



State of Ohio Environmental Protection Agency

STREET ADDRESS:

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50 W. Town St., Suite 700
Columbus, Ohio 43215

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

7/17/2009

Certified Mail

R. Mapes
National Lime & Stone Company
1331 Broad Avenue
Suite 100
Findlay, OH 45840

RE: FINAL AIR POLLUTION PERMIT-TO-INSTALL
Facility ID: 0317010115
Permit Number: P0104828
Permit Type: OAC Chapter 3745-31 Modification
County: Crawford

No	TOXIC REVIEW
No	PSD
No	SYNTHETIC MINOR
No	CEMS
No	MACT
Yes	NSPS
No	NESHAPS
No	NETTING
No	MAJOR NON-ATTAINMENT
No	MODELING SUBMITTED

Dear Permit Holder:

Enclosed please find a final Air Pollution Permit-to-Install (PTI) which will allow you to install or modify the described emissions unit(s) in a manner indicated in the permit. Because this permit contains several conditions and restrictions, we urge you to read it carefully.

The issuance of this PTI is a final action of the Director and may be appealed to the Environmental Review Appeals Commission ("ERAC") under Section 3745.04 of the Ohio Revised Code. The appeal must be in writing and describe the action complained of and the grounds for the appeal. The appeal must be filed with the ERAC within thirty (30) days after notice of the Director's action. A filing fee of \$70.00 must be submitted to the ERAC with the appeal, although the ERAC, has discretion to reduce the amount of the filing fee if you can demonstrate (by affidavit) that payment of the full amount of the fee would cause extreme hardship. If you file an appeal of this action, you must notify Ohio EPA of the filing of the appeal (by providing a copy to the Director) within three (3) days of filing your appeal with the ERAC. Ohio EPA requests that a copy of the appeal also be provided to the Ohio Attorney General's Office, Environmental Enforcement Section. An appeal may be filed with the ERAC at the following address:

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

The Ohio EPA is encouraging companies to investigate pollution prevention and energy conservation. Not only will this reduce pollution and energy consumption, but it can also save you money. If you would like to learn ways you can save money while protecting the environment, please contact our Office of Compliance Assistance and Pollution Prevention at (614) 644-3469. If you have any questions regarding this permit, please contact the Ohio EPA DAPC, Northwest District Office. This permit has been posted to the Division of Air Pollution Control (DAPC) Web page <http://www.epa.state.oh.us/dapc>.

Sincerely,

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

Cc: U.S. EPA Region 5 Via E-Mail Notification
Ohio EPA DAPC, Northwest District Office

Ted Strickland, Governor
Lee Fisher, Lieutenant Governor
Chris Korleski, Director



State of Ohio Environmental Protection Agency
Division of Air Pollution Control

FINAL

Air Pollution Permit-to-Install
for
National Lime & Stone Company

Facility ID: 0317010115
Permit Number: P0104828
Permit Type: OAC Chapter 3745-31 Modification
Issued: 7/17/2009
Effective: 7/17/2009



State of Ohio Environmental Protection Agency
Division of Air Pollution Control

Air Pollution Permit-to-Install
for
National Lime & Stone Company

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State of Ohio Environmental Protection Agency
Division of Air Pollution Control

Final Permit-to-Install
Permit Number: P0104828
Facility ID: 0317010115
Effective Date: 7/17/2009

Authorization

Facility ID: 0317010115
Facility Description: Aggregate Processing Facility (Mineral Extraction/Crushing/Screening/Material Handling/Drying of Limestone Aggregates)
Application Number(s): A0037186
Permit Number: P0104828
Permit Description: Chapter 31 modification to allow for wet suppression as primary control of aggregate material processing/handling and flexibility to use secondary crusher baghouse if required.
Permit Type: OAC Chapter 3745-31 Modification
Permit Fee: \$450.00
Issue Date: 7/17/2009
Effective Date: 7/17/2009

This document constitutes issuance to:

National Lime & Stone Company
4580 Bethel Road
Bucyrus, OH 44820

Of a Permit-to-Install for the emissions unit(s) identified on the following page.

