



Environmental
Protection Agency

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

2/14/2012

Mary Woodley
HANSON AGGREGATES DAVON INC EAGLE CRUSHE
207 Old Harrods Creek Rd.
Louisville, KY 40223

RE: FINAL AIR POLLUTION PERMIT-TO-INSTALL AND OPERATE

Facility ID: 0708000065
Permit Number: 07-00533
Permit Type: OAC Chapter 3745-31 Modification
County: Brown

Certified Mail

No	TOXIC REVIEW
No	PSD
No	SYNTHETIC MINOR TO AVOID MAJOR NSR
No	CEMS
No	MACT/GACT
Yes	NSPS
No	NESHAPS
No	NETTING
No	MAJOR NON-ATTAINMENT
No	MODELING SUBMITTED
No	SYNTHETIC MINOR TO AVOID TITLE V
Yes	FEDERALLY ENFORCABLE PTIO (FEPTIO)
No	SYNTHETIC MINOR TO AVOID MAJOR GHG

Dear Permit Holder:

Enclosed please find a final Air Pollution Permit-to-Install and Operate (PTIO) which will allow you to install, modify, and/or operate the described emissions unit(s) in the manner indicated in the permit. Because this permit contains conditions and restrictions, please read it very carefully. Please complete a survey at www.epa.ohio.gov/dapc/permitsurvey.aspx and give us feedback on your permitting experience. We value your opinion.

The issuance of this PTI is a final action of the Director and may be appealed to the Environmental Review Appeals Commission pursuant to Section 3745.04 of the Ohio Revised Code. The appeal must be in writing and set forth the action complained of and the grounds upon which the appeal is based. The appeal must be filed with the Commission within thirty (30) days after notice of the Director's action. The appeal must be accompanied by a filing fee of \$70.00, made payable to "Ohio Treasurer Josh Mandel," which the Commission, in its discretion, may reduce if by affidavit you demonstrate that payment of the full amount of the fee would cause extreme hardship. Notice of the filing of the appeal shall be filed with the Director within three (3) days of filing with the Commission. Ohio EPA requests that a copy of the appeal be served upon the Ohio Attorney General's Office, Environmental Enforcement Section. An appeal may be filed with the Environmental Review Appeals Commission at the following address:

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

If you have any questions, please contact Portsmouth City Health Dept., Air Pollution Unit at (740)353-5156 or the Office of Compliance Assistance and Pollution Prevention at (614) 644-3469. This permit can be accessed electronically on the DAPC Web page, www.epa.ohio.gov/dapc, by clicking the "Issued Air Pollution Control Permits" link.

Sincerely,

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

Cc: Portsmouth



FINAL

**Division of Air Pollution Control
Permit-to-Install and Operate
for**

HANSON AGGREGATES DAVON INC EAGLE CRUSHE

Facility ID:	0708000065
Permit Number:	07-00533
Permit Type:	OAC Chapter 3745-31 Modification
Issued:	2/14/2012
Effective:	2/14/2012
Expiration:	2/14/2017



Division of Air Pollution Control
Permit-to-Install and Operate
for
HANSON AGGREGATES DAVON INC EAGLE CRUSHE

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Authorization

Facility ID: 0708000065
Application Number(s): A0007390
Permit Number: 07-00533
Permit Description: Aggregate Processing Plant: 5 crushers, 6 screens, and 41 conveyor transfer points. Chapter 31 Modification to install new deshale and lime sections (8 new conveyors, 1 new two deck simplicity screen) with baghouse.
Permit Type: OAC Chapter 3745-31 Modification
Permit Fee: \$1,250.00
Issue Date: 2/14/2012
Effective Date: 2/14/2012
Expiration Date: 2/14/2017
Permit Evaluation Report (PER) Annual Date: Jan 1 - Dec 31, Due Feb 15

This document constitutes issuance to:

HANSON AGGREGATES DAVON INC EAGLE CRUSHE
13526 OVERSTAKE ROAD
WINCHESTER, OH 45697

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

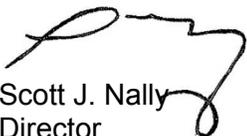
Ohio EPA District Office or local air agency responsible for processing and administering your permit:

Portsmouth City Health Dept., Air Pollution Unit
605 Washington Street
3rd Floor
Portsmouth, OH 45662
(740)353-5156

The above named entity is hereby granted this Permit-to-Install and Operate for the air contaminant source(s) (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 described emissions unit(s) will operate in compliance with applicable State and federal laws and regulations.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency


Scott J. Nally
Director



Authorization (continued)

Permit Number: 07-00533

Permit Description: Aggregate Processing Plant: 5 crushers, 6 screens, and 41 conveyor transfer points. Chapter 31 Modification to install new deshale and lime sections (8 new conveyors, 1 new two deck simplicity screen) with baghouse.

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

Emissions Unit ID:	F004
Company Equipment ID:	Aggregate Crushing, Screening, Conveying
Superseded Permit Number:	07-00492
General Permit Category and Type:	Not Applicable



A. Standard Terms and Conditions

1. What does this permit-to-install and operate ("PTIO") allow me to do?

This permit allows you to install and operate the emissions unit(s) identified in this PTIO. You must install and operate the unit(s) in accordance with the application you submitted and all the terms and conditions contained in this PTIO, including emission limits and those terms that ensure compliance with the emission limits (for example, operating, recordkeeping and monitoring requirements).

2. Who is responsible for complying with this permit?

The person identified on the "Authorization" page, above, is responsible for complying with this permit until the permit is revoked, terminated, or transferred. "Person" means a person, firm, corporation, association, or partnership. The words "you," "your," or "permittee" refer to the "person" identified on the "Authorization" page above.

The permit applies only to the emissions unit(s) identified in the permit. If you install or modify any other equipment that requires an air permit, you must apply for an additional PTIO(s) for these sources.

3. What records must I keep under this permit?

You must keep all records required by this permit, including monitoring data, test results, strip-chart recordings, calibration data, maintenance records, and any other record required by this permit for five years from the date the record was created. You can keep these records electronically, provided they can be made available to Ohio EPA during an inspection at the facility. Failure to make requested records available to Ohio EPA upon request is a violation of this permit requirement.

4. What are my permit fees and when do I pay them?

There are two fees associated with permitted air contaminant sources in Ohio:

- PTIO fee. This one-time fee is based on a fee schedule in accordance with Ohio Revised Code (ORC) section 3745.11, or based on a time and materials charge for permit application review and permit processing if required by the Director.

You will be sent an invoice for this fee after you receive this PTIO and payment is due within 30 days of the invoice date. You are required to pay the fee for this PTIO even if you do not install or modify your operations as authorized by this permit.

- Annual emissions fee. Ohio EPA will assess a separate fee based on the total annual emissions from your facility. You self-report your emissions in accordance with Ohio Administrative Code (OAC) Chapter 3745-78. This fee assessed is based on a fee schedule in ORC section 3745.11 and funds Ohio EPA's permit compliance oversight activities. Unless otherwise specified, facilities subject to one or more synthetic minor restrictions must use Ohio EPA's "Air Services" to submit annual emissions associated with this permit requirement. Ohio EPA will notify you when it is time to report your emissions and to pay your annual emission fees.

5. When does my PTIO expire, and when do I need to submit my renewal application?

This permit expires on the date identified at the beginning of this permit document (see "Authorization" page above) and you must submit a renewal application to renew the permit. Ohio EPA will send a renewal notice to you approximately six months prior to the expiration date of this permit. However, it is

very important that you submit a complete renewal permit application (postmarked prior to expiration of this permit) even if you do not receive the renewal notice.

If a complete renewal application is submitted before the expiration date, Ohio EPA considers this a timely application for purposes of ORC section 119.06, and you are authorized to continue operating the emissions unit(s) covered by this permit beyond the expiration date of this permit until final action is taken by Ohio EPA on the renewal application.

