29-116945)	transfer point
gathering belt conveyor (29-116946)	transfer point
de-dust thru conveyor (29-116947)	transfer point
29-1325	transfer point
29-116948	transfer point
29-3912	transfer point
29-3756	transfer point



29-1316	transfer point
#7 stone feed belt conveyor 1 (29-116949)	transfer point
#7 stone feed belt conveyor 2 (29-116950)	transfer point

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

c) 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.

[OAC rule 3745-77-07(A)(1) and PTI #03-17089]

d) 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.

[OAC rule 3745-77-07(C)(1) and PTI #03-17089]

(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:

<u>Material Handling/Processing Operations</u>	<u>Minimum Inspection Frequency</u>
All	Once per week

[OAC rule 3745-77-07(C)(1) and PTI #03-17089]

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

[OAC rule 3745-77-07(C)(1) and PTI #03-17089]

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

- a. the date and reason any required inspection was not performed;



- b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measure(s);
- c. the dates the control measure(s) was (were) implemented; and
- d. on a calendar quarter basis, the total number of days the control measure(s) was (were) implemented.

The information in d)(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.

[OAC rule 3745-77-07(C)(1) and PTI #03-17089]

e) Reporting Requirements

- (1) The permittee shall submit quarterly deviation (excursion) reports that identify the following:
 - a. each day during which an inspection was not performed by the required frequency;
 - b. each instance when a control measure, that was to be performed as a result of an inspection, was not implemented; and
 - c. all exceedances of the rolling, 12-month aggregate throughput restriction of 5,000,000 tons.

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

[OAC rule 3745-77-07(C)(1) and PTI#03-17089]

- (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.

[OAC rule 3745-77-07(C)(1), 40 CFR, Part 60, Subpart OOO and PTI#03-17089]

- (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
- 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.

[OAC rule 3745-77-07(C)(1), 40 CFR, Part 60, Subpart OOO and PTI#03-17089]

- (4) Unless other arrangements have been approved by the Director, all notifications and reports shall be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal.

[OAC rule 3745-15-03(A)]

f) Testing Requirements

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

- a. Emission Limitation:
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 will be assumed.

[OAC rule 3745-77-07(C)(1) and PTI#03-17089]



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.

[OAC rule 3745-77-07(C)(1) and PTI#03-17089]

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:

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.

[OAC rule 3745-77-07(C)(1) and PTI#03-17089]

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.

Applicable Compliance Method:

Compliance shall be demonstrated by the monitoring and record keeping in d)(1).

[OAC rule 3745-77-07(C)(1) and PTI#03-17089]

g) Miscellaneous Requirements

(1) None.



4. F008, Mineral extraction, overburden removal

Operations, Property and/or Equipment Description:

mineral extraction

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

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-17-07(B)(1)	<u>Drilling, overburden removal, truck unloading, waste disposal and reclamation:</u> Visible fugitive particulate emissions shall not exceed 20% opacity, as a 3-minute average.
b.	OAC rule 3745-17-08(B)(3)	<u>Drilling</u> The controlled emissions from the stack shall achieve an outlet emission rate of not greater than 0.030 grain of particulate emissions per dry standard cubic foot of exhaust gases or there shall be no visible emissions from the exhaust stack. See b)(2)b.
c.	OAC rule 3745-17-08(B)	reasonably available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust See b)(2)c.
d.	OAC rule 3745-17-07(B)	<u>Blasting</u> See b)(2)d.



(2) Additional Terms and Conditions

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

 Drilling, blasting, overburden removal, truck loading, waste disposal and reclamation
- b. The installation and use of hoods, fans, and/or other equipment to adequately enclose, contain, capture, vent, and control fugitive dust from this emissions unit shall meet the following requirements:
 - i. the collection efficiency shall be sufficient to minimize or eliminate visible emissions of fugitive dust at the point(s) of capture to the extent possible with good engineering design; and
 - ii. the control equipment for this emissions unit shall achieve an outlet emission rate of not greater than 0.030 grain of particulate emissions per dry standard cubic foot of exhaust gases or there shall be no visible particulate emissions (whichever is less stringent) from the exhaust stack of this emissions unit.
- c. The permittee shall employ reasonably available control measures for the above identified mineral extraction operations for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to perform the following control measures to ensure compliance:

Mineral extraction operation	Control measure(s)
drilling	<p>Any drill used at this facility shall employ reasonably available control measures (RACM) at all times for the fugitive dust emissions. RACM for drilling operations shall be a baghouse, water ring, or other acceptable control measure*.</p> <p>No "contract drilling" shall occur at this plant without the permittee first certifying, in writing to the Ohio EPA, Northwest District Office, that the contractor's drilling rig employs RACM.</p>
overburden removal	minimize the disturbance of the land surface, employ water and/or any other suitable dust suppressant on an "as needed" basis
truck loading	minimize drop height distance, prevent haul vehicle overloading, maintain inherent moisture



	level and water, as necessary
waste disposal	minimize the disturbance of land surface, employ, on an "as needed" basis
reclamation	employ, on an "as needed" basis, water and/or any other suitable dust suppressant

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

- d. The opacity limitation established pursuant to this rule shall not apply to blasting operations per OAC rule 3745-17-07(B)(11)(b).
- c) Operational Restrictions
- (1) None.
- d) Monitoring and/or Recordkeeping Requirements
- (1) Except as otherwise provided in this section, for mineral extraction operations, the permittee shall perform inspections of such operations in accordance with the following minimum frequencies:

<u>mineral extraction operation(s)</u>	<u>minimum inspection frequency</u>
Drilling	daily
Blasting	none
Overburden removal	daily
Truck loading	daily
Waste disposal	daily
Reclamation	daily

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

- (2) The above-mentioned inspections shall be performed during representative, normal operating conditions. The purpose of these inspections is to determine whether or not it



is necessary to apply water or any other suitable dust suppressant to minimize or eliminate the visible emissions of fugitive dust.

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

- (3) The permittee may, upon receipt of written approval from the appropriate Ohio EPA District Office or local air agency, modify the above-mentioned inspection frequencies if operating experience indicates that less frequent inspections would be sufficient to ensure compliance with the above-mentioned applicable requirements.

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

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

- a. the location and color of the emissions;
- b. 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.

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

- (5) 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 drilling operations exhaust stack associated with this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed from any points of capture and/or the stack, the permittee shall also note the following in the operations log:



- a. the location and color of the emissions;
- b. the total duration of any visible emissions incident; and
- c. any corrective actions taken to eliminate the visible emissions.

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

e) Reporting Requirements

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

- a. all days during which any visible emissions of fugitive dust were observed from the egress points (i.e., blasting, overburden removal, truck loading, waste disposal, reclamation, etc.) serving this emissions unit; and
- b. 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 period.

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

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

- a. all days during which any visible particulate emissions were observed from the drilling operations associated with this emissions unit; and
- b. 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 period.

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

(3) Unless other arrangements have been approved by the Director, all notifications and reports shall be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal.

[OAC rule 3745-15-03(A)]

f) Testing Requirements

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



- a. Emission Limitation:
Visible emissions of fugitive dust shall not exceed 20% opacity as a three-minute average.

Applicable Compliance Method:

If required, compliance with the limitation for visible emissions of fugitive dust shall be determined in accordance with the procedures specified in OAC rule 3745-17-03(B)(3).

[OAC rule 3745-77-07(C)(1) and OAC rule 3745-17-03(B)(3)]

- b. Emission Limitation:
The controlled emissions from the stack shall achieve an outlet emission rate of not greater than 0.030 grain of particulate emissions per dry standard cubic foot of exhaust gases or there shall be no visible emissions from the exhaust stack.

Applicable Compliance Method:

Compliance with the requirement for no visible particulate emissions from the exhaust stack, identified in this permit, shall be determined in accordance with U.S. EPA Method 22. If opting to comply with the outlet particulate emissions rate, compliance with the 0.030 grain of particulate emissions per dry standard cubic foot of exhaust gases from the stack shall be determined in accordance with U.S. EPA Methods 1 through 5, as appropriate.

[OAC rule 3745-77-07(C)(1) and OAC rule 3745-17-03(B)(7)(a)]

- g) Miscellaneous Requirements

(1) None.



5. P004, Lime screening & briquetting - north plant

Operations, Property and/or Equipment Description:

Lime screening & briquetting

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

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-17-07(A)	Visible particulate emissions (PE) shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.
b.	OAC rule 3745-17-11(B)	See b)(2)a.
c.	OAC rule 3745-31-05(A)(3) (PTI #03-2543)	1.5 lbs PE/hr The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A)

(2) Additional Terms and Conditions

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

b. All particulate emissions from this emissions unit shall be vented to the baghouses.

c) Operational Restrictions

(1) None.

d) 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 particulate emissions from the stack(s) serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:



- a. the color of the emissions;
- b. whether the emissions are representative of normal operations;
- c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
- d. the total duration of any visible 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.

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

e) Reporting Requirements

- (1) The permittee shall submit semiannual written reports that identify:
 - a. all days during which any visible particulate emissions were observed from the stack(s) serving this emissions unit; and
 - b. any corrective actions taken to minimize or eliminate the visible particulate emissions.

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

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

- (2) Unless other arrangements have been approved by the Director, all notifications and reports shall be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal.

[OAC rule 3745-15-03(A)]

f) Testing Requirements

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



a. Emission Limitation:

Visible particulate emissions from the stack shall not exceed 20% opacity as a 6-minute average, except as specified by rule.

Applicable Compliance Method:

If required, compliance with the limitation for visible emissions shall be determined in accordance with the procedures specified in OAC rule 3745-17-03(B)(1).

[OAC rule 3745-17-03(B)(1) and OAC rule 3745-77-07(C)(1)]

b. Emission Limitation:

1.5 lbs PE/hr

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with the hourly PE limitation by emission testing conducted in accordance with Methods 1-5 of 40 CFR, Part 60, appendix A.

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

g) Miscellaneous Requirements

(1) None.



6. P018, Stone plant

Operations, Property and/or Equipment Description:

Stone processing

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

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-17-07(B)(1)	Visible fugitive particulate emissions (PE) shall not exceed 20% opacity, as a 3-minute average.
b.	OAC rule 3745-17-08(B)	Reasonably available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust See b)(2)a.

(2) Additional Terms and Conditions

a. The permittee shall employ reasonably available control measures to minimize or eliminate visible emissions of fugitive dust from the emissions unit. If the inherent moisture in the stone is not sufficient to comply with the opacity restrictions of this permit, the permittee shall apply water, or any other suitable dust suppressant, at appropriate locations on the line.

c) Operational Restrictions

(1) None.

d) Monitoring and/or Recordkeeping Requirements

(1) The permittee shall perform weekly 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., screens, conveyors, silos and feeders, etc.) serving this emissions unit. The presence or absence of any visible fugitive emissions shall be noted in an



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

- a. the location and color of the emissions;
- b. 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.

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

e) Reporting Requirements

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

- a. all days during which any visible emissions of fugitive dust were observed from the egress points (i.e., screens, conveyors, silos and feeders, etc.) serving this emissions unit; and
- b. 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 period.

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

(2) Unless other arrangements have been approved by the Director, all notifications and reports shall be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal.

[OAC rule 3745-15-03(A)]



f) Testing Requirements

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

a. Emission Limitation:

Visible emissions of fugitive dust shall not exceed 20% opacity as a three-minute average.

Applicable Compliance Method:

If required, compliance with the limitation for visible emissions of fugitive dust shall be determined in accordance with the procedures specified in OAC rule 3745-17-03(B)(3).

[OAC rule 3745-77-07(C)(1) and OAC rule 3745-17-03(B)(3)]

g) Miscellaneous Requirements

(1) None.



7. P027, Lime screening & briquetting - south plant

Operations, Property and/or Equipment Description:

Lime screening & briquetting

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

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-17-07(A)	Visible particulate emissions (PE) shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.
b.	OAC rule 3745-17-11(B)	6.16 lbs PE/hr (based on Figure II and an uncontrolled PE rate of 39.06 lbs/hr)

(2) Additional Terms and Conditions

a. All PE from this emissions unit shall be vented to the 3 baghouses

c) Operational Restrictions

(1) None.

d) 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 particulate emissions from the exhaust stack(s) serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed from any points of capture and/or the stack, the permittee shall also note the following in the operations log:

a. the color of the emissions;

b. whether the emissions are representative of normal operations;

c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;



- d. the total duration of any visible 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.

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

e) Reporting Requirements

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

- a. all days during which any visible particulate emissions were observed from the stack(s) serving this emissions unit; and
- b. any corrective actions taken to minimize or eliminate the visible particulate emissions.

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

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

- (2) Unless other arrangements have been approved by the Director, all notifications and reports shall be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal.

[OAC rule 3745-15-03(A)]

f) Testing Requirements

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

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



Applicable Compliance Method:

Compliance with the stack visible particulate emissions limitation shall be determined through visible emissions observations performed in accordance with U.S. EPA Method 9.

[OAC rule 3745-77-07(C) and OAC rule 3745-17-03(B)(1)]

- b. Emission Limitation:
6.16 lbs PE/hr

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with the hourly PE limitation by emission testing conducted in accordance with Methods 1-5 of 40 CFR, Part 60, Appendix A.

[OAC rule 3745-77-07(C)(1) and OAC rule 3745-17-03(B)(10)]

- g) Miscellaneous Requirements
(1) None.