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

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

Chris Korleski
Director



State of Ohio Environmental Protection Agency
 Division of Air Pollution Control

Final Permit-to-Install
Permit Number: P0104828
Facility ID: 0317010115
Effective Date: 7/17/2009

Authorization (continued)

Permit Number: P0104828
 Permit Description: Chapter 31 modification to allow for wet suppression as primary control of aggregate material processing/handling and flexibility to use secondary crusher baghouse if required.

Permits for the following Emissions Unit(s) or groups of Emissions Units are in this document as indicated below:

Emissions Unit ID:	P901
Company Equipment ID:	Aggregate Processing Plant
Superseded Permit Number:	03-13758
General Permit Category and Type:	Not Applicable



State of Ohio Environmental Protection Agency
Division of Air Pollution Control

Final Permit-to-Install
Permit Number: P0104828
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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. 2.a), Severability Clause
 - (2) Standard Term and Condition A. 3.c) through A. 3.e) General Requirements
 - (3) Standard Term and Condition A. 6.c) and A. 6.d), Compliance Requirements
 - (4) Standard Term and Condition A. 9., Reporting Requirements
 - (5) Standard Term and Condition A. 10., Applicability
 - (6) Standard Term and Condition A. 11.b) through A. 11.e), Construction of New Source(s) and Authorization to Install
 - (7) Standard Term and Condition A. 14., Public Disclosure
 - (8) Standard Term and Condition A. 15., Additional Reporting Requirements When There Are No Deviations of Federally Enforceable Emission Limitations, Operational Restrictions, or Control Device Operating Parameter Limitations
 - (9) Standard Term and Condition A. 16., Fees
 - (10) Standard Term and Condition A. 17., Permit Transfers

2. Severability Clause

- a) 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.
- b) All terms and conditions designated in parts B and C of this permit are federally enforceable as a practical matter, if they are required under the Act, or any its applicable requirements, including relevant provisions designed to limit the potential to emit of a source, are enforceable by the Administrator of the U.S. EPA and the State and by citizens (to the extent allowed by section 304 of the Act) under the Act. Terms and conditions in parts B and C of this permit shall not be federally enforceable and shall be enforceable under State law only, only if specifically identified in this permit as such.

3. General Requirements

- a) The permittee must comply with all terms and conditions of this permit. Any noncompliance with the federally enforceable terms and conditions of this permit constitutes a violation of the Act, and is grounds for enforcement action or for permit revocation, revocation and re-issuance, or modification.



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

4. 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, 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.
- b) Each record of any monitoring data, testing data, and support information required pursuant to this permit shall be retained for a period of five years from the date the record was created. Support information shall include, but not be limited to all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. Such records may be maintained in computerized form.
- c) Except as may otherwise be provided in the terms and conditions for a specific emissions unit, the permittee shall submit required reports in the following manner:
 - (1) Reports of any required monitoring and/or recordkeeping of federally enforceable information shall be submitted to the Ohio EPA DAPC, Northwest District Office.



(2) Quarterly written reports of (i) any deviations from federally enforceable emission limitations, operational restrictions, and control device operating parameter limitations, excluding deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06, that have been detected by the testing, monitoring and recordkeeping requirements specified in this permit, (ii) the probable cause of such deviations, and (iii) any corrective actions or preventive measures taken, shall be made to the Ohio EPA DAPC, Northwest District Office. The written reports shall be submitted (i.e., postmarked) quarterly, by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. See A.15. below if no deviations occurred during the quarter.

(3) Written reports, which identify any deviations from the federally enforceable monitoring, recordkeeping, and reporting requirements contained in this permit shall be submitted (i.e., postmarked) to the Ohio EPA DAPC, Northwest District Office every six months, by January 31 and July 31 of each year for the previous six calendar months. If no deviations occurred during a six-month period, the permittee shall submit a semi-annual report, which states that no deviations occurred during that period.