6. What happens to this permit if my project is delayed or I do not install or modify my source?

This PTIO expires 18 months after the issue date identified on the "Authorization" page above unless otherwise specified if you have not (1) started constructing the new or modified emission sources identified in this permit, or (2) entered into a binding contract to undertake such construction. This deadline can be extended by up to 12 months, provided you apply to Ohio EPA for this extension within a reasonable time before the 18-month period has ended and you can show good cause for any such extension.

7. What reports must I submit under this permit?

An annual permit evaluation report (PER) is required in addition to any malfunction reporting required by OAC rule 3745-15-06 or other specific rule-based reporting requirement identified in this permit. Your PER due date is identified in the Authorization section of this permit.

8. If I am required to obtain a Title V operating permit in the future, what happens to the operating provisions and PER obligations under this permit?

If you are required to obtain a Title V permit under OAC Chapter 3745-77 in the future, the permit-to-operate portion of this permit will be superseded by the issued Title V permit. From the effective date of the Title V permit forward, this PTIO will effectively become a PTI (permit-to-install) in accordance with OAC rule 3745-31-02(B). The following terms and conditions will no longer be applicable after issuance of the Title V permit: Section B, Term 1.b) and Section C, for each emissions unit, Term a)(2).

The PER requirements in this permit remain effective until the date the Title V permit is issued and is effective, and cease to apply after the effective date of the Title V permit. The final PER obligation will cover operations up to the effective date of the Title V permit and must be submitted on or before the submission deadline identified in this permit on the last day prior to the effective date of the Title V permit.

9. What are my obligations when I perform scheduled maintenance on air pollution control equipment?

You must perform scheduled maintenance of air pollution control equipment in accordance with OAC rule 3745-15-06(A). If scheduled maintenance requires shutting down or bypassing any air pollution control equipment, you must also shut down the emissions unit(s) served by the air pollution control equipment during maintenance, unless the conditions of OAC rule 3745-15-06(A)(3) are met. Any emissions that exceed permitted amount(s) under this permit (unless specifically exempted by rule) must be reported as deviations in the annual permit evaluation report (PER), including nonexempt excess emissions that occur during approved scheduled maintenance.

10. Do I have to report malfunctions of emissions units or air pollution control equipment? If so, how must I report?

If you have a reportable malfunction of any emissions unit(s) or any associated air pollution control system, you must report this to the Portsmouth City Health Dept., Air Pollution Unit in accordance with OAC rule 3745-15-06(B). Malfunctions that must be reported are those that result in emissions that exceed permitted emission levels. It is your responsibility to evaluate control equipment breakdowns and operational upsets to determine if a reportable malfunction has occurred.

If you have a malfunction, but determine that it is not a reportable malfunction under OAC rule 3745-15-06(B), it is recommended that you maintain records associated with control equipment breakdown or process upsets. Although it is not a requirement of this permit, Ohio EPA recommends that you maintain records for non-reportable malfunctions.

11. Can Ohio EPA or my local air agency inspect the facility where the emission unit(s) is/are located?

Yes. Under Ohio law, the Director or his authorized representative may inspect the facility, conduct tests, examine records or reports to determine compliance with air pollution laws and regulations and the terms and conditions of this permit. You must provide, within a reasonable time, any information Ohio EPA requests either verbally or in writing.

12. What happens if one or more emissions units operated under this permit is/are shut down permanently?

Ohio EPA can terminate the permit terms associated with any permanently shut down emissions unit. "Shut down" means 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.

You should notify Ohio EPA of any emissions unit that is permanently shut down by submitting¹ a certification that identifies the date on which the emissions unit was permanently shut down. The certification must be submitted by an authorized official from the facility. You cannot continue to operate an emissions unit once the certification has been submitted to Ohio EPA by the authorized official.

You must comply with all recordkeeping and reporting for any permanently shut down emissions unit in accordance with the provisions of the permit, regulations or laws that were enforceable during the period of operation, such as the requirement to submit a PER, air fee emission report, or malfunction report. You must also keep all records relating to any permanently shutdown emissions unit, generated while the emissions unit was in operation, for at least five years from the date the record was generated.