8. P029, MgO plant dryer

Operations, Property and/or Equipment Description:

Filter cake dryer

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

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-17-07(A)	Visible particulate emissions (PE) shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.
b.	OAC rule 3745-17-11(B)	9.13 lbs PE/hr (based on Figure II and an uncontrolled PE rate of 71.79 lbs/hr)
c.	OAC rule 3745-31-05 (PTI#03-952)	See b)(2)a.

(2) Additional Terms and Conditions

a. The requirements established pursuant to this rule are equivalent to the requirements of OAC rules 3745-17-07(A) and 3745-17-11(B).

b. All PE from this emissions unit shall be vented to a baghouse.

c) Operational Restrictions

(1) None.

d) 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 particulate emissions from the exhaust stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed from any points of capture and/or the stack, the permittee shall also note the following in the operations log:



- a. the color of the emissions;
- b. whether the emissions are representative of normal operations;
- c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
- d. the total duration of any visible 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.

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

e) Reporting Requirements

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

- a. all days during which any visible particulate emissions were observed from the stack(s) serving this emissions unit; and
- b. any corrective actions taken to minimize or eliminate the visible particulate emissions.

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

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

(2) Unless other arrangements have been approved by the Director, all notifications and reports shall be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal.

[OAC rule 3745-15-03(A)]

f) Testing Requirements

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



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

Applicable Compliance Method:

Compliance with the stack visible particulate emissions limitation shall be determined through visible emissions observations performed in accordance with U.S. EPA Method 9.

[OAC rule 3745-77-07(C)(1) and OAC rule 3745-17-03(B)(1)]

- b. Emission Limitation:
9.13 lbs PE/hr

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with the hourly PE limitation by emission testing conducted in accordance with Methods 1-5 of 40 CFR, Part 60, Appendix A.

[OAC rule 3745-77-07(C)(1) and OAC rule 3745-17-03(B)(10)]

- g) Miscellaneous Requirements

- (1) None.



9. P030, MgO plant calciner

Operations, Property and/or Equipment Description:

calciner

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

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-17-07(A)	Visible particulate emissions (PE) shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.
b.	OAC rule 3745-17-11(B)	8.14 lbs PE/hr (based on Figure II and an uncontrolled PE rate of 60 lbs/hr)
c.	OAC rule 3745-31-05 (PTI#03-952)	See b)(2)a.
d.	OAC rule 3745-17-10(B)	0.02 lb PE/mmBtu of heat input (for the burning of natural gas)

(2) Additional Terms and Conditions

a. The requirements established pursuant to this rule are equivalent to the requirements of OAC rules 3745-17-07(A), 3745-17-11(B) and 3745-17-10(B).

c) Operational Restrictions

The permittee shall only burn natural gas as fuel in this emissions unit.

[OAC rule 3745-77-07(A)(1) and PTI#03-952]

d) 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 particulate emissions from the exhaust stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed from any points of capture and/or the stack, the permittee shall also note the following in the operations log:



- a. the color of the emissions;
- b. whether the emissions are representative of normal operations;
- c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
- d. the total duration of any visible 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.

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

- (2) For each day during which the permittee burns a fuel other than natural gas, the permittee shall maintain a record of the type of fuel burned in this emissions unit.

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

e) Reporting Requirements

- (1) The permittee shall submit semiannual written reports that identify:
 - a. all days during which any visible particulate emissions were observed from the stack(s) serving this emissions unit; and
 - b. any corrective actions taken to minimize or eliminate the visible particulate emissions.

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

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

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

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



- (3) Unless other arrangements have been approved by the Director, all notifications and reports shall be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal.

[OAC rule 3745-15-03(A)]

f) Testing Requirements

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

- a. Emission Limitation:

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

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with the limitation in accordance with OAC rule 3745-17-03(B)(1).

[OAC rule 3745-77-07(C)(1) and OAC rule 3745-17-03(B)(1)]

- b. Emission Limitation:

8.14 lbs PE/hr

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with the limitation in accordance with OAC rule 3745-17-03(B)(10).

[OAC rule 3745-77-07(C)(1) and OAC rule 3745-17-03(B)(10)]

- c. Emission Limitation:

0.020 pound PE/mmBtu of actual heat input

Applicable Compliance Method:

The permittee may determine compliance with this limitation by multiplying the maximum hourly natural gas consumption rate (mm cu. ft/hr) by the emission factor from AP-42, Table 1.4-2 (revised 7/98) of 1.9 lbs PE (filterable)/mm cu. ft, and then dividing by the maximum heat input capacity of the boiler (mmBtu/hr).

If required, the permittee shall demonstrate compliance with the PE limitation in accordance with OAC rule 3745-17-03(B)(9).

[OAC rule 3745-77-07(C)(1) and OAC rule 3745-17-03(B)(9)]

g) Miscellaneous Requirements

- (1) None.



10. P031, MgO plant packaging system

Operations, Property and/or Equipment Description:

MgO plant packaging system

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

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-17-07(A)	Visible particulate emissions (PE) shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.
b.	OAC rule 3745-17-11(B)	See b)(2)b.
c.	OAC rule 3745-31-05(A)(3) (PTI#03-4603)	0.030 grain PE per dry standard cubic foot (gr/dscf) of exhaust gases or no visible emissions from the exhaust stack(s) 3.2 tons PE/year The requirements of this rule also include compliance with OAC rules 3745-17-07(A) and 3745-17-11(B).

(2) Additional Terms and Conditions

a. All PE from this emissions unit shall be vented to the baghouses.

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

c) Operational Restrictions

(1) None.



d) 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 particulate emissions from the exhaust stack(s) serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed from any points of capture and/or the stack, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any visible 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.

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

e) Reporting Requirements

- (1) The permittee shall submit semiannual written reports that identify:
 - a. all days during which any visible particulate emissions were observed from the stack(s) serving this emissions unit; and
 - b. any corrective actions taken to minimize or eliminate the visible particulate emissions.

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

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



- (2) Unless other arrangements have been approved by the Director, all notifications and reports shall be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal.

[OAC rule 3745-15-03(A)]

f) Testing Requirements

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

a. Emission Limitation:

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

Applicable Compliance Method:

Compliance with the stack visible particulate emissions limitation shall be determined through visible emissions observations performed in accordance with U.S. EPA Method 9.

[OAC rule 3745-77-07(C)(1) and OAC rule 3745-17-03(B)(1)]

b. Emission Limitation:

0.030 gr/dscf of exhaust

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with the hourly limitation by emission testing conducted in accordance with Methods 1-5 of 40 CFR, Part 60, Appendix A.

[OAC rule 3745-77-07(C)(1) and PTI#03-4603]

c. Emission Limitation:

no visible emission from the exhaust stack(s)

Applicable Compliance Method:

The permittee shall demonstrate compliance with the visible PE limitation in accordance with the test method and procedures in Method 22 of 40 CFR Part 60, Appendix A.

[OAC rule 3745-77-07(C)(1) and PTI#03-4603]

d. Emission Limitation:

3.2 tons PE/year

Applicable Compliance Method:

The annual PE limitation was established by applying the emission limitation of 0.030 gr PE/dscf to a total maximum volumetric air flow (2,800 acfm) and applying the conversion factors of 7000 gr/pound, 60 minutes/hr, and 2000 lbs/ton.



Preliminary Proposed Title V Permit
MARTIN MARIETTA MAGNESIA SPECIALTIES INC.
Permit Number: P0087615
Facility ID: 0372000127
Effective Date: To be entered upon final issuance

[OAC rule 3745-77-07(C)(1) and PTI#03-4603]

- g) Miscellaneous Requirements
 - (1) None.



11. P901, DKD Loadout System - South Plant

Operations, Property and/or Equipment Description:

Dolomitic Kiln Dust Loadout System (Dry), With Baghouse. - South Plant

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

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3) (PTI 03-17122, issued 6/20/06)	2.15 tons particulate matter less than 10 microns in size (PM10)/year [see b)(2)b.] 0.03 grains PM10/dry standard cubic foot (dscf) 3.15 tons fugitive particulate emissions (PE) per year Visible particulate emissions shall not exceed 5% opacity as a 6-minute average (from system bin vent and baghouse stack) See b)(2)c.
b.	OAC rule 3745-17-07 (B)	Visible fugitive particulate emissions shall not exceed 20% opacity as a 3-minute average
c.	OAC rule 3745-17-08(B)	See b)(2)d.
d.	OAC rule 3745-17-07(A)	See b)(2)e.
e.	OAC rule 3745-17-11(B)	See b)(2)e.

(2) Additional Terms and Conditions

a. "Best Available Technology" (BAT) control requirements for this emissions unit has been determined to be the following:



- i. Use of a filter on the system bin vent that achieves a maximum outlet concentration of 0.03 grains PM10/dscf, and
 - ii. Use of baghouse on the unloading spout that achieves a maximum outlet concentration of 0.03 grains PM10/dscf.
 - b. All stack emissions of particulate matter are PM10.
 - c. The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(B).
 - d. The requirements of this rule are equivalent to or less stringent than the requirements established pursuant to OAC rule 3745-31-05(A)(3).
 - e. The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
- c) **Operational Restrictions**
- (1) The maximum annual material throughput (through the loading spout) for this emissions unit shall not exceed 63,000 tons (includes 3,000 tons of recycled overloaded quantities).

[OAC rule 3745-77-07(A)(1) and PTI 03-17122]
- d) **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 DKD loadout system. 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.

[OAC rule 3745-77-07(C)(1) and PTI # 03-17122]

- (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 (a) the baghouse stack, and (b) the bin vent filter 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.

[OAC rule 3745-77-07(C)(1) and PTI #03-17122]

- (3) The permittee shall maintain monthly records of the amount of material throughput (through the loading spout) for this emissions unit, in tons per month and total tons, to date for the calendar year (including tons of recycled overloaded quantities).

[OAC rule 3745-77-07(C)(1) and PTI #03-17122]

e) Reporting Requirements

- (1) The permittee shall submit semiannual written reports that identify:
- a. all days during which any visible fugitive particulate emissions were observed from the DKD loadout system and describe any corrective actions taken to minimize or eliminate the visible fugitive particulate emissions;
 - b. all days during which any visible particulate emissions were observed from the system bin vent filter and describe any corrective actions taken to eliminate the visible particulate emissions; and
 - c. all days during which any visible particulate emissions were observed from the baghouse serving the DKD loadout system and describe any corrective actions taken to eliminate the visible particulate emissions.

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

[OAC rule 3745-77-07(C)(1) and PTI #03-17122]

- (2) The permittee shall submit annual reports that summarize the total amount of material throughput (through the loading spout), in tons, for this emissions unit (including recycled



overloaded quantities). These reports shall be submitted by January 31 of each year and shall cover the previous calendar year.

[OAC rule 3745-77-07(C)(1) and PTI #03-17122]

- (3) Unless other arrangements have been approved by the Director, all notifications and reports shall be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal.

[OAC rule 3745-15-03(A)]

f) Testing Requirements

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

a. Emission Limitation:

0.03 grains PM10/dscf, 2.15 ton PM10/year (from baghouse stack and system bin vent filter)

Applicable Compliance Method:

The gr/dscf limitation was established in accordance with the baghouse manufacturer's guaranteed outlet concentration. If required, the permittee shall demonstrate compliance with the 0.03 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.

The annual emission limitation was established by the multiplying the maximum outlet concentration of 0.03 gr PM10/dscf, a maximum volumetric flow rate* of 1910 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.

*The total maximum volumetric air flow rate = 910 acfm from system bin vent filter + 1000 acfm from baghouse

[OAC rule 3745-77-07(C)(1) and PTI #03-17122]

b. Emission Limitation:

Visible particulate emissions shall not exceed 5% opacity as a 6-minute average (from system bin vent and baghouse stack)

Applicable Compliance Method:

Compliance with the stack visible particulate emissions limitation shall be determined through visible emissions observations performed in accordance with U.S. EPA Method 9.



[OAC rule 3745-77-07(C)(1) and PTI #03-17122]

- c. Emission Limitation:
3.15 tons fugitive PE/yr

Applicable Compliance Method:

The emission limitation was established by multiplying an emission factor of 0.10 lb PE/ton of material loaded (derived from the emissions of a similar unit), a maximum annual material throughput of 63,000 tons (includes tons of recycled overloaded quantities), and multiplying by a conversion factor of ton/2000 lbs. Therefore, provided compliance is shown with the annual material throughput restriction, compliance with the annual limitation will be assumed.

[OAC rule 3745-77-07(C)(1) and PTI #03-17122]

- d. Emission Limitation:
Visible fugitive particulate emissions shall not exceed 20% opacity as a three-minute average

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance in accordance with OAC rule 3745-17-03(B)(3).

[OAC rule 3745-77-07(C)(1) and OAC rule 3745-17-03(B)(3)]

- g) Miscellaneous Requirements
(1) None.