(4) This permit is for an emissions unit located at a Title V facility. Each written report shall be signed by a responsible official certifying that, based on information and belief formed after reasonable inquiry, the statements and information in the report are true, accurate, and complete.

d) The permittee shall report actual emissions pursuant to OAC Chapter 3745-78 for the purpose of collecting Air Pollution Control Fees.

5. Scheduled Maintenance/Malfunction Reporting

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. The malfunction, i.e., upset, of any emissions units or any associated air pollution control system(s) shall be reported to the Ohio EPA DAPC, Northwest District Office in accordance with paragraph (B) of OAC rule 3745-15-06. (The definition of an upset condition shall be the same as that used in OAC rule 3745-15-06(B)(1) for a malfunction.) The verbal and written reports shall be submitted pursuant to OAC rule 3745-15-06.

Except as provided in that rule, any scheduled maintenance or malfunction necessitating the shutdown or bypassing of any air pollution control system(s) shall be accompanied by the shutdown of the emission unit(s) that is (are) served by such control system(s).

6. Compliance Requirements

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

b) Any document (including reports) required to be submitted and required by a federally applicable requirement in this permit shall include a certification by a responsible official that, based on information and belief formed after reasonable inquiry, the statements in the document are true, accurate, and complete.

c) 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 ORC section 3704.08.
 - (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.
- d) The permittee shall submit progress reports to the Ohio EPA DAPC, Northwest District Office 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.

7. Best Available Technology

As specified in OAC Rule 3745-31-05, new sources that must employ Best Available Technology (BAT) shall comply with the Applicable Emission Limitations/Control Measures identified as BAT for each subject emissions unit.

8. 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.

9. Reporting Requirements

The permittee shall submit required reports in the following manner:

- a) Reports of any required monitoring and/or recordkeeping of state-only enforceable information shall be submitted to the Ohio EPA DAPC, Northwest District Office.
- b) Except as otherwise may be provided in the terms and conditions for a specific emissions unit, quarterly written reports of (a) any deviations (excursions) from state-only required emission limitations, operational restrictions, and control device operating parameter limitations that have been detected by the testing, monitoring, and recordkeeping requirements specified in this permit, (b) the probable cause of such deviations, and (c) any corrective actions or preventive measures which have been or will be taken, shall be submitted to the Ohio EPA DAPC, Northwest District Office. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted



(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.)

10. Applicability

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

11. Construction of New Sources(s) and Authorization to Install

- a) This permit does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. This permit does not constitute expressed or implied assurance that the proposed facility has been constructed in accordance with the application and terms and conditions of this permit. The action of beginning and/or completing construction prior to obtaining the Director's approval constitutes a violation of OAC rule 3745-31-02. Furthermore, issuance of this permit does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. Issuance of this permit is not to be construed as a waiver of any rights that the Ohio Environmental Protection Agency (or other persons) may have against the applicant for starting construction prior to the effective date of the permit. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed facilities cannot meet the requirements of this permit or cannot meet applicable standards.
- b) If applicable, authorization to install any new emissions unit included in this permit shall terminate within eighteen months of the effective date of the permit if the owner or operator has not undertaken a continuing program of installation or has not entered into a binding contractual obligation to undertake and complete within a reasonable time a continuing program of installation. This deadline may be extended by up to 12 months if application is made to the Director within a reasonable time before the termination date and the party shows good cause for any such extension.
- c) The permittee may notify Ohio EPA of any emissions unit that is permanently shut down (i.e., the emissions unit 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) by submitting a certification from the authorized 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 authorized official that the emissions unit was permanently shut down. At a minimum, notification of permanent shut down shall be made or confirmed through completion of the annual PER covering the last period of operation of the affected emissions unit(s).
- d) The provisions of this permit shall cease to be enforceable for each affected emissions unit after the date on which an emissions unit is permanently shut down (i.e., emissions unit 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). All records relating to any permanently shutdown emissions unit, generated while the emissions unit was in operation, must be maintained in accordance with law. All reports required by this permit must be submitted for any period an affected emissions unit operated prior to permanent shut down. At a minimum, the permit requirements must be evaluated as part of the PER covering the last period the emissions unit operated.