Again, you cannot resume operation of any emissions unit certified by the authorized official as being permanently shut down without first applying for and obtaining a permit pursuant to OAC Chapter 3745-31.

¹Permittees that use Ohio EPA's "Air Services" can mark the affected emissions unit(s) as "permanently shutdown" in the facility profile along with the date the emissions unit(s) was permanently removed and/or disabled. Submitting the facility profile update will constitute notifying of the permanent shutdown of the affected emissions unit(s).

13. Can I transfer this permit to a new owner or operator?

You can transfer this permit to a new owner or operator. If you transfer the permit, you must follow the procedures in OAC Chapter 3745-31, including notifying Ohio EPA or the local air agency of the change in ownership or operator. Any transferee of this permit must assume the responsibilities of the transferor permit holder.

14. Does compliance with this permit constitute compliance with OAC rule 3745-15-07, "air pollution nuisance"?

This permit and OAC rule 3745-15-07 prohibit operation of the air contaminant source(s) regulated under this permit in a manner that causes a nuisance. Ohio EPA can require additional controls or modification of the requirements of this permit through enforcement orders or judicial enforcement action if, upon investigation, Ohio EPA determines existing operations are causing a nuisance.

15. What happens if a portion of this permit is determined to be invalid?

If a portion of this permit is determined to be invalid, the remainder of the terms and conditions remain valid and enforceable. The exception is where the enforceability of terms and conditions are dependent on the term or condition that was declared invalid.

B. Facility-Wide Terms and Conditions

1. This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).
 - a) For the purpose of a permit-to-install document, the facility-wide terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.
 - (1) None.
 - b) For the purpose of a permit-to-operate document, the facility-wide terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.
 - (1) None.

C. Emissions Unit Terms and Conditions



1. F004, Aggregate Crushing, Screening, Conveying

Operations, Property and/or Equipment Description:

Aggregate Processing Plant: 5 crushers, 6 screens, 41 conveyor transfer points controlled with water sprays. Chapter 31 modification to install new deshale and limestone sections (8 new conveyors and a two deck simplicity screen) and to add a baghouse for additional control of conveyor transfer points.

a) This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).

(1) For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.

a. None.

(2) For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.

a. 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)	<p>Fugitive particulate emissions (PE) shall not exceed 15.95 pounds per hour and 69.81 tons per year.</p> <p>Fugitive particulate emissions less than 10 microns (PM10) shall not exceed 4.48 pounds per hour and 19.62 tons (PM10) per year.</p> <p>The requirements of this rule also include compliance with the requirements of NSPS 40 CFR Part 60, Subpart OOO.</p> <p>See b)(2)a. through f.</p> <p>PE from the baghouse stack shall not exceed 0.03 gr/dscf or 5.8 pounds per</p>



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		hour and 25.40 tons per year.
b.	NSPS 40 CFR Part 60, Subpart OOO	Opacity Restrictions [See b)(2)a and e.] The emission limitation from the baghouse stack required by this applicable rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

(2) Additional Terms and Conditions

- a. The following aggregate processing equipment/operations are covered by this permit:

Emissions Point (Company ID)	Equipment Type	Opacity Limit	Regulatory Basis for Limit
Shale Recovery Line			
48x20 VGF	Transfer Point	20%	OAC rule 3745-31-05
47x17.5 Wf	Transfer Point	10%	OAC rule 3745-31-05
Lippman 42x48 jaw	Crusher	15%	NSPS, Subpart OOO
Conveyor- under wobbler feeder	Transfer Point	10 %	OAC rule 3745-31-05
Conveyor- to deshale scalping screen	Transfer Point	10 %	OAC rule 3745-31-05
Conveyor-material to deshale scalper	Transfer Point	10 %	OAC rule 3745-31-05
Conveyor-to new shale screen	Transfer Point	10 %	OAC rule 3745-31-05
Scalping screen	Screen	10 %	NSPS, Subpart OOO
Conveyor- to old shale screen	Transfer Point	10 %	OAC rule 3745-31-05
Conveyor - shale pickup	Transfer Point	10 %	OAC rule 3745-31-05
Conveyor- to shale	Transfer Point	10 %	OAC rule 3745-31-05