12. P902, Rotary lime kiln #7

Operations, Property and/or Equipment Description:

Rotary Lime Kiln no.7 with preheater, cooler and two baghouses and including limestone material handling

- a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.
 - (1) d)(9), d)(10), d)(11) and d)(12).
- b) Applicable Emissions Limitations and/or Control Requirements
 - (1) The specific operation(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures are identified below. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	40 CFR Part 63, Subpart AAAAA (63.7080 through 63.7143)	See 63.7090 0.10 lb particulate emissions (PE) per ton stone feed from kiln/cooler (kiln/cooler emissions are controlled by baghouse PS18) Visible fugitive particulate emissions shall not exceed 10% opacity as a 6-minute average from processed stone handling operations [See b)(2)h.] See b)(2)k.
b.	OAC rule 3745-31-10 through OAC rule 3745-3120 (PTI #03-17089, issued 11/13/08)	Best Available Control Technology (BACT) Requirements [See b)(2)a.] <u>Kiln/Cooler Emissions (Baghouse PS18 Stack):</u> See b)(2)a.i. and b)(2)a.ii. 0.10 lb of filterable particulate matter 10 microns or less in size (PM10) per ton stone feed [See b)(2)b.] 37.80 tons of filterable PM10/rolling 12-month period [See b)(2)b.]



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		<p>1.7 lbs sulfur dioxide (SO₂)/ton lime and 279.23 tons SO₂/rolling 12-month period</p> <p>4.1 lbs nitrogen oxides (NO_x)/ton lime and 673.43 tons NO_x/rolling 12-month period</p> <p>2.0 lbs carbon monoxide (CO)/ton lime and 328.50 tons CO/rolling 12-month period</p> <p>Visible particulate emissions shall not exceed 15% opacity as 6-minute average from PS18 baghouse stack.</p> <p><u>Product Conveying Emissions</u> (PS19 Baghouse Stack):</p> <p>See b)(2)a.iii.</p> <p>0.007 grains of filterable PM₁₀/dry standard cubic foot (dscf)</p> <p>1.23 tons of filterable PM₁₀/rolling 12-month period</p> <p>See b)(2)b.</p> <p>Visible particulate emissions shall not exceed 0% opacity as 6-minute average from PS19 product conveyor baghouse stack.</p> <p><u>Emissions from Natural Gas Combustion</u> [See b)(2)i.]</p> <p>0.002 lb filterable PM₁₀/mmBTU [See b)(2)b. and b)(2)j.]</p> <p>0.14 lb NO_x/mmBTU [See b)(2)j.]</p> <p>0.08 lb CO/mmBTU [See b)(2)j.]</p> <p><u>Fugitive Emissions</u></p> <p>1.91 tons fugitive PE/rolling 12-month period</p>



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		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.
c.	OAC rule 3745-31-05 (A)(3) (PTI #03-17089, issued 11/13/08)	10.80 lbs hydrogen chloride (HCl)/hour and 47.30 tons HCl/year [See b)(2)j.] 9.0 lbs organic compounds (OC)/hour and 39.42 tons OC/year [See b)(2)j.] 0.005 lb OC/mmBTU from natural gas combustion [See b)(2)i. and b)(2)j.] See b)(2)c.
d.	40 CFR, Part 60, Subpart HH	See b)(2)d.
e.	OAC rule 3745-17-07 (A)	See b)(2)e.
f.	OAC rule 3745-17-11(B)	See b)(2)e.
g.	OAC rule 3745-17-07 (B)(1)	See b)(2)e.
h.	OAC rule 3745-17-08 (B)	See b)(2)e.
i.	OAC rule 3745-18-06 (E)(2)	See b)(2)e.

(2) Additional Terms and Conditions

- 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 of filterable PM10/dscf.

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

- b. All emissions of particulate matter are PM10.
- 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.
- 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.
- 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.
- f. The permittee shall 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, Appendix B, Performance Specification 1. 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 maintenance activities. The plan shall describe step by step procedures for ensuring accurate operation of the continuous opacity monitoring system 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 B]
- g. The continuous opacity monitoring system consists of all the equipment used to acquire data and record opacity.

[40 CFR 60.2] and/or [40 CFR 63.2] and [Appendix B to 40 CFR Part 60]
- h. Processed stone handling operations include the #7 kiln stone bin with feed chutes into the preheater.
- i. Natural gas is a backup fuel and emissions from natural gas combustion are associated with the startup of the kiln.
- j. The short term emission limitation represents the potential to emit for this emissions unit. Therefore, no monitoring, record keeping, or reporting requirements are necessary to ensure compliance with this emission limitation.



- k. The permittee shall comply with the applicable restrictions required under 40 CFR Part 63, Subpart AAAAA (MACT for Lime Manufacturing Plants), including the following sections:

63.7090(a) and Table 1 of Subpart AAAAA of Part 63	Emission limitations
63.7090(b) and Table 2 of Subpart AAAAA of Part 63	Operating limitations
63.7100	General requirements

c) Operational Restrictions

- (1) The permittee shall only burn coal, petroleum coke and/or natural gas in this emissions unit.

[OAC rule 3745-77-07(A)(1) and PTI# 03-17089]

- (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.

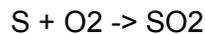
[OAC rule 3745-77-07(A)(1) and PTI# 03-17089]

- (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.

[OAC rule 3745-77-07(A)(1) and PTI# 03-17089]

- (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:



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

where,

$$63.79 \text{ lbs } SO_2/\text{hr} = \text{Emission limitation}$$

$$18,000 \text{ lbs fuel/hr} = \text{maximum fuel use}$$

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



$K = \% \text{ control efficiency for natural dry scrubbing (f)(3)}$

$(64/32) = \text{molecular weight of SO}_2 \text{ is } 64 \text{ lb/lb-mole and sulfur is } 32 \text{ lb/lb-mole}$

Solving for S

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

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

[OAC rule 3745-77-07(A)(1) and PTI# 03-17089]

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

63.7113	Monitoring installation, operation and maintenance requirements
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[40 CFR Part 63 Subpart AAAAA]

d) Monitoring and/or Recordkeeping Requirements

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

63.7113	Monitoring, installation, operation and maintenance requirements
63.7120, 63.7121 and Tables 5 and 6 of Subpart AAAAA of Part 63.	Monitoring and data collection do demonstrate continuous compliance with operating limits and periodic monitoring for compliance with opacity and visible emission limits
63.7132 and 63.7133	Recordkeeping requirements

[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.

[OAC rule 3745-77-07(C)(1) and PTI #03-17089]

- (3) 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 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 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.

[OAC rule 3745-77-07(C)(1) and PTI #03-17089]

- (4) The permittee shall maintain on-site, the document of certification received from the U.S. EPA or the Ohio EPA's Central Office verifying that the continuous opacity monitoring system has been certified to meet the requirements of 40 CFR Part 60, Appendix B, Performance Specification 1. The letter/document of certification 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) The permittee shall operate and maintain the 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 event in (d) and (e).

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

- (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.

[OAC rule 3745-77-07(C)(1) and PTI #03-17089]

- (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; and



- c. the results of the analyses for the moisture content

[OAC rule 3745-77-07(C)(1) and PTI #03-17089]

- (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.

[OAC rule 3745-77-07(C)(1) and PTI #03-17089]

- (9) The permittee shall conduct a monthly 1-minute visible emissions check of each process stone handling operation associated with this emissions unit. 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.

[OAC rule 3745-77-07(C)(1) and 40 CFR Part 63, Subpart AAAAA]

- (10) The permit to install for emission units P902(PTI 03-17089 issued November 13, 2008) was evaluated based on the actual materials and the design parameters of the emissions unit's exhaust system, as specified by the permittee in the permit to install application. The Ohio EPA's "Review of New Sources of Air Toxic Emissions" policy ("Air Toxic Policy") was applied for each pollutant emitted by these emission units using data from the permit to install application and the SCREEN 3.0 model (or other Ohio EPA approved model). The predicted 1-hour maximum ground-level concentration from the use of the SCREEN 3.0 model was compared to the Maximum Acceptable Ground-



Level Concentration (MAGLC). The following summarizes the results of the modeling for the "worst case" pollutant(s):

- a. 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

- b. 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

[PTI #03-17089]

(11) Physical changes to or changes in the method of operation of the emissions unit after its installation or modification could affect the parameters used to determine whether or not the "Air Toxic Policy" is satisfied. Consequently, prior to making a change that could impact such parameters, the permittee shall conduct an evaluation to determine that the "Air Toxic Policy" will still be satisfied. If, upon evaluation, the permittee determines that the "Air Toxic Policy" will not be satisfied, the permittee will not make the change. Changes that can affect the parameters used in applying the "Air Toxic Policy" include the following:

- a. changes in the composition of the materials used (mold release agent), or the use of new materials, that would result in the emission of a compound with a lower Threshold Limit Value (TLV), as indicated in the most recent version of the handbook entitled "American Conference of Governmental Industrial Hygienists (ACGIH)," than the lowest TLV value previously modeled;

- b. changes in the compositions of the materials, or use of new materials that would result in an increase in emissions of any pollutant with a listed TLV that was proposed in the application and modeled; and

- c. physical changes to the emissions unit or its exhaust parameters (e.g., increased/decreased exhaust flow, changes in stack height, changes in stack diameter, etc.).

[PTI #03-17089]

(12) If the permittee determines that the "Air Toxic Policy" 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 the emissions of any type of toxic air contaminant not previously emitted, and a modification of the existing permit to install will not be required, even if the toxic air contaminant emissions are greater than the de minimis level in OAC rule 3745-15-05. If the change(s) is (are) defined as a modification under other provisions of the modification definition, then the permittee shall obtain a final permit to install prior to the change.



[PTI #03-17089]

- (13) The permittee shall collect, record, and retain the following information when it conducts evaluation to determine that the changed emissions unit will still satisfy the "Air Toxic Policy:"
- a. a description of the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.)
 - b. documentation of its evaluation and determination that the changed emissions unit still satisfies the "Air Toxic Policy"; and
 - c. where computer modeling is performed, a copy of the resulting computer model runs that show the results of the application of the "Air Toxic Policy" for the change.

[PTI #03-17089]

e) 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 an exceedance of the opacity limit

[40 CFR 60.7]

- (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

These 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.

[OAC rule 3745-77-07(C)(1) and PTI #03-17089]

- (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 rule 3745-77-07(C)(1) and PTI #03-17089]

- (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 c)(4) of this permit.

[OAC rule 3745-77-07(C)(1) and PTI #03-17089]

- (5) The permittee shall with the applicable notification and reporting requirements required under 40 CFR Part 63, Subpart AAAAA, including the following sections:

63.7114(c)	Notification of compliance status
63.7130	Notification requirements
63.7131 and Table 7 of Subpart AAAAA of	Reports and submittal requirements



Part 63	
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[40 CFR Part 63 Subpart AAAAA]

- (6) The permittee shall submit semiannual written reports that identify:
- a. 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.

[OAC rule 3745-77-07(C)(1) and PTI #03-17089]

- (7) The permittee shall submit semiannual written reports that identify:
- a. 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 31 and July 31 of each year and shall cover the previous six-month periods.

[OAC rule 3745-77-07(C)(1) and PTI #03-17089]

- (8) The permittee shall submit quarterly deviation (excursion) reports that identify the following:
- a. all exceedances of the rolling, 12-month throughput restriction of 755,550 tons for limestone material handling operations; and
 - b. all exceedances of the rolling, 12-month throughput restriction of 328,500 tons for product transfer and conveying operations.

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

[OAC rule 3745-77-07(C)(1) and PTI #03-17089]

- (9) Unless other arrangements have been approved by the Director, all notifications and reports shall be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal.



[OAC rule 3745-15-03(A)]

f) Testing Requirements

- (1) The permittee shall conduct or have conducted, emission testing for this emissions unit in accordance with the following requirements:
 - a. The emission testing shall be conducted within 6 months prior to permit expiration.
 - b. 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 filterable PM₁₀.
 - c. The following methods shall be employed to demonstrate compliance with the mass emissions rates from the PS18 Baghouse Stack:
 - i. for NO_x, Methods 1 through 4 and 7 of 40 CFR, Part 60, Appendix A;
 - ii. for CO, Methods 1 through 4 and 10 of 40 CFR, Part 60, Appendix A;
 - iii. for SO₂, Methods 1 through 4 and 6 of 40 CFR, Part 60, Appendix A;
 - iv. for OC, Methods 1 through 4 and Method 18, 25 or 25A of 40 CFR, Part 60, Appendix A;
 - v. for PM, Methods 1 through 5 of 40 CFR, Part 60, Appendix A; and
 - vi. for filterable PM₁₀, Methods 201/201A of 40 CFR, Part 51, Appendix M.

Alternative U.S. EPA-approved test methods may be used with prior approval from the Ohio EPA.
 - d. In conjunction with the filterable PM₁₀ testing set forth in f)(1)c., the permittee shall perform emission testing for condensable particulate matter, using Method 202 of 40 CFR, Part 51, Appendix or an alternative U.S EPA-approved test method with prior approval from Ohio EPA. The condensable particulate matter testing will be performed for inventory purposes only and will not be used to determine compliance with any permit term or condition, including particulate emission requirements and limits.
 - e. 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.
 - f. 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 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) 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, Appendix B]

- (3) 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,

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), subtract from one (1) and multiplying by 100.



- (4) The permittee shall comply with the applicable testing requirements required under 40 CFR Part 63, Subpart AAAAA, including the following sections:

63.7111, 63.7112 and Table 4 of Subpart AAAAA of Part 63	Performance test frequency and requirements
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[40 CFR Part 63 Subpart AAAAA]

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

- a. Emission Limitation:
 0.10 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 f)(1).