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

- e) The permittee shall comply with any residual requirements related to this permit, such as the requirement to submit a PER, air fee emission report, or other any reporting required by this permit for the period the operating provisions of this permit were enforceable, or as required by regulation or law. All reports shall be submitted in a form and manner prescribed by the Director. All records relating to this permit must be maintained in accordance with law.

12. Permit-To-Operate Application

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

13. Construction Compliance Certification

The applicant shall identify the following dates in the online facility profile for each new emissions unit identified in this permit.

- a) Completion of initial installation date shall be entered upon completion of construction and prior to start-up.
- b) Commence operation after installation or latest modification date shall be entered within 90 days after commencing operation of the applicable emissions unit.

14. Public Disclosure

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

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

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

16. Fees

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



State of Ohio Environmental Protection Agency
Division of Air Pollution Control

Final Permit-to-Install
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17. Permit Transfers

Any transferee of this permit shall assume the responsibilities of the prior permit holder. The Ohio EPA DAPC, Northwest District Office must be notified in writing of any transfer of this permit.

18. Risk Management Plans

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

19. 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.



State of Ohio Environmental Protection Agency
Division of Air Pollution Control

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B. Facility-Wide Terms and Conditions



State of Ohio Environmental Protection Agency
Division of Air Pollution Control

Final Permit-to-Install
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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.



State of Ohio Environmental Protection Agency
Division of Air Pollution Control

Final Permit-to-Install
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C. Emissions Unit Terms and Conditions



1. P901, Aggregate Processing Plant

Operations, Property and/or Equipment Description:

aggregate processing plant with primary and secondary crushing, screening, conveying and material handling operations

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 operations(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. 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)(a)	23.88 tons fugitive particulate emissions (PE)/year 8.55 tons fugitive particulate matter 10 microns or less is size (PM10)/year best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust [See b)(2)a. and b)(2)b.] See b)(2)c. visible PE restrictions [See b)(2)g.] 0.007 grain/dscf, 3.15 tons PM10/year from baghouse controlling secondary crushing and screening [See b)(2)a.]
b.	OAC rule 3745-17-07(B)	See b)(2)d.
c.	OAC rule 3745-17-08(B)	See b)(2)e.
d.	OAC rule 3745-17-11(A)	See b)(2)f.
e.	40 CFR, Part 60, Subpart OOO	visible PE restrictions [See b)(2)g.]

(2) Additional Terms and Conditions

a. The permittee shall employ best available control measures for the material processing/handling operations identified below, for the purpose of ensuring compliance with the above mentioned applicable requirements. In accordance



with the permit application, the permittee has committed to perform the following control measure(s) to ensure compliance:

<u>material processing/handling operation</u>	<u>control measure(s)</u>
loading	reduced drop height
primary crushing and screening	water sprays
secondary crushing and screening	wet suppression or baghouse with a removal efficiency of 99%
transfer/conveying	wet suppression
recrushing and rescreening	wet suppression

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

- b. Implementation of the above-mentioned control measures in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the requirements of OAC rule 3745-31-05.
- c. The requirements of this rule also include compliance with 40 CFR Part 60, Subpart OOO.
- d. This emissions unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(B), pursuant to OAC rule 3745-17-07(B)(11)(e).
- e. National Lime and Stone is not located within an "Appendix A" area as identified in OAC rule 3745-17-08. Therefore, pursuant to OAC rule 3745-17-08(A), this emissions unit is exempt from the requirements of OAC rule 3745-17-08(B)(1).
- f. The limitation specified by this rule is less stringent than the baghouse outlet grain loading established pursuant to OAC rule 3745-31-05(A)(3)(a).
- g. Visible emissions from the material processing equipment shall not exceed the following opacity restrictions:

Emissions Point (Company ID)	Equipment Type	Opacity Limit as a 6-minute average, unless otherwise specified	Regulatory Basis for Limit
front-end loader to grizzly feeder	transfer point	20%, as a 3-minute average	OAC rule 3745-31-05
Feeder to Primary Crusher	transfer point	15%	40 CFR Part 60, Subpart OOO
Primary Crusher	crusher	15%	40 CFR Part 60, Subpart



			000
Primary Crusher to Conveyor	transfer point	15%	40 CFR Part 60, Subpart 000
Conveyor PC1	Transfer point	10%	40 CFR Part 60, Subpart 000
Conveyor PC2	Transfer point	10%	40 CFR Part 60, Subpart 000
Conveyor PC3	Transfer point	10%	40 CFR Part 60, Subpart 000
Conveyor PC4	Transfer point	10%	40 CFR Part 60, Subpart 000
Conveyor PC5	Transfer point	10%	40 CFR Part 60, Subpart 000
Conveyor PC8	Transfer point	10%	40 CFR Part 60, Subpart 000
Conveyor PC9	Transfer point	10%	40 CFR Part 60, Subpart 000
Conveyor PC10	Transfer point	10%	40 CFR Part 60, Subpart 000
Conveyor to surge pile	Transfer point	10%	40 CFR Part 60, Subpart 000
Surge pile w/feeders to Conveyor	Transfer point	10%	40 CFR Part 60, Subpart 000
Conveyor C1	Transfer point	10%	40 CFR Part 60, Subpart 000
Conveyor C2	Transfer point	10%	40 CFR Part 60, Subpart 000
Conveyor to primary screen	Transfer point	10%	40 CFR Part 60, Subpart 000
Primary screen	Screen	15%	
Primary screen to conveyor	Transfer point	10%	40 CFR Part 60, Subpart 000
Conveyor C3	Transfer point	10%	40 CFR Part 60, Subpart 000
Conveyor to HSI secondary crusher	Transfer point	10%	40 CFR Part 60, Subpart 000
HSI Secondary Crusher	Crusher	wet suppression -15%; or baghouse- 7%; 0.007 gr/dscf	40 CFR Part 60, Subpart 000
Secondary crusher to conveyor	Transfer point	15%	40 CFR Part 60, Subpart 000
Conveyor C4	Transfer point	10%	40 CFR Part 60, Subpart 000
Conveyor C5	Transfer point	10%	40 CFR Part 60, Subpart 000
Conveyor to VSI Secondary Crusher	Transfer point	15%	40 CFR Part 60, Subpart 000
VSI Secondary Crusher	Crusher	wet suppression -15%; or baghouse- 7%; 0.001 gr/dscf	40 CFR Part 60, Subpart 000



Secondary crusher to conveyor	Transfer point	15%	40 CFR Part 60, Subpart 000
Conveyor C6	Transfer point	10%	40 CFR Part 60, Subpart 000
Conveyor C7	Transfer point	10%	40 CFR Part 60, Subpart 000
Conveyor to secondary screens	Transfer point	10%	40 CFR Part 60, Subpart 000
Secondary screens	Screen	10%	40 CFR Part 60, Subpart 000
Secondary screens to conveyor	Transfer point	10%	40 CFR Part 60, Subpart 000
Conveyor C8	Transfer point	10%	40 CFR Part 60, Subpart 000
Conveyor C9	Transfer point	10%	40 CFR Part 60, Subpart 000
Conveyor C10	Transfer point	10%	40 CFR Part 60, Subpart 000
Conveyor C11	Transfer point	10%	40 CFR Part 60, Subpart 000
Conveyor C12	Transfer point	10%	40 CFR Part 60, Subpart 000
Conveyor C13	Transfer point	10%	40 CFR Part 60, Subpart 000
Conveyor C14	Transfer point	10%	40 CFR Part 60, Subpart 000
Conveyor C15	Transfer point	10%	40 CFR Part 60, Subpart 000
Conveyor C16	Transfer point	10%	40 CFR Part 60, Subpart 000
Conveyor C17	Transfer point	10%	40 CFR Part 60, Subpart 000
Conveyor C18	Transfer point	10%	40 CFR Part 60, Subpart 000
Conveyor C41	Transfer point	10%	40 CFR Part 60, Subpart 000
Conveyor C42	Transfer point	10%	40 CFR Part 60, Subpart 000
Conveyor C43	Transfer point	10%	40 CFR Part 60, Subpart 000
Conveyor C44	Transfer point	10%	40 CFR Part 60, Subpart 000
Conveyor C45	Transfer point	10%	40 CFR Part 60, Subpart 000
Conveyor C46	Transfer point	10%	40 CFR Part 60, Subpart 000
Conveyor C47	Transfer point	10%	40 CFR Part 60, Subpart 000
Conveyor C48	Transfer point	10%	40 CFR Part 60, Subpart 000
Conveyor C49	Transfer point	10%	40 CFR Part 60, Subpart 000
Conveyor C50	Transfer point	10%	40 CFR Part 60, Subpart 000