stacker			
Conveyor - return to C10	Transfer Point	10 %	OAC rule 3745-31-05
Stedman 4860 HSI	Crusher	15%	NSPS, Subpart 000
Simplicity screen	Screen	10 %	NSPS, Subpart 000
Conveyor-under jaw belt	Transfer Point	10 %	OAC rule 3745-31-05
Conveyor-secondary feed	Baghouse Stack	7 %	NSPS, Subpart 000
Simplicity screen-2 deck	Screen	10 %	NSPS, Subpart 000
Conveyor-new screen to crusher	Transfer Point	10 %	OAC rule 3745-31-05
Conveyor shale waste	Transfer Point	10 %	OAC rule 3745-31-05
Secondary Line			
Scalping screen	Screen	10 %	NSPS, Subpart 000
Conveyor-D cross	Conveyor	10 %	OAC rule 3745-31-05
Conveyor-D stacker	Conveyor	10 %	OAC rule 3745-31-05
Converyor-2 trans	Conveyor	10 %	OAC rule 3745-31-05
Cone crusher	Crusher	15%	NSPS, Subpart 000
Feeder	Transfer Point	10 %	OAC rule 3745-31-05
Feeder	Transfer Point	10 %	OAC rule 3745-31-05
Feeder	Transfer Point	10 %	OAC rule 3745-31-05
Feeder	Transfer Point	10 %	OAC rule 3745-31-05
Feeder	Transfer Point	10 %	OAC rule 3745-31-05
Conveyor-pickup conveyor	Transfer Point	10 %	OAC rule 3745-31-05
Conveyor-surge stacker	Transfer Point	10 %	OAC rule 3745-31-05



Conveyor- tunnel belt	Transfer Point	10 %	OAC rule 3745-31-05
Conveyor-sizing tower	Transfer Point	10 %	OAC rule 3745-31-05
Conveyor-2 stacker	Transfer Point	10 %	OAC rule 3745-31-05
Screen	Screen	10 %	NSPS, Subpart OOO
Screen	Screen	10 %	NSPS, Subpart OOO
Conveyor-21 sizing screen pickup	Transfer Point	10 %	OAC rule 3745-31-05
Conveyor-22 sizing screen pickup	Transfer Point	10 %	OAC rule 3745-31-05
Conveyor-C23 to C24	Transfer Point	10 %	OAC rule 3745-31-05
Conveyor-dry transfer	Transfer Point	10 %	OAC rule 3745-31-05
Conveyor-dry stacker	Transfer Point	10 %	OAC rule 3745-31-05
Conveyor-surge tank	Transfer Point	10 %	OAC rule 3745-31-05
Cone crusher	Crusher	15%	NSPS, Subpart OOO
Cone crusher	Crusher	15%	NSPS, Subpart OOO
Conveyor-ISC belt	Transfer Point	10 %	OAC rule 3745-31-05
Conveyor-cone belt	Transfer Point	10 %	OAC rule 3745-31-05
Conveyor-return to C18	Transfer Point	10 %	OAC rule 3745-31-05
Conveyor-middle cross	Transfer Point	10 %	OAC rule 3745-31-05
Conveyor-lower cross to C34 or C23	Transfer Point	10 %	OAC rule 3745-31-05
Conveyor-2 nd transfer to C24	Transfer Point	10 %	OAC rule 3745-31-05
Conveyor-lime	Transfer Point	10 %	OAC rule 3745-31-05

conveyor			
Conveyor-top oversize cross belt	Transfer Point	10 %	OAC rule 3745-31-05
Conveyor-NA conveyor to 54 EKP cross	Transfer Point	10 %	OAC rule 3745-31-05
Conveyor-to log washer	Transfer Point	10 %	OAC rule 3745-31-05
Conveyor-to blade mill	Transfer Point	10 %	OAC rule 3745-31-05
Conveyor-4's to S4	Transfer Point	10 %	OAC rule 3745-31-05
Conveyor- cone pickup	Transfer Point	10 %	OAC rule 3745-31-05
Conveyor-EKP stacker	Transfer Point	10 %	OAC rule 3745-31-05
Conveyor- EKP transfer C24 or stacker	Transfer Point	10 %	OAC rule 3745-31-05