[OAC rule 3745-77-07(C)(1), 40 CFR Part 63 Subpart AAAAA and PTI #03-17089]

- b. Emission Limitation:
 0.10 lb of filterable particulate matter 10 microns or less in size (PM10)/ton stone feed

Applicable Compliance Method:

Compliance with the 0.10 lb of filterable PM10/ton stone feed limitation shall be determined in accordance with the test methods and procedures specified in condition f)(1).

[OAC rule 3745-77-07(C)(1) and PTI #03-17089]

- c. Emission Limitation:
 Visible fugitive emissions shall not exceed 10% opacity as a 6-minute average from processed stone handling operations

Applicable Compliance Method:

Compliance with the applicable visible emissions limitation shall be determined 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.

[OAC rule 3745-77-07(C)(1), 40 CFR Part 63 Subpart AAAAA and PTI #03-17089]

- d. Emission Limitation:
 37.80 tons of filterable 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 of filterable 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 filterable PM10 limitation will be assumed.

[OAC rule 3745-77-07(C)(1) and PTI #03-17089]

- 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 f)(1).

[OAC rule 3745-77-07(C)(1) and PTI #03-17089]

- 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.

[OAC rule 3745-77-07(C)(1) and PTI #03-17089]

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

Applicable Compliance Method:

Compliance with the hourly OC limitation shall be determined in accordance with the test methods and procedures specified in condition f)(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.

[OAC rule 3745-77-07(C)(1) and PTI #03-17089]

- 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.

[OAC rule 3745-77-07(C)(1) and PTI #03-17089]

- i. Emission Limitation:
Visible particulate emissions shall not exceed 15% opacity as a 6-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 d)(5).

[OAC rule 3745-77-07(C)(1) and PTI #03-17089]

- j. Emission Limitation:
Visible particulate emissions shall not exceed 15% opacity as a 6-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 d)(5).

[OAC rule 3745-77-07(C)(1) and PTI #03-17089]

- k. Emissions Limitation:
0.002 lb filterable PM₁₀/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 1.9 lbs/10⁶ ft³ [from AP-42, Section 3.4 (10/96)].

If required, emission testing shall be conducted in accordance with Methods 201/201A 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.

[OAC rule 3745-77-07(C)(1) and PTI #03-17089]

- I. Emissions limitation:
0.14 lb NOx/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.

[OAC rule 3745-77-07(C)(1) and PTI #03-17089]

- 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.

[OAC rule 3745-77-07(C)(1) and PTI #03-17089]

- 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.

[OAC rule 3745-77-07(C)(1) and PTI #03-17089]



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

Applicable Compliance Method:

The 0.007 grains filterable PM10/dscf emission limitation was established by the manufacturer's guarantee. If required, emission testing shall be conducted in accordance with Methods 201/201A 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 filterable 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 shall also be demonstrated.

[OAC rule 3745-77-07(C)(1) and PTI #03-17089]

- 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 shall also be demonstrated.

[OAC rule 3745-77-07(C)(1) and PTI #03-17089]

- q. Emission Limitation:
Visible particulate emissions shall not exceed 0% opacity as a 6-minute average from PS19 product conveyor baghouse stack



Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with the stack visible particulate emissions limitation in accordance with U.S. EPA Method 9.

[OAC rule 3745-77-07(C)(1) and PTI #03-17089]

r. Emission Limitation:

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

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with the stack visible particulate emissions limitation in accordance with U.S. EPA Method 9.

[OAC rule 3745-77-07(C)(1) and PTI #03-17089]

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 d)(8).

[OAC rule 3745-77-07(C)(1) and PTI #03-17089]

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 d)(8).

[OAC rule 3745-77-07(C)(1) and PTI #03-17089]

g) Miscellaneous Requirements

- (1) None.



13. P903, North Dust Loadout

Operations, Property and/or Equipment Description:

North dust load-out system including lime product material screening, transfer, storage and loadout with two baghouses.(previously permitted as F006)

- a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.
 - (1) None.
- b) Applicable Emissions Limitations and/or Control Requirements
 - (1) The specific operation(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures are identified below. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-10 through OAC rule 3745-31-20 (PTI #03-17089, issued 11/13/08)	See b)(2)a. <u>Baghouse Stack Emissions:</u> (PS03 & PS15 Baghouse Stacks): 8.10 tons of filterable particulate matter 10 microns or less in size (PM10)/rolling 12-month period 0.01 grains of filterable PM10/dry standard cubic foot (dscf) See b)(2)b. Visible particulate emissions shall not exceed 0% opacity, as a 6-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
b.	ORC rule 3704.03(T)(4)	See b)(2)c.



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
c.	OAC rule 3745-17-07 (B)(1)	See b)(2)d.
d.	OAC rule 3745-17-07 (A)	See b)(2)d.
e.	OAC rule 3745-17-08 (B)	See b)(2)d.
f.	OAC rule 3745-17-11 (B)	See b)(2)d.

(2) Additional Terms and Conditions

- 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 grains of filterable PM10/dscf.
 - ii. mechanical enclosures for conveying equipment.
- b. All emissions of particulate matter from the baghouse are PM10.
- 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 emission limitations of 0.39 ton PE per year and 0.21 ton PM10 per year under OAC rule 3745-31-10 through 20.
- 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.

c) 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.

[OAC rule 3745-77-07(A)(1) and PTI #03-17089]

d) 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:



- 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.

[OAC rule 3745-77-07(C)(1) and PTI #03-17089]

- (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.

[OAC rule 3745-77-07(C)(1) and PTI #03-17089]

- (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.

[OAC rule 3745-77-07(C)(1) and PTI #03-17089]

e) Reporting Requirements

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



- a. 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. 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 period.

[OAC rule 3745-77-07(C)(1) and PTI #03-17089]

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

- a. all days during which any visible particulate emissions were observed from the baghouse stack(s) serving this emission unit; and
- b. any corrective actions taken 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 period.

[OAC rule 3745-77-07(C)(1) and PTI #03-17089]

- (3) The permittee shall submit deviation reports, in accordance with the Standard Terms and Conditions of this permit, that identify all exceedances of the rolling, 12-month lime load-out restriction of 256,013 tons.

[OAC rule 3745-77-07(C)(1) and PTI #03-17089]

f) Testing Requirements

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

- a. Emission Limitation:
8.10 tons of filterable 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 of filterable 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 of filterable PM10/dscf, compliance with the annual limitation shall also be demonstrated.

[OAC rule 3745-77-07(C)(1) and PTI #03-17089]



- b. Emission Limitation:
0.01 gr of filterable PM10/dscf
- Applicable Compliance Method:
If required, the permittee shall demonstrate compliance with the 0.01 gr of filterable PM10/dscf by testing in accordance with Methods 201/201A 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.
- [OAC rule 3745-77-07(C)(1) and PTI #03-17089]
- 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.
- [OAC rule 3745-77-07(C)(1) and PTI #03-17089]
- d. Emission Limitation:
Visible emissions of fugitive dust shall not exceed 20% opacity as a 3-minute average from the load-out spouts
- Applicable Compliance Method:
If required, the permittee shall demonstrate compliance with the limitation for visible emissions of fugitive dust through visible emissions observations performed in accordance U.S. EPA Method 9 and the procedures specified in OAC rule 3745-17-03(B)(3).
- [OAC rule 3745-77-07(C)(1) and PTI #03-17089]
- e. Emission Limitation:
Visible particulate emissions shall not exceed 0% opacity, as a 6-minute average from any baghouse stack
- Applicable Compliance Method:
If required, the permittee shall demonstrate compliance with the stack visible particulate emissions limitation through visible emissions observations performed in accordance with U.S. EPA Method 9.
- [OAC rule 3745-77-07(C)(1) and PTI #03-17089]



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 in d)(3).

[OAC rule 3745-77-07(C)(1) and PTI #03-17089]

g) Miscellaneous Requirements

(1) None.



14. P904, East Lime Loadout

Operations, Property and/or Equipment Description:

East lime load-out, including lime product material screening, transfer, storage and load-out with two baghouses. (previously permitted as P032)

- a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.
 - (1) None.
- b) Applicable Emissions Limitations and/or Control Requirements
 - (1) The specific operation(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures are identified below. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-10 through OAC rule 3745-31-20 (PTI #03-17089, issued 11/13/08)	See b)(2)a. <u>Baghouse Stack Emissions :</u> (PS16-new & PS16-0716 Baghouse Stacks): 3.32 tons of filterable particulate matter 10 microns or less in size (PM10)/rolling 12-month period 0.005 grains of filterable PM10 /dry standard cubic foot (dscf) See b)(2)b. Visible particulate emissions shall not exceed 0% opacity, as a 6-minute average from any baghouse stack <u>Fugitive Emissions:</u> 1.93 tons fugitive particulate emissions (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



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
b.	ORC rule 3704.03(T)(4)	See b)(2)c.
c.	OAC rule 3745-17-07 (B)(1)	See b)(2)d.
d.	OAC rule 3745-17-07 (A)	See b)(2)d.
e.	OAC rule 3745-17-08 (B)	See b)(2)d.
f.	OAC rule 3745-17-11 (B)	See b)(2)d.

(2) Additional Terms and Conditions

- 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 grainsof filterable PM10/dscf.
- b. All emissions of particulate matter from the baghouse are PM10.
- 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 emission limitations of 1.39 tons PE per year and 0.98 ton PM10 per year under OAC rule 3745-31-10 through 20.
- 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.

c) 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.
[OAC rule 3745-77-07(A)(1) and PTI #03-17089]

d) 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;
- 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.

[OAC rule 3745-77-07(C)(1) and PTI #03-17089]

- (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.

[OAC rule 3745-77-07(C)(1) and PTI #03-17089]

- (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.

[OAC rule 3745-77-07(C)(1) and PTI #03-17089]

e) Reporting Requirements

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



- a. 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. 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.

[OAC rule 3745-77-07(C)(1) and PTI #03-17089]

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

- a. 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 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.

[OAC rule 3745-77-07(C)(1) and PTI #03-17089]

- (3) The permittee shall submit deviation reports, in accordance with the Standard Terms and Conditions of this permit, that identify all exceedances of the rolling, 12-month lime load-out restriction of 600,060 tons.

[OAC rule 3745-77-07(C)(1) and PTI #03-17089]

- (4) Unless other arrangements have been approved by the Director, all notifications and reports shall be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal.

[OAC rule 3745-15-03(A)]

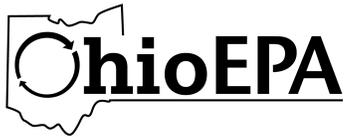
f) Testing Requirements

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

- a. Emission Limitation:
3.32 tons of filterable 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 of filterable 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 of filterable PM10/dscf, compliance with the annual emission limitation shall also be demonstrated.

[OAC rule 3745-77-07(C)(1) and PTI #03-17089]

- b. Emission Limitation:
0.005 gr of filterable PM10/dscf

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with the 0.005 gr of filterable PM10/dscf by testing in accordance with Methods 201/201A 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.

[OAC rule 3745-77-07(C)(1) and PTI #03-17089]

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

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 also be demonstrated.

[OAC rule 3745-77-07(C)(1) and PTI #03-17089]

- 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, the permittee shall demonstrate compliance with the limitation for visible emissions of fugitive dust through visible emissions observations



performed in accordance U.S. EPA Method 9 and the procedures specified in OAC rule 3745-17-03(B)(3).

[OAC rule 3745-77-07(C)(1) and PTI #03-17089]

e. Emission Limitation:

Visible particulate emissions shall not exceed 0% opacity, as a 6-minute average from any baghouse stack

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with the limitation for visible emissions of fugitive dust through visible emissions observations performed in accordance U.S. EPA Method 9 and the procedures specified in OAC rule 3745-17-03(B)(3).

[OAC rule 3745-77-07(C)(1) and PTI #03-17089]

f. Emission Limitation:

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 in d)(3).

[OAC rule 3745-77-07(C)(1) and PTI #03-17089]

g) Miscellaneous Requirements

(1) None.



15. Emissions Unit Group -Group 1: P010,P013,P014,

EU ID	Operations, Property and/or Equipment Description
P010	#5 Rotary Kiln
P013	#4 Rotary Kiln
P014	#6 Rotary Kiln

- a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only:
- (1) None.
- b) Applicable Emissions Limitations and/or Control Requirements
- (1) The specific operation(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures are identified below. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-17-11(B)	See b)(2)a.
b.	OAC rule 3745-17-07(A)	See b)(2)b.
c.	OAC rule 3745-17-07(B)(1)	Visible fugitive PE shall not exceed 20% opacity, as a three-minute average
d.	OAC rule 3745-17-08(B)	reasonably available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust See b)(2)c.
e.	40 CFR Part 52.1881(b)(8)(i)	15.42 pounds sulfur dioxide (SO ₂) per ton of actual process weight input
f.	OAC rule 3745-18-78(E)	25.0 pounds of SO ₂ /ton of product
g.	40 CFR Part 63, Subpart AAAAA (63.7080 through 63.7143) (Table 1 – Emission Limit #1) (Table 1 – Emission Limit # 7)	Particulate emissions (PE) shall not exceed 0.12 pounds per ton of stone feed Visible fugitive particulate emissions shall not exceed 10% opacity as a 6-minute average from processed stone handling operations [See b)(2)d.] See b)(2)g.
h.	40 CFR Part 63, Subpart AAAAA	Visible PE shall not exceed 15% opacity,



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
	(Table 2 – Emission Limit #1, “Operating Limits”)	as a 6-minute average from the baghouse stack.
i.	40 CFR Part 63.1-15 [40 CFR Part 63.7140]	Table 8 to Subpart AAAAA of Part 63 – Applicability of General Provisions to Subpart AAAAA of Part 63 – shows which parts of the General Provisions in 40 CFR 63.1-15 apply.