c) Operational Restrictions

- (1) The maximum annual material throughput for this emissions unit shall not exceed 4,620,000 tons. This restriction is based on the material throughput of the primary crusher and includes recycled material.

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall maintain monthly records of the material throughput for the primary crusher, in tons. For each month, the permittee shall also calculate the annual, year-to-date, material throughput for the primary crusher, in tons (cumulative total of each month to date from January to December).
- (2) The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible fugitive particulate emissions from the the material processing/handling operations (i.e., crushing, screening or transfer points). 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 emission incident; and
 - e. any corrective actions taken to minimize or eliminate the visible emissions.

If visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item (d) above or continue the daily check until the incident has ended. The observer may indicate that the visible emission 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.

The daily checks shall include visible fugitive particulate emissions from secondary crushing and screening operations when baghouse control is employed.

- (3) In order to maintain compliance with the applicable emission limitation(s) contained in this permit, the acceptable range established for the pressure drop across the baghouse (when employed) is between 0.5 to 10 inches of water.
- (4) When employing the baghouse, the permittee shall properly install, operate, and maintain equipment to continuously monitor the pressure drop, in inches of water, across the baghouse when the controlled emissions unit(s) is/are in operation, including periods



of startup and shutdown. The permittee shall record the pressure drop across the baghouse on weekly basis. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer=s recommendations, instructions, and operating manual(s), with any modifications deemed necessary by the permittee.

Whenever the monitored value for the pressure drop deviates from the limit or range established in accordance with this permit, the permittee shall promptly investigate the cause of the deviation. The permittee shall maintain records of the following information for each investigation:

- a. the date and time the deviation began;
- b. the magnitude of the deviation at that time;
- c. the date the investigation was conducted;
- d. the name(s) of the personnel who conducted the investigation; and
- e. the findings and recommendations.

In response to each required investigation to determine the cause of a deviation, the permittee shall take prompt corrective action to bring the operation of the control equipment within the acceptable range specified in this permit, unless the permittee determines that corrective action is not necessary and documents the reasons for that determination and the date and time the deviation ended. The permittee shall maintain records of the following information for each corrective action taken:

- a. a description of the corrective action;
- b. the date corrective action was completed;
- c. the date and time the deviation ended;
- d. the total period of time (in minutes) during which there was a deviation;
- e. the pressure drop readings immediately after the corrective action was implemented; and
- f. the name(s) of the personnel who performed the work.

Investigation and records required by this paragraph do not eliminate the need to comply with the requirements of OAC rule 3745-15-06 if it is determined that a malfunction has occurred.