(2) Additional Terms and Conditions

- a. The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to 40 CFR Part 63, Subpart AAAAA (Table 1 – Emission Limit #1).
- b. The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to 40 CFR Part 63, Subpart AAAAA (Table 2 – Emission Limit #1).
- c. The permittee shall employ reasonably available control measures (RACM) at all times for the control of fugitive dust emissions associated with these emissions units. The following control techniques shall be implemented to reduce fugitive dust emissions:
 - i. the use of an enclosure (i.e., building enclosure) around the kiln, conveyors, bins and bucket elevators and the use of hooding to minimize or eliminate visible PE of fugitive dust at the point(s) of capture* to the extent possible with good engineering design; and
 - ii. all fugitive dust captured within the building enclosure shall be vented to baghouse #0800.

*from the kiln, conveyors, bins and bucket elevators

- d. Processed stone handling operations associated with these emission units include:

- i. For P010:

Description	ID
No. 5 kiln stone bin	99-125593
Belt conveyor	29-3807
Feed belt conveyor	29-1321



Description	ID
Feed bucket elevator	29-0792
Belt conveyor	29-0848

ii. For P013:

Description	ID
No. 4 stone bin	99-101561
Belt conveyor	29-3811
Feed belt conveyor	29-1319
Feed bucket elevator	29-5784
Belt conveyor	29-0850

iii. For P014

Description	ID
No. 6 kiln stone bin	99-0944
Belt conveyor	29-3813
Lower feed belt conveyor	29-1320
Feed bucket elevator	29-5712
Belt conveyor	29-3477

- e. The permittee shall 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, Appendix B, Performance Specification 1. 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 maintenance activities. The plan shall describe step by step procedures for ensuring accurate operation of the continuous opacity monitoring system 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 B]



- f. The continuous opacity monitoring system consists of all the equipment used to acquire data and record opacity.

[40 CFR 60.2] and/or [40 CFR 63.2] and [Appendix B to 40 CFR Part 60]

- g. The permittee shall comply with the applicable restrictions required under 40 CFR Part 63, Subpart AAAAA (MACT for Lime Manufacturing Plants), including the following sections:

63.7090(a) and Table 1 of Subpart AAAAA of Part 63	Emission limitations
63.7090(b) and Table 2 of Subpart AAAAA of Part 63	Operating limitations
63.7100	General requirements

c) Operational Restrictions

- (1) The permittee shall burn only coal, petroleum coke and/or natural gas in these emissions units.

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

- (2) The quality of coal and/or petroleum coke burned in these emissions units shall meet, on an as-received basis, a sulfur content (in percent, by weight) that is no greater than the sulfur content (in percent, by weight) measured during the most recent emission test that demonstrated that the emissions unit was in compliance with the limitations of 15.42 lbs SO₂/ton of actual process weight input and 25 lbs SO₂/ton of product, times a factor of 1.5, to reflect the fact that past tested, actual emission rates are typically, only a small fraction of the allowables.

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

- (3) The permittee shall comply with the applicable restrictions required under 40 CFR Part 63, Subpart AAAAA, including the following sections:

63.7113	Monitoring installation, operation and maintenance requirements
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[OAC rule 3745-77-07(A)(1) and 40 CFR Part 63, Subpart AAAAA]

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall perform checks at least 5 days per week, when these emissions units are 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 abnormal 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.

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

- (2) 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 the 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) and heat content (Btu/pound of coal/coke). 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.

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

- (3) The permittee shall maintain monthly records of the total quantity of coal and/or petroleum coke received and the results of the analyses for sulfur content and heat content.

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



- (4) The permittee shall maintain on-site, the document of certification received from the U.S. EPA or the Ohio EPA's Central Office verifying that the continuous opacity monitoring system has been certified to meet the requirements of 40 CFR Part 60, Appendix B, Performance Specification 1. The letter/document of certification 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) The permittee shall operate and maintain the 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 event in (d) and (e).

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

- (6) The permittee shall conduct a monthly 1-minute visible emissions check of each process stone handling operation associated with this emissions unit. 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.

[OAC rule 3745-77-07(C)(1) and 40 CFR Part 63, Subpart AAAAA]

- (7) The permittee shall comply with the applicable monitoring and record keeping requirements required under 40 CFR Part 63, Subpart AAAAA, including the following sections:

63.7113	Monitoring, installation, operation and maintenance requirements
63.7120, 63.7121 and Tables 5 and 6 of Subpart AAAAA of Part 63.	Monitoring and data collection to demonstrate continuous compliance with operating limits and periodic monitoring for compliance with opacity and visible emission limits
63.7132 and 63.7133	Recordkeeping requirements

e) Reporting Requirements

- (1) The permittee shall submit semiannual written reports that identify:
 - a. 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 these emissions units; and
 - b. 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 period.

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

- (2) 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 rule 3745-77-07(C)(1)]

- (3) The permittee shall notify the Director (the Ohio EPA, Northwest District Office) in writing of any record which shows the sulfur content (in percent, by weight) measured during the most recent emission test that demonstrated that the emissions units were in compliance with the limitations of 15.42 lbs SO₂/ton of actual process weight input and 25.0 lbs SO₂/ton of product, times a factor of 1.5, to reflect the fact that past tested, actual emission rates are typically, only a small fraction of the allowables. The notification shall include a copy of such record and shall be sent to the Director (the Ohio EPA, Northwest District Office) within 45 days after the deviation occurs.

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

- (4) 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.
 - 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. a description of any change in the equipment that comprises the continuous opacity monitoring system (COMS), including any change to the hardware, changes to the software that may affect COMS readings, and/or changes in the location of the COMS sample probe;
 - iv. the excess emissions report (EER)*, i.e., a summary of any exceedances during the calendar quarter, as specified 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.

* where no exceedance of the opacity limit has occurred or the continuous monitoring system(s) has/have not been inoperative, repaired, or adjusted during the calendar quarter, such information shall be documented in the quarterly EER report

** each downtime and malfunction event shall be reported regardless if there is an exceedance of the opacity limit

[40 CFR 60.7]

- (5) The permittee shall with the applicable notification and reporting requirements required under 40 CFR Part 63, Subpart AAAAA, including the following sections:

63.7114(c)	Notification of compliance status
63.7130	Notification requirements
63.7131 and Table 7 of Subpart AAAAA of Part 63	Reports and submittal requirements

f) Testing Requirements

- (1) The permittee shall conduct or have conducted, emission testing for these emissions units in accordance with the following requirements:
 - a. The emission testing shall be conducted within 6 months prior to permit expiration to demonstrate compliance with the allowable mass emission rate for PE, for emissions units P010, P014 and P015.
 - b. The emissions testing shall be conducted no later than 6 months after the effective date of this permit to demonstrate compliance with the allowable mass emission rates for SO2.
 - c. The following test methods shall be employed to demonstrate compliance with the following:
 - i. for particulate emissions, Methods 1-5 of 40 CFR Part 60, Appendix A; and
 - ii. for sulfur dioxide, Methods 1-4 and 6 of 40 CFR Part 60, Appendix A.



- d. 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.
- e. 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 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.

- f. 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]

- g. The permittee shall comply with the applicable testing requirements required under 40 CFR Part 63, Subpart AAAAA, including the following sections:

63.7111, 63.7112 and Table 4 of Subpart AAAAA of Part 63	Performance test frequency and requirements
--	---

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

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



Applicable Compliance Method:

If required, compliance with the stack visible particulate emissions limitation shall be demonstrated in accordance with OAC rule 3745-17-03(B)(3).

[OAC rule 3745-77-07(C)(1) and OAC rule 3745-17-03(B)(3)]

b. Emission Limitation:

15.42 pounds SO₂ per ton of actual process weight input

Applicable Compliance Method:

Compliance with the SO₂ limitation shall be demonstrated by emissions testing conducted in accordance with the test methods and procedures specified in Section f)(1) and the recordkeeping requirements in Sections d)(2) and d)(3) of this permit.

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

c. Emission Limitation:

25.0 pounds SO₂ per ton of product

Applicable Compliance Method:

Compliance with the SO₂ limitation shall be demonstrated by emissions testing conducted in accordance with the test methods and procedures specified in Section f)(1) and the recordkeeping requirements in Sections d)(2) and d)(3) of this permit.

[OAC rule 3745-77-07(C)(1) and OAC rule 3745-18-04(A)]

Emission Limitation:

PE shall not exceed 0.12 pounds per ton of stone feed.

Applicable Compliance Method:

Compliance with the 0.12 pounds per ton of stone feed limitation shall be determined in accordance with the test methods and procedures specified in Section f)(1).

[OAC rule 3745-77-07(C)(1) and 40 CFR Part 63 Subpart AAAAA]

d. Emission Limitation:

Visible fugitive particulate emissions shall not exceed 10% opacity as a 6-minute average from processed stone handling operations

Applicable Compliance Method:

Compliance with the applicable visible emissions limitation shall be determined 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.

[OAC rule 3745-77-07(C)(1) and 40 CFR Part 63 Subpart AAAAA]



Preliminary Proposed Title V Permit
MARTIN MARIETTA MAGNESIA SPECIALTIES INC.
Permit Number: P0087615
Facility ID: 0372000127
Effective Date: To be entered upon final issuance

- e. Emission Limitation:
Visible PE shall not exceed 15% opacity, as a 6-minute average from the 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 d)(5).

[OAC rule 3745-77-07(C)(1) and 40 CFR Part 63 Subpart AAAAA]

- g) Miscellaneous Requirements
 - (1) None.



16. Emissions Unit Group -Group 2: P015,P019,

EU ID	Operations, Property and/or Equipment Description
P015	#1 Lime Kiln
P019	#2 Lime Kiln

- a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only:
- (1) None.
- b) Applicable Emissions Limitations and/or Control Requirements
- (1) The specific operation(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures are identified below. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-17-11(B)	See b)(2)a.
b.	OAC rule 3745-17-07(A)	See b)(2)b.
c.	OAC rule 3745-17-07(B)(1)	Visible fugitive PE shall not exceed 20% opacity, as a three-minute average
d.	OAC rule 3745-17-08(B)	reasonably available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust See b)(2)c.
e.	OAC rule 3745-18-78(E)(3)	25.0 pounds of SO ₂ /ton of product
f.	40 CFR Part 52.1881(b)(8)(i)	15.42 pounds sulfur dioxide (SO ₂) per ton of actual process weight input
g.	40 CFR Part 63, Subpart AAAAA (63.7080 through 63.7143) (Table 1 – Emission Limit #1) (Table 1 – Emission Limit # 7)	Particulate emissions (PE) shall not exceed 0.12 pounds per ton of stone feed. Visible fugitive particulate emissions shall not exceed 10% opacity as a 6-minute average from processed stone handling operations [See b)(2)d.] See b)(2)g.
h.	40 CFR Part 63, Subpart AAAAA	Visible PE shall not exceed 15% opacity,



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
	(Table 2 – Emission Limit #1, “Operating Limits”)	as a 6-minute average from the baghouse stack.
i.	40 CFR Part 63.1-15 [40 CFR Part 63.7140]	Table 8 to Subpart AAAAA of Part 63 – Applicability of General Provisions to Subpart AAAAA of Part 63 – shows which parts of the General Provisions in 40 CFR 63.1-15 apply.

(2) Additional Terms and Conditions

- a. The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to 40 CFR Part 63, Subpart AAAAA (Table 1 – Emission Limit #1).
- b. The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to 40 CFR Part 63, Subpart AAAAA (Table 2 – Emission Limit #1).
- c. The permittee shall employ reasonably available control measures (RACM) at all times for the control of fugitive dust emissions associated with these emissions units. The following control techniques shall be implemented to reduce fugitive dust emissions:
 - i. the use of an enclosure (i.e., building enclosure) around the kiln, conveyors, bins and bucket elevators and the use of hooding to minimize or eliminate visible PE of fugitive dust at the point(s) of capture* to the extent possible with good engineering design; and
 - ii. all fugitive dust captured within the building enclosure shall be vented to:
 - (a) For emissions unit P015 - ESP #0836
 - (b) For emissions unit P019 - baghouse #1085.
- d. Processed stone handling operations associated with this emission unit include:
 - i. For emissions unit P015:

*from the kiln, conveyors and bins

Description	ID
Stone silo for #1 and #2	99-4904
No. 1 stone feed belt	29-3972
No. 1 stone feed belt (106)	29-3338



Description	ID
Vibrating screen	53-0176

ii. For emissions unit P019:

Description	ID
Stone silo for #1 and #2	99-4904
No. 1 stone feed belt	29-3972
No. 1 stone feed belt (106)	29-3338
Vibrating screen	53-0176

e. The permittee shall 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, Appendix B, Performance Specification 1. 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 maintenance activities. The plan shall describe step by step procedures for ensuring accurate operation of the continuous opacity monitoring system 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 B]

f. The continuous opacity monitoring system consists of all the equipment used to acquire data and record opacity.

[40 CFR 60.2] and/or [40 CFR 63.2] and [Appendix B to 40 CFR Part 60]

g. The permittee shall comply with the applicable restrictions required under 40 CFR Part 63, Subpart AAAAA (MACT for Lime Manufacturing Plants), including the following sections:

63.7090(a) and Table 1 of Subpart AAAAA of Part 63	Emission limitations
63.7090(b) and Table 2 of Subpart AAAAA of Part 63	Operating limitations



63.7100	General requirements
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c) **Operational Restrictions**

- (1) The permittee shall burn only coal, petroleum coke and/or natural gas in these emissions units.

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

- (2) The quality of coal and/or petroleum coke burned in these emissions units shall meet, on an as-received basis, a sulfur content (in percent, by weight) that is no greater than the sulfur content (in percent, by weight) measured during the most recent emission test that demonstrated that the emissions unit was in compliance with the limitations of 25 lbs SO₂/ton of product, times a factor of 1.5, to reflect the fact that past tested, actual emission rates are typically, only a small fraction of the allowables.

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

- (3) The permittee shall comply with the applicable restrictions required under 40 CFR Part 63, Subpart AAAAA, including the following sections:

63.7113	Monitoring installation, operation and maintenance requirements
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[OAC rule 3745-77-07(A)(1) and 40 CFR Part 63, Subpart AAAAA]

d) **Monitoring and/or Recordkeeping Requirements**

- (1) The permittee shall perform checks at least 5 days per week, when the emissions units are 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.

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

- (2) 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 the 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) and heat content (Btu/pound of coal/coke). 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.

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

- (3) The permittee shall maintain monthly records of the total quantity of coal and/or petroleum coke received and the results of the analyses for sulfur content and heat content.

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

- (4) The permittee shall maintain on-site, the document of certification received from the U.S. EPA or the Ohio EPA's Central Office verifying that the continuous opacity monitoring system has been certified to meet the requirements of 40 CFR Part 60, Appendix B, Performance Specification 1. The letter/document of certification 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, 40 CFR Part 60, Appendix B]



- (5) The permittee shall operate and maintain the 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 event in (d) and (e).

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

- (6) The permittee shall conduct a monthly 1-minute visible emissions check of each process stone handling operation associated with this emissions unit. 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.

[OAC rule 3745-77-07(C)(1) and 40 CFR Part 63, Subpart AAAAA]



- (7) The permittee shall comply with the applicable monitoring and record keeping requirements required under 40 CFR Part 63, Subpart AAAAA, including the following sections:

63.7113	Monitoring, installation, operation and maintenance requirements
63.7120, 63.7121 and Tables 5 and 6 of Subpart AAAAA of Part 63.	Monitoring and data collection do demonstrate continuous compliance with operating limits and periodic monitoring for compliance with opacity and visible emission limits
63.7132 and 63.7133	Recordkeeping requirements

[40 CFR Part 63, Subpart AAAAA]

e) Reporting Requirements

- (1) The permittee shall submit semiannual written reports that identify:
- a. 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 these emissions units; and
 - b. 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 period.

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

- (2) 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 these emissions units. Each report shall be submitted within 30 days after the deviation occurs.

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

- (3) The permittee shall notify the Director (the Ohio EPA, Northwest District Office) in writing of any record which shows the sulfur content (in percent, by weight) measured during the most recent emission test that demonstrated that the emissions units were in compliance with the limitation of 25.0 lbs SO₂/ton of product, times a factor of 1.5, to reflect the fact that past tested, actual emission rates are typically, only a small fraction of the allowables. The notification shall include a copy of such record and shall be sent to the Director (the Ohio EPA, Northwest District Office) within 45 days after the deviation occurs.

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



- (4) The permittee shall comply with the following quarterly reporting requirements for the emissions units 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.
 - 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. a description of any change in the equipment that comprises the continuous opacity monitoring system (COMS), including any change to the hardware, changes to the software that may affect COMS readings, and/or changes in the location of the COMS sample probe;
 - iv. the excess emissions report (EER)*, i.e., a summary of any exceedances during the calendar quarter, as specified 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.

* where no exceedance of the opacity limit has occurred or the continuous monitoring system(s) has/have not been inoperative, repaired, or adjusted during the calendar quarter, such information shall be documented in the quarterly EER report



** each downtime and malfunction event shall be reported regardless if there is an exceedance of the opacity limit

[40 CFR 60.7]

- (5) The permittee shall with the applicable notification and reporting requirements required under 40 CFR Part 63, Subpart AAAAA, including the following sections:

63.7114(c)	Notification of compliance status
63.7130	Notification requirements
63.7131 and Table 7 of Subpart AAAAA of Part 63	Reports and submittal requirements

[40 CFR Part 63, Subpart AAAAA]

- (6) Unless other arrangements have been approved by the Director, all notifications and reports shall be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal.

[OAC rule 3745-15-03(A)]

f) Testing Requirements

- (1) The permittee shall conduct of have conducted, emission testing for this emissions unit in accordance with the following requirements:
- a. The emission testing shall be conducted within 6 months prior to permit expiration to demonstrate compliance with the allowable mass emission rate for PE, for emissions units P015 and P019.
 - b. The emissions testing shall be conducted no later than 6 months after the effective date of this permit to demonstrate compliance with the allowable mass emission rates for SO₂, for emissions units P015 and P019.
 - c. The following test methods shall be employed to demonstrate compliance with the following:
 - i. for particulate emissions, Methods 1-5 of 40 CFR Part 60, Appendix A; and
 - ii. for sulfur dioxide, Methods 1-4 and 6 of 40 CFR Part 60, Appendix A.
 - d. The tests shall be conducted while the emissions units are operating at representative operating conditions, unless otherwise specified or approved by the Ohio EPA, NWDO.
 - e. 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 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.

- f. 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]

- g. The permittee shall comply with the applicable testing requirements required under 40 CFR Part 63, Subpart AAAAA, including the following sections:

63.7111, 63.7112 and Table 4 of Subpart AAAAA of Part 63	Performance test frequency and requirements
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[40 CFR Part 63, Subpart AAAAA]

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

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

Applicable Compliance Method:

If required, compliance with the stack visible particulate emissions limitation shall be determined in accordance with OAC rule 3745-17-03(B)(3).

[OAC rule 3745-77-07(C)(1) and OAC rule 3745-17-03(B)(3)]



- b. Emission Limitation:
25.0 pounds SO₂ per ton of product
- Applicable Compliance Method:
Compliance with the SO₂ limitation shall be demonstrated by emissions testing conducted in accordance with the test methods and procedures specified in Section f)(1) and the recordkeeping requirements in Sections d)(2) and d)(3) of this permit.
- [OAC rule 3745-77-07(C)(1) and OAC rule 3745-18-04(A)]
- Emission Limitation:
PE shall not exceed 0.12 pounds per ton of stone feed (lb/tsf).
- Applicable Compliance Method:
Compliance with the 0.12 pounds per ton of stone feed limitation shall be determined in accordance with the test methods and procedures specified in Section f(1).
- [OAC rule 3745-77-07(C)(1) and 40 CFR Part 63 Subpart AAAAA]
- c. Emission Limitation:
Visible fugitive particulate emissions shall not exceed 10% opacity as a 6-minute average from processed stone handling operations
- Applicable Compliance Method:
Compliance with the applicable visible emissions limitation shall be determined 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.
- [OAC rule 3745-77-07(C)(1) and 40 CFR Part 63 Subpart AAAAA]
- d. Emission Limitation:
Visible PE shall not exceed 15% opacity, as a 6-minute average from the 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 d)(5).
- [OAC rule 3745-77-07(C)(1) and 40 CFR Part 63 Subpart AAAAA]
- e. Emission Limitation:
15.42 pounds SO₂ per ton of actual process weight input
- Applicable Compliance Method:
Compliance with the SO₂ limitation shall be demonstrated by emissions testing conducted in accordance with the test methods and procedures specified in



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Effective Date: To be entered upon final issuance

Section f)(1) and the recordkeeping requirements in Sections d)(2) and d)(3) of this permit.

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

- g) Miscellaneous Requirements
 - (1) None.



17. Emissions Unit Group -Group 3: F003,F004,F007,

EU ID	Operations, Property and/or Equipment Description
F003	Lime transfer & storage - south plant
F004	Dust loadout system - south plant
F007	Lime loadout - west plant

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

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-17-07(B)	Visible fugitive particulate emissions (PE) shall not exceed 20% opacity, as a 3-minute average.
b.	OAC rule 3745-17-08(B)(3)	The controlled emissions from the stacks shall achieve an outlet emission rate of not greater than 0.030 grain of particulate emissions per dry standard cubic foot of exhaust gases or there shall be no visible emissions (whichever is less stringent) from the exhaust stacks. See b)(2)b.

(2) Additional Terms and Conditions

a. The following pieces of equipment associated with these emissions units are vented to the baghouse:

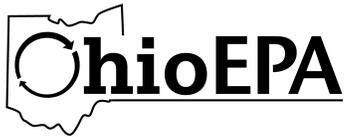
- i. For emissions unit F003: screens, conveyors, silos, bins and loadout equipment.
- ii. For emissions unit F004: conveyors, bins and loadout equipment
- iii. For emissions unit F007: conveyors, bins, silos and loadout equipment



- b. The installation and use of hoods, fans, and/or other equipment to adequately enclose, contain, capture, vent, and control fugitive dust from this emissions unit shall meet the following requirements:
 - i. the collection efficiency shall be sufficient to minimize or eliminate visible emissions of fugitive dust at the point(s) of capture to the extent possible with good engineering design; and
 - ii. the control equipment for this emissions unit shall achieve an outlet emission rate of not greater than 0.030 grain of particulate emissions per dry standard cubic foot of exhaust gases or there shall be no visible particulate emissions (whichever is less stringent) from the exhaust stack of this emissions unit.
- c) Operational Restrictions
 - (1) None.
- d) Monitoring and/or Recordkeeping Requirements
 - (1) The permittee shall perform checks at least 5 days per week, when these emissions units are 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 this emissions unit. The presence or absence of any visible fugitive emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the location and color of the emissions;
 - b. 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.

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



- (2) The permittee shall perform checks at least 5 days per week, when these emissions units are in operation and, when the weather conditions allow, for any visible particulate emissions from the exhaust stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed from any points of capture and/or the stack, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. the total duration of any visible emissions incident; and
 - c. any corrective actions taken to eliminate the visible emissions.

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

e) Reporting Requirements

- (1) The permittee shall submit semiannual written reports that identify:
 - a. 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 these emissions units; and
 - b. 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 period.

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

- (2) The permittee shall submit semiannual written reports that identify:
 - a. all days during which any visible particulate emissions were observed from the stacks serving these emission units; and
 - b. any corrective actions taken 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 period.

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

- (3) Unless other arrangements have been approved by the Director, all notifications and reports shall be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal.

[OAC rule 3745-15-03(A)]



f) Testing Requirements

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

a. Emission Limitation:

Visible emissions of fugitive dust shall not exceed 20% opacity as a three-minute average.

Applicable Compliance Method:

If required, compliance with the limitation for visible emissions of fugitive dust shall be determined in accordance with the procedures specified in OAC rule 3745-17-03(B)(3).

[OAC rule 3745-77-07(C)(1) and OAC rule 3745-17-03(B)(3)]

b. Emission Limitation:

The controlled emissions from the stack shall achieve an outlet emission rate of not greater than 0.030 grain of particulate emissions per dry standard cubic foot of exhaust gases **or** there shall be no visible emissions from the exhaust stack.

Applicable Compliance Method:

Compliance with the requirement for no visible particulate emissions from the exhaust stack, identified in this permit, shall be determined in accordance with U.S. EPA Method 22. If opting to comply with the outlet particulate emissions rate, compliance with the 0.030 grain of particulate emissions per dry standard cubic foot of exhaust gases from the stack shall be determined in accordance with U.S. EPA Methods 1 through 5, as appropriate.

[OAC rule 3745-77-07(C)(1) and OAC rule 3745-17-03(B)(7)]

g) Miscellaneous Requirements

(1) None.



18. Emissions Unit Group -Group 4: P008,P023,

EU ID	Operations, Property and/or Equipment Description
P008	Coal pulverizers - north plant
P023	Coal handling - south plant

- a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only:
 - (1) None.
- b) Applicable Emissions Limitations and/or Control Requirements
 - (1) The specific operation(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures are identified below. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-17-07(A)	Visible particulate emissions (PE) shall not exceed 20% opacity, as a 6 minute average, except as provided by rule.
b.	OAC rule 3745-17-11(B)	See b)(2)b.
c.	OAC rule 3745-17-07(B)	Visible fugitive PE shall not exceed 20% opacity, as a 3-minute average
d.	OAC rule 3745-17-08(B)	reasonable available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust See b)(2)a.
e.	OAC rule 3745-31-05 (PTI #03-931, for emissions unit P023)	See b)(2)c.