This range or limit on the pressure drop across the baghouse is effective for the duration of this permit, unless revisions are requested by the permittee and approved in writing by the appropriate Ohio EPA District Office or local air agency. The permittee may request revisions to the permitted limit or range for the pressure drop based upon information obtained during future testing that demonstrate compliance with the allowable particulate emission rate for the controlled emissions unit(s). In addition, approved revisions to the range or limit will not constitute a relaxation of the monitoring requirements of this permit and may be incorporated into this permit by means of a minor permit modification.



e) Reporting Requirements

- (1) The permittee shall submit annual deviation (excursion) reports that indentify any exceedances of the annual material throughput limitation, as well as the corrective actions that have been taken to achieve compliance. If no deviations occurred during the calendar year, the permittee shall submit an annual report which states no deviations occurred during the calendar year. These reports shall be submitted by January 31 of each year.
- (2) The permittee shall submit semiannual written reports that identify:
 - a. all days during which any visible fugitive particulate emissions were observed from material processing/handling operations (i.e., crushing, screening or transfer points); and
 - b. any corrective actions taken to minimize or eliminate the visible fugitive 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.

- (3) The permittee shall submit quarterly deviation (excursion) reports* that identify the following:
 - a. each period of time (start time and date, and end time and date) when the pressure drop across the baghouse was outside of the acceptable range;
 - b. any period of time (start time and date, and end time and date) when the emissions unit(s) was/were in operation and the process emissions were not vented to the baghouse;
 - c. each incident of deviation described in Aa@ (above) where a prompt investigation was not conducted;
 - d. each incident of deviation described in Aa@ where prompt corrective action, that would bring the pressure drop into compliance with the acceptable range, was determined to be necessary and was not taken; and
 - e. each incident of deviation described in Aa@ where proper records were not maintained for the investigation and/or the corrective action(s), as identified in the monitoring and record keeping requirements of this permit.

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

*Quarterly deviation reports will only be required for time periods during which the baghouse was employed for control of material processing/handling operations.



f) Testing Requirements

The following NSPS requirements contained in terms and conditions f)(1) through f)(7) have already been fulfilled as required by PTI #03-10215 issued on 6/24/97 and this permit modification will not require any additional testing:

- (1) The permittee shall conduct, or have conducted, emission testing for all transfer points, screens, and crushers of emissions unit P901.
- (2) Testing shall be conducted in accordance with the provisions of 40 CFR Part 60, Subpart A, Section 60.8 and 40 CFR Part 60, Subpart OOO, Section 60.675.
- (3) The emission testing shall be conducted within 60 days after achieving the maximum production rate at which the affected facility will be operated, by not later than 180 days after initial startup of such facility and at such other times as may be required by the Ohio Environmental Protection Agency, Division of Air Pollution Control. The emission testing shall be conducted to demonstrate compliance with the allowable visible emission rates for particulate emissions. (This emissions unit has already been installed and is currently operational. Therefore, the permittee shall conduct emission testing within 90 days after the final issuance of this permit.)
- (4) The following test methods shall be employed to demonstrate compliance with the allowable visible emissions rates:
 - a. Method 9 of 40 CFR Part 60, Appendix A shall be used to determine opacity.
- (5) The following test methods shall be employed to demonstrate compliance with the allowable baghouse outlet grain loading*:
 - a. Methods 1 – 5 of 40 CFR Part 60, Appendix A
- (6) The tests shall be conducted while the emissions unit is operating at its maximum capacity, unless otherwise specified or approved by the Ohio EPA, Division of Air Pollution Control. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Ohio EPA, Division of Air Pollution Control. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operation parameters, the times and dates of the tests, and the person(s) who will be conducting the tests. Failure to submit such notification for review and approval prior to the tests may result in the Ohio EPA District Office's air agency's refusal to accept the results of the emission tests.
- (7) Personnel from the Ohio EPA District Office's air agency shall be permitted to witness the test, examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions unit and /or the performance of the control equipment. A comprehensive written report on the emissions tests shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA Division of Air Pollution Control within 30 days following completion of the tests.

*The permittee has fulfilled the emission testing requirements of this permit by stack testing which was performed on 10/9/01.



(8) Compliance with the emissions limitations specified in Section b)(1) of these terms and conditions shall be determined in accordance with the following methods:

a. Emission Limitation:
23.88 tons fugitive PE/year

Applicable Compliance Method:

The annual PE limitation was established by multiplying the sum of fugitive PE from the crushing, screening, and transfer operations associated with this emissions unit by the maximum annual throughput rate, and then dividing by 2000 lbs/ton.