- (2) Additional Terms and Conditions
 - a. The permittee shall employ reasonably available control measures (RACM) at all times for the control of fugitive dust emissions associated with this emissions unit. The following control techniques shall be implemented to reduce fugitive dust emissions:
 - i. the use of an enclosure (i.e., building enclosure) around the crusher, conveyors, silos, bins and bucket elevators and the use of hooding to minimize or eliminate visible PE of fugitive dust at the point(s) of capture* to the extent possible with good engineering design; and
 - ii. all fugitive dust captured within the building enclosure shall be vented to:



- (a) For emissions unit P008, baghouse #0715
- (b) For emissions unit P023, baghouse #0839

*from the crusher, conveyors, silos, bins and bucket elevators – P008 and
*from the crushers, conveyors and bins – P023

- b. The uncontrolled mass rate of particulate emissions from this emissions unit is less than 10 pounds per hour. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(a)(ii), Figure II of OAC rule 3745-17-11 does not apply. In addition, based on Table I of OAC rule 3745-17-11, the allowable particulate emission limitation is greater than 10 pounds per hour. Therefore, to ensure that Figure II will not be applicable, the particulate emissions are limited to less than 10 pounds per hour.
- c. The requirements established pursuant to this rule are equivalent to the requirements of OAC rule 3745-17-07(A), 3745-17-07(B) and 3745-17-08(B).

c) Operational Restrictions

- (1) None.

d) 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 this emissions unit. The presence or absence of any visible fugitive emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the location and color of the emissions;
 - b. 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.

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

- (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 stack(s) serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
- a. the color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any visible 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.

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

e) Reporting Requirements

- (1) The permittee shall submit semiannual written reports that identify:
- a. all days during which any visible particulate emissions were observed from the stack(s) serving this emissions unit; and
 - b. any corrective actions taken to minimize or eliminate the visible particulate emissions.

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

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



- (2) The permittee shall submit semiannual written reports that identify:
 - a. 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. 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 period.

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

- (3) Unless other arrangements have been approved by the Director, all notifications and reports shall be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal.

[OAC rule 3745-15-03(A)]

f) Testing Requirements

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

- a. Emission Limitation:

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

Applicable Compliance Method:

If required, compliance shall be demonstrated in accordance with OAC rule 3745-17-03(B)(1).

[OAC rule 3745-77-07(C)(1) and OAC rule 3745-17-03(B)(1)]

- b. Emission Limitation:

10.0 lbs PE/hr

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with the hourly PE limitation by emission testing conducted in accordance with Methods 1-5 of 40 CFR, Part 60, Appendix A.

[OAC rule 3745-77-07(C)(1) and OAC rule 3745-17-03(B)(10)]

- c. Emission Limitation:

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



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Applicable Compliance Method:

If required, compliance with the limitation for visible emissions of fugitive dust shall be determined in accordance with the procedures specified in OAC rule 3745-17-03(B)(3).

[OAC rule 3745-77-07(C)(1) and OAC rule 3745-17-03(B)(3)]

g) Miscellaneous Requirements

(1) None.



19. Emissions Unit Group -Group 5: P108,P109,

EU ID	Operations, Property and/or Equipment Description
P108	#1 kiln engine
P109	#2 kiln engine

- a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.
- (1) None.
- b) Applicable Emissions Limitations and/or Control Requirements
- (1) The specific operation(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures are identified below. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-17-07(A)(1)	Visible emissions of particulate emissions (PE) shall not exceed 20% opacity as a 6-minute average, except as specified by the rule.
b.	OAC rule 3745-17-11(B)(5)(a)	PE shall not exceed 0.310 pound per mmBtu of actual heat input.
c.	OAC rule 3745-18-06(G)	See b)(2)a.
d.	OAC rule 3745-110-03(F)	See b)(2)b.
e.	40 CFR Part 60, Subpart IIII	Exempt [see b)(2)c.]
f.	40 CFR Part 63, Subpart ZZZZ (40 CFR Part 63.6580 – 63.6675) [In accordance with NESHAP/MACT 40 CFR Part 63.6590(a)(1)(ii), this affected source includes an existing RICE with a site rating of less than or equal to 500 brake HP. A stationary RICE located at a major source of HAP emissions is existing if the permittee commenced construction of the stationary RICE before June 12, 2006.]	See b)(2)d. and b)(2)e.
g.	40 CFR Part 63.1-15 (40 CFR 63.6665)	Table 8 to Subpart ZZZZ of 40 CFR 63 – Applicability of General Provisions to Subpart ZZZZ shows which parts of the General Provisions in 40 CFR 63.1-15 apply.



(2) Additional Terms and Conditions

- a. This emissions unit is exempt from OAC rule 3745-18-06 pursuant to OAC rule 3745-18-06(B).
- b. This emissions unit is exempt from OAC rule 3745-110-03(F) pursuant to OAC rule 3745-110-03(J)(3).
- c. Emissions units P108 was constructed prior to July 11, 2005, and are therefore, not applicable to the requirements of 40 CFR Part 60, Subpart IIII.
- d. The permittee must comply with the applicable requirements of this rule no later than May 3, 2013.
- e. In accordance with 40 CFR 63.6602, the permittee must comply with the following requirements of Table 2c:
 - i. Change oil and filter every 1,440 hours of operation or annually, whichever comes first;
 - ii. Inspect air cleaner every 1,440 hours of operation or annually, whichever comes first; and
 - iii. Inspect all hoses and belts every 1,440 hours of operation or annually, whichever comes first, and replace as necessary.

There are no numerical emission limitations established in Table 2c, therefore, there are no associated performance testing requirements in this subpart.

- f. The following term and condition addresses the requirements for replacing the emissions unit (P108 or P109) due to unforeseen circumstances (i.e. catastrophic failure) which result in the existing engine being inoperable:
 - i. The replacement engine must be the following:

Manufacturer	Ford 3.3L (incline 6)
Engine Size	200 CID
Serial No.	15910
Type	Gasoline
BHP (intermittent)	53BHP

- ii. The permittee shall notify the Northwest District Office of the Ohio EPA when an engine replacement is necessary. This notification may be verbally or in writing and must be within five days of the determination



that an engine replacement is necessary due to the inoperative state of the existing engine;

- iii. The permittee shall submit the written notification requested in Section e)(4);
- iv. The replacement engine must comply with all the terms and conditions of this permit;
- v. The replacement engine was constructed prior to July 11, 2005, and are therefore, not applicable to the requirements of 40 CFR Part 60, Subpart IIII.

c) Operational Restrictions

- (1) The permittee shall only burn gasoline fuel in this emissions unit.

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

- (2) In accordance with 40 CFR 63.6625(h), the permittee must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the emission standards applicable to all times other than startup in Tables 1a, 2a, 2c, and 2d to this subpart apply.

[OAC rule 3745-77-07(A)(1) and 40 CFR Part 63, Subpart ZZZZ]

d) Monitoring and/or Recordkeeping Requirements

- (1) For each day during which the permittee burns a fuel other than specified in the application, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

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

- (2) Per 63.6625(e), for an existing stationary RICE with a site rating of less than 100 HP located at a major source of HAP emissions, the permittee must operate and maintain the stationary RICE according to the manufacturer's emission-related written instructions or develop your own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions.

[OAC rule 3745-77-07(C)(1) and 40 CFR Part 63, Subpart ZZZZ]

- (3) Per 63.6625(i), if the permittee owns or operates a stationary CI engine subject to work, operation or management practices in items 1 or 2 of Table 2c to this subpart, the permittee has the option of utilizing an oil analysis program in order to extend the specified oil change requirement in Table 2c to this subpart. The oil analysis must be performed at the same frequency specified for changing the oil in Table 2c or 2d to this subpart. The analysis program must at a minimum analyze the following three parameters: Total Base Number, viscosity, and percent water content. The condemning



limits for these parameters are as follows: Total Base Number is less than 30 percent of the Total Base Number of the oil when new; viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or percent water content (by volume) is greater than 0.5. If all of these condemning limits are not exceeded, the engine owner or operator is not required to change the oil. If any of the limits are exceeded, the engine owner or operator must change the oil within 2 days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the engine owner or operator must change the oil within 2 days or before commencing operation, whichever is later. The owner or operator must keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. The analysis program must be part of the maintenance plan for the engine.

[OAC rule 3745-77-07(C)(1) and 40 CFR Part 63, Subpart ZZZZ]

- (4) The permittee must comply with the following applicable sections to 63.6635:
- a. 63.6635(a): if the permittee must comply with emission and operating limitations; the permittee must monitor and collect data according to this section.
 - b. 63.6635(b): except for monitor malfunctions, associated repairs, required performance evaluations, and required quality assurance or control activities, the permittee must monitor continuously at all times that the stationary RICE is operating. A monitoring malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring to provide valid data. Monitoring failures that are caused in part by poor maintenance or careless operation are not malfunctions.
 - c. 63.6635(c): the permittee may not use data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities in data averages and calculations used to report emission or operating levels. The permittee must, however, use all the valid data collected during all other periods.

[OAC rule 3745-77-07(C)(1) and 40 CFR Part 63, Subpart ZZZZ]

- (5) Per 63.6640, the permittee must demonstrate continuous compliance with each emission limitation and operating limitation in Tables 1a and 1b, Tables 2a and 2b, Table 2c and Table 2d to this subpart that apply according to methods specified in Table 6 to this subpart.
- a. The permittee must comply with the work or management practices identified in #9 of Table 6 to this subpart.

[OAC rule 3745-77-07(C)(1) and 40 CFR Part 63, Subpart ZZZZ]

- (6) Per 63.6655(a), the permittee must keep the records described in paragraphs (a)(1) through (a)(5), (b)(1) through (b)(3) and (c) of this section.

[OAC rule 3745-77-07(C)(1) and 40 CFR Part 63, Subpart ZZZZ]



- (7) Per 63.6655(d), the permittee must keep the records required in Table 6 (#9) of this subpart to show continuous compliance with each emission or operating limitation that apply.

[OAC rule 3745-77-07(C)(1) and 40 CFR Part 63, Subpart ZZZZ]

- (8) Per 63.6655(e), the permittee must keep records of maintenance conducted on stationary RICE in order to demonstrate that it was operated and maintained according to permittee's own maintenance plan.

[OAC rule 3745-77-07(C)(1) and 40 CFR Part 63, Subpart ZZZZ]

- (9) Per § 63.6660, the permittee must maintain applicable records required by Part 63, Subpart ZZZZ, in the form and time duration, as specified below:

- a. Records must be in a form suitable and readily available for expeditious review according to §63.10(b)(1).
- b. As specified in §63.10(b)(1), each record must be kept for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.
- c. Each record must be readily accessible in hard copy or electronic form for at least 5 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to §63.10(b)(1).

[OAC rule 3745-77-07(C)(1) and 40 CFR Part 63, Subpart ZZZZ]

e) Reporting Requirements

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

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

- (2) Per 63.6640(b), the permittee must report each instance when each emission limitation or operating limitation in Tables 1a and 1b, Tables 2a and 2b, Table 2c, and Table 2d to this subpart that are applicable were not met. These instances are deviations from the emission and operating limitations in this subpart. These deviations must be reported according to the requirements in 63.6650.

[OAC rule 3745-77-07(C)(1) and 40 CFR Part 63, Subpart ZZZZ]

- (3) Per 63.6640(e), the permittee must report each instance the requirements in Table 8 to this subpart that apply were not met.

[OAC rule 3745-77-07(C)(1) and 40 CFR Part 63, Subpart ZZZZ]



- (4) Per 63.6645(a)(5), the requirements of 63.6645(a) do not apply if you own or operate an existing stationary RICE less than 100 HP that is not subject to any numerical emission standards.

[OAC rule 3745-77-07(C)(1) and 40 CFR Part 63, Subpart ZZZZ]

- (5) Per 63.6650(d), for each deviation from an emission or operating limitation that occurs for a stationary RICE where a CMS is not used to comply with the emission or operating limitations in this subpart, the Compliance report must contain the information in paragraphs (c)(1) through (4) of this section and the information in paragraphs (d)(1) and (2) of this section.

[OAC rule 3745-77-07(C)(1) and 40 CFR Part 63, Subpart ZZZZ]

- (6) Per 63.6650(f), each affected source that has obtained a Title V operating permit pursuant to 40 CFR part 70 or 71 must report all deviations as defined in this subpart in the semiannual monitoring report required by 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A).

[OAC rule 3745-77-07(C)(1) and 40 CFR Part 63, Subpart ZZZZ]

- (7) Unless other arrangements have been approved by the Director, all notifications and reports shall be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal.

[OAC rule 3745-15-03(A)]

f) Testing Requirements

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

a. Emission Limitation:

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

Applicable Compliance Method:

Compliance with the stack visible particulate emissions limitation shall be determined through visible emissions observations performed in accordance with OAC rule 3745-17-03(B)(1).

[OAC rule 3745-77-07(C)(1) and OAC rule 3745-17-03(B)(1)]

b. Emission Limitation:

PE shall not exceed 0.310 pound per mmBtu of actual heat input.

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance by testing in accordance with OAC rule 3745-17-03(B)(10).



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Permit Number: P0087615
Facility ID: 0372000127
Effective Date: To be entered upon final issuance

[OAC rule 3745-77-07(C)(1) and OAC rule 3745-17-03(B)(10)]

- g) Miscellaneous Requirements
 - (1) None.



20. Emissions Unit Group -Group 6: P110,P111,P112,

EU ID	Operations, Property and/or Equipment Description
P110	#4 Kiln engine
P111	#5 Kiln engine
P112	#6 Kiln engine

- a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only:
- (1) None.
- b) Applicable Emissions Limitations and/or Control Requirements
- (1) The specific operation(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures are identified below. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3) (PTI P0111571, issued 10/19/12)	Nitrogen oxide emissions shall not exceed 2.59 lbs/hr and 11.34 tons/year Carbon monoxide emissions shall not exceed 0.56 lbs/hr and 2.44 tons/year See b)(2)a. and b)(2)h.
b.	OAC rule 3745-17-07(A)(1)	Visible emissions of particulate emissions (PE) shall not exceed 20% opacity as a 6-minute average, except as specified by the rule.
c.	OAC rule 3745-17-11(B)(5)(a)	PE shall not exceed 0.310 pound per mmBtu of actual heat input.
d.	OAC rule 3745-18-06(G)	See b)(2)b.
e.	OAC rule 3745-110-03(F)	See b)(2)c.
f.	40 CFR Part 60, Subpart IIII	Exempt [see b)(2)d.]
g.	40 CFR Part 63, Subpart ZZZZ (40 CFR Part 63.6580 – 63.6675) [In accordance with NESHAP/MACT 40 CFR Part 63.6590(a)(1)(ii), this affected source includes an existing RICE with a site rating of less than or equal to 500 brake HP. A stationary RICE located at a major source of HAP emissions is existing	See b)(2)e. and b)(2)f.



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
	if the permittee commenced construction of the stationary RICE before June 12, 2006.]	
h.	40 CFR Part 63.1-15 (40 CFR 63.6665)	Table 8 to Subpart ZZZZ of 40 CFR 63 – Applicability of General Provisions to Subpart ZZZZ shows which parts of the General Provisions in 40 CFR 63.1-15 apply.

(2) Additional Terms and Conditions

- a. The requirements of this rule also include compliance with OAC rules 3745-17-07(A)(1), 17-11(B)(5)(a), and 40 CFR Part 63, Subpart ZZZZ.
- b. This emissions unit is exempt from OAC rule 3745-18-06 pursuant to OAC rule 3745-18-06(B).
- c. This emissions unit is exempt from OAC rule 3745-110-03(F) pursuant to OAC rule 3745-110-03(J)(3).
- d. Emissions units P110 was constructed prior to July 11, 2005, and are therefore, not applicable to the requirements of 40 CFR Part 60, Subpart IIII.
- e. The permittee must comply with the applicable requirements of this rule no later than May 3, 2013.
- f. In accordance with 40 CFR 63.6602, the permittee must comply with the following requirements of Table 2c:
 - i. Change oil and filter every 1,000 hours of operation or annually, whichever comes first;
 - ii. Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first; and
 - iii. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.

There are no numerical emission limitations established in Table 2c, therefore, there are no associated performance testing requirements in this subpart.

- g. The following term and condition addresses the requirements for replacing the emissions unit (P110, P111 or P112) due to unforeseen circumstances (i.e. catastrophic failure) which result in the existing engine being inoperable:



- i. The replacement engine must be a Detroit Diesel, Model No: D704TE2 (S/N: 4V5XL02.8R6V) with a rated capacity of 0.548 mmBtu/hr;
 - ii. The permittee shall notify the Northwest District Office of the Ohio EPA when an engine replacement is necessary. This notification may be verbally or in writing and must be within five days of the determination that an engine replacement is necessary due to the inoperative state of the existing engine;
 - iii. The permittee shall submit the written notification requested in Section e)(4);
 - iv. The replacement engine must comply with all the terms and conditions of this permit;
 - v. The replacement engine was constructed prior to July 11, 2005, and are therefore, not applicable to the requirements of 40 CFR Part 60, Subpart IIII.
- h. Emissions of volatile organic compounds (VOC) and sulfur dioxide (SO₂) are negligible and therefore, are not included in this permit.
- c) Operational Restrictions
- (1) The permittee shall only burn diesel fuel in this emissions unit.
[OAC rule 3745-77-07(A)(1) and PTI P0111571]
 - (2) In accordance with 40 CFR 63.6625(h), the permittee must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the emission standards applicable to all times other than startup in Tables 1a, 2a, 2c, and 2d to this subpart apply.
[OAC rule 3745-77-07(A)(1) and PTI P0111571 and 40 CFR Part 63, Subpart ZZZZ]
- d) Monitoring and/or Recordkeeping Requirements
- (1) For each day during which the permittee burns a fuel other than specified in the application, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
[OAC rule 3745-77-07(C)(1) and PTI P0111571]
 - (2) Per 63.6625(e), for an existing stationary RICE with a site rating of less than 100 HP located at a major source of HAP emissions, the permittee must operate and maintain the stationary RICE according to the manufacturer's emission-related written instructions or develop your own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions.



[OAC rule 3745-77-07(C)(1) and PTI P0111571 and 40 CFR Part 63, Subpart ZZZZ]

- (3) Per 63.6625(i), if the permittee owns or operates a stationary CI engine subject to work, operation or management practices in items 1 or 2 of Table 2c to this subpart, the permittee has the option of utilizing an oil analysis program in order to extend the specified oil change requirement in Table 2c to this subpart. The oil analysis must be performed at the same frequency specified for changing the oil in Table 2c or 2d to this subpart. The analysis program must at a minimum analyze the following three parameters: Total Base Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Base Number is less than 30 percent of the Total Base Number of the oil when new; viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or percent water content (by volume) is greater than 0.5. If all of these condemning limits are not exceeded, the engine owner or operator is not required to change the oil. If any of the limits are exceeded, the engine owner or operator must change the oil within 2 days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the engine owner or operator must change the oil within 2 days or before commencing operation, whichever is later. The owner or operator must keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. The analysis program must be part of the maintenance plan for the engine.

[OAC rule 3745-77-07(C)(1) and PTI P0111571 and 40 CFR Part 63, Subpart ZZZZ]

- (4) The permittee must comply with the following applicable sections to 63.6635:
- a. 63.6635(a): if the permittee must comply with emission and operating limitations; the permittee must monitor and collect data according to this section.
 - b. 63.6635(b): except for monitor malfunctions, associated repairs, required performance evaluations, and required quality assurance or control activities, the permittee must monitor continuously at all times that the stationary RICE is operating. A monitoring malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring to provide valid data. Monitoring failures that are caused in part by poor maintenance or careless operation are not malfunctions.
 - c. 63.6635(c): the permittee may not use data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities in data averages and calculations used to report emission or operating levels. The permittee must, however, use all the valid data collected during all other periods.

[OAC rule 3745-77-07(C)(1) and PTI P0111571 and 40 CFR Part 63, Subpart ZZZZ]

- (5) Per 63.6640, the permittee must demonstrate continuous compliance with each emission limitation and operating limitation in Tables 1a and 1b, Tables 2a and 2b, Table 2c and Table 2d to this subpart that apply according to methods specified in Table 6 to this subpart.



- a. The permittee must comply with the work or management practices identified in #9 of Table 6 to this subpart.

[OAC rule 3745-77-07(C)(1) and PTI P0111571 and 40 CFR Part 63, Subpart ZZZZ]

- (6) Per 63.6655(a), the permittee must keep the records described in paragraphs (a)(1) through (a)(5), (b)(1) through (b)(3) and (c) of this section.

[OAC rule 3745-77-07(C)(1) and PTI P0111571 and 40 CFR Part 63, Subpart ZZZZ]

- (7) Per 63.6655(d), the permittee must keep the records required in Table 6 (#9) of this subpart to show continuous compliance with each emission or operating limitation that apply.

[OAC rule 3745-77-07(C)(1) and PTI P0111571 and 40 CFR Part 63, Subpart ZZZZ]

- (8) Per 63.6655(e), the permittee must keep records of maintenance conducted on stationary RICE in order to demonstrate that it was operated and maintained according to permittee's own maintenance plan.

[OAC rule 3745-77-07(C)(1) and PTI P0111571 and 40 CFR Part 63, Subpart ZZZZ]

- (9) Per § 63.6660, the permittee must maintain applicable records required by Part 63, Subpart ZZZZ, in the form and time duration, as specified below:

- a. Records must be in a form suitable and readily available for expeditious review according to §63.10(b)(1).
- b. As specified in §63.10(b)(1), each record must be kept for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.
- c. Each record must be readily accessible in hard copy or electronic form for at least 5 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to §63.10(b)(1).

[OAC rule 3745-77-07(C)(1) and PTI P0111571 and 40 CFR Part 63, Subpart ZZZZ]

e) Reporting Requirements

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

[OAC rule 3745-77-07(C)(1) and PTI P0111571]

- (2) Per 63.6640(b), the permittee must report each instance when each emission limitation or operating limitation in Tables 1a and 1b, Tables 2a and 2b, Table 2c, and Table 2d to this subpart that are applicable were not met. These instances are deviations from the emission and operating limitations in this subpart. These deviations must be reported according to the requirements in 63.6650.



[OAC rule 3745-77-07(C)(1) and PTI P0111571 and 40 CFR Part 63, Subpart ZZZZ]

- (3) Per 63.6640(e), the permittee must report each instance the requirements in Table 8 to this subpart that apply were not met.

[OAC rule 3745-77-07(C)(1) and PTI P0111571 and 40 CFR Part 63, Subpart ZZZZ]

- (4) Per 63.6645(a)(5), the requirements of 63.6645(a) do not apply if you own or operate an existing stationary RICE less than 100 HP that is not subject to any numerical emission standards.

[OAC rule 3745-77-07(C)(1) and PTI P0111571 and 40 CFR Part 63, Subpart ZZZZ]

- (5) Per 63.6650(d), for each deviation from an emission or operating limitation that occurs for a stationary RICE where a CMS is not used to comply with the emission or operating limitations in this subpart, the Compliance report must contain the information in paragraphs (c)(1) through (4) of this section and the information in paragraphs (d)(1) and (2) of this section.

[OAC rule 3745-77-07(C)(1) and PTI P0111571 and 40 CFR Part 63, Subpart ZZZZ]

- (6) Per 63.6650(f), each affected source that has obtained a Title V operating permit pursuant to 40 CFR part 70 or 71 must report all deviations as defined in this subpart in the semiannual monitoring report required by 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A).

[OAC rule 3745-77-07(C)(1) and PTI P0111571 and 40 CFR Part 63, Subpart ZZZZ]

- (7) In the event of unforeseen circumstances (i.e. catastrophic failure) which results in the existing engine being inoperable, the permittee must submit a written statement to the Northwest District Office of the OHIO EPA. The statement must be submitted within 30 days of the installation of the replacement engine and shall include the following information:

- a. The manufacture date for the replacement engine;
- b. The manufacturer, model number and serial number for the replacement engine;
- c. The installation and startup dates for the replacement engine; and
- d. An affirmation from the permittee, that the replacement engine will be operated in compliance with the terms and conditions of this permit.

[OAC rule 3745-77-07(C)(1) and PTI P0111571 and 40 CFR Part 63, Subpart ZZZZ]

- (8) Unless other arrangements have been approved by the Director, all notifications and reports shall be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal.

[OAC rule 3745-15-03(A)]



f) Testing Requirements

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

a. Emission Limitation:

NOx emissions shall not exceed 2.59 lbs/hr and 11.34 tons/year

Applicable Compliance Method:

The hourly emission limitation represents the potential to emit* for this emissions unit. Therefore, no hourly recordkeeping, reporting, or compliance method calculations are required to demonstrate compliance with this limitation.

*Potential to emit for this emissions unit was established by multiplying the maximum fuel input rate of 0.587 mmBtu/hr by an emission factor of 4.41 lbs/mmBtu [from AP-42, Section 3.3 (10/96)].

The annual emission limitation was established by multiplying the hourly emission rate by 8760 hours/year and dividing by 2000 lbs/ton. Therefore, provided compliance is shown with the hourly emission limitation, compliance with the annual emission limitation shall also be demonstrated.

If required, the permittee shall demonstrate compliance with the hourly emission limitation by testing in accordance with Methods 1 - 4 and 7 of 40 CFR Part 60, Appendix A.

[OAC rule 3745-77-07(C)(1) and PTI P0111571]

b. Emission Limitation:

CO emissions shall not exceed 0.56 lb/hr and 2.44 tons/year

Applicable Compliance Method:

The hourly emission limitation represents the potential to emit* for this emissions unit. Therefore no hourly recordkeeping, reporting, or compliance method calculations are required to demonstrate compliance with this limitation.

*Potential to emit for this emissions unit was established by multiplying the maximum fuel input rate of 0.587 mmBtu/hr by an emission factor of 0.95 lbs/mmBtu [from AP-42, Section 3.3 (10/96)].

The annual emission limitation was established by multiplying the hourly emission rate by 8760 hours/year and dividing by 2000 lbs/ton. Therefore, provided compliance is shown with the hourly emission limitation, compliance with the annual emission limitation shall also be demonstrated.

If required, the permittee shall demonstrate compliance with the hourly emission limitation by testing in accordance with Methods 1 - 4 and 10 of 40 CFR Part 60, Appendix A.



[OAC rule 3745-77-07(C)(1) and PTI P0111571]

c. Emission Limitation:

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

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance in accordance with OAC rule 3745-17-03(B)(1).

[OAC rule 3745-77-07(C)(1), OAC rule 3745-17-03(B)(1) and PTI P0111571]

d. Emission Limitation:

PE shall not exceed 0.310 pound per mmBtu of actual heat input.

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance in accordance with OAC rule 3745-17-03(B)(10).

[OAC rule 3745-77-07(C)(1), OAC rule 3745-17-03(B)(10) and PTI P0111571]

g) Miscellaneous Requirements

(1) None.