The emission rate was determined as follows:

- i. for each crusher (3), multiply the appropriate emission factor from AP-42 of 0.0012 lb PE/ton processed (Chapter 11.19.2 - 8/04) by the maximum annual throughput of the crusher and divide by 2000 lbs/ton;
- ii. for each screen (3), multiply the appropriate emission factor from AP-42 of 0.0022 lb PE/ton processed (Chapter 11.19.2 - 8/04) by the maximum annual throughput of the screen and divide by 2000 lbs/ton; and
- ii. for each transfer point (36), multiply the appropriate emission factor from AP-42 of 0.00014 lb PE/ton processed (Chapter 11.19.2 - 8/04) by the maximum annual throughput of the transfer point and divide by 2000 lbs/ton.

Therefore, provided compliance is shown with the annual production restriction, compliance with the annual emission limitation shall be assumed.

b. Emission Limitation:
8.55 tons fugitive PM10/year

Applicable Compliance Method:

The annual PM10 limitation was established by multiplying the sum of fugitive PE from the crushing, screening, and transfer operations associated with this emissions unit by the maximum annual throughput rate, and then dividing by 2000 lbs/ton.

The emission rate was determined as follows:

- i. for each crusher (3), multiply the appropriate emission factor from AP-42 of 0.00054 lb PM-10/ton processed (Chapter 11.19.2 - 8/04) by the maximum annual throughput of the crusher and divide by 2000 lbs/ton;
- ii. for each screen (3), multiply the appropriate emission factor from AP-42 of 0.00074 lb PM-10/ton processed (Chapter 11.19.2 - 8/04) by the maximum annual throughput of the screen and divide by 2000 lbs/ton; and
- iii. for each transfer point (36), multiply the appropriate emission factor from AP-42 of 0.000046 lb PM-10/ton processed (Chapter 11.19.2 - 8/04) by



the maximum annual throughput of the transfer point and divide by 2000 lbs/ton.

Therefore, provided compliance is shown with the annual production restriction, compliance with the annual emission limitation shall be assumed.

c. Emission Limitation:

Visible PE shall not exceed 20% opacity, as a 3-minute average during loading operations of the feeder or hopper.

Applicable Compliance Method:

Compliance shall be determined through visible emission observations performed in accordance U.S. EPA Method 9 and the procedures specified in OAC rule 3745-17-03(B)(3).

d. 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:

Compliance shall be demonstrated using Method 9 of 40 CFR, Part 60, Appendix A, and the procedures in 40 CFR, Part 60, Subpart OOO as specified in Sections f)(1) through f)(7) above.

e. Emission Limitation:

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

Applicable Compliance Method:

Compliance shall be demonstrated using Method 9 of 40 CFR, Part 60, Appendix A, and the procedures in 40 CFR, Part 60, Subpart OOO as specified in Sections f)(1) through f)(7) above.

f. Emission Limitation:

0.007 grains/dscf from secondary crushing and screening baghouse

Applicable Compliance Method:

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

g. Emission Limitation:

3.15 tons PM10/year from secondary crushing and screening baghouse

Applicable Compliance Method:

The tons/yr limitation was developed by multiplying the baghouse outlet grain loading by a maximum airflow of 12,000 cfm, 60 minutes/hour, a maximum operating schedule of 8760 hours/year and dividing by 7000 grains/lb and 2000 lbs/ton. Therefore, provided compliance is demonstrated with the maximum outlet grain loading, compliance will also be shown with the annual limitation.



- h. Emission Limitation:
Visible PE from the secondary crushing and screening baghouse shall not exceed 7% opacity, as a six-minute average.

Applicable Compliance Method:

Compliance shall be demonstrated using Method 9 of 40 CFR, Part 60, Appendix A, and the procedures in 40 CFR, Part 60, Subpart OOO as specified in Sections f)(1) through f)(7) above.

- g) Miscellaneous Requirements

- (1) None