- b. The permittee shall employ the best available control measures for aggregate processing operations(s) 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.

Operation	Control Measure
Loading(truck dumping into a feeder, hopper, or crusher)	Maintain low drop heights
Plant conveyors & transfer points	Maintain low drop heights; maintain or apply sufficient water* to adequately control the fugitive dust emissions or use of a baghouse
Screening	Maintain or apply sufficient water* to adequately control the fugitive dust emissions or use of a baghouse
Crushing	Maintain or apply sufficient water* to adequately control the fugitive dust



	emissions or use of a baghouse
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*Except for periods when freezing temperatures prohibit use of water spray

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

- c. For each material handling operation that is not adequately enclosed, the above identified control measures shall be implemented if the permittee determines, as a result of an inspection conducted pursuant to the monitoring section of this permit, that the control measures are necessary to ensure compliance with the above-mentioned applicable requirements.
- d. Implementation of the above-mentioned control measure(s) in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the requirements of OAC rule 3745-31-05(A)(3).
- e. Visible emissions from the material processing operations shall not exceed the following opacity restrictions:

Operation	Opacity Limit
Loading (truck dumping into a feeder, hopper, or crusher)	20%, as a 3-minute average
screening	10%, as a 6-minute average
Emissions from any operations (screening, crushing, conveyor transfer points) which are captured and have a baghouse for control	7%, opacity for stack emissions; 10%, opacity for fugitive emissions
Conveyor transfer points, except as otherwise provided	10%, as a 6-minute average

See 1.b)(2)a. above for the regulatory basis of the opacity limit.

- f. The hourly mass emissions limitation outlined above in 1.b.(1) is based upon the emissions unit's potential to emit. Therefore, it is not necessary to develop recordkeeping and/or reporting requirements to demonstrate compliance with these limits.

The application and enforcement of the provisions of the New Source Performance Standards (NSPS), as promulgated by the United States Environmental Protection Agency, 40 CFR Part 60, are delegated to the Ohio Environmental Protection Agency. The requirements of 40 CFR Part 60 are also federally enforceable.

c) Operational Restrictions

- (1) The permittee shall operate and maintain the water spray control system for the crushers, screens, and conveyor transfer points when the crushers, screens, and/or conveyor transfer points are in use.

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall perform daily inspections of the water spray system to ensure proper operation of spray nozzles, water pumps, and associated equipment. Either the proper operation or a malfunction of the control system shall be noted in an operations log. If a malfunction of the spray system is observed, the permittee shall also record the following in the operations log:

- a. period of time when the water spray system is not in operation while aggregate is being processed;
- b. corrective actions taken to minimize or eliminate visible emissions during the control equipment malfunction, and;
- c. corrective actions taken to repair the water spray control system.

- (2) The permittee shall perform daily checks, when each piece of crushing equipment is in operation and when the weather conditions allow, for any visible fugitive particulate emissions from each crushing, screening and conveying operation. 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. whether the emissions are representative of normal operations;
- b. if the emissions are not representative of normal conditions, the cause of the abnormal emissions;
- c. the estimated total duration of any visible emissions incident which exceeds the specified opacity limitations in b)(2)a.; and
- d. any corrective actions taken to eliminate the visible emissions.

The log shall be maintained on-site and available upon request by Ohio EPA representatives

- (3) 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 a daily 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. The acceptable pressure drop shall be based upon the manufacturer's specifications and between 4-6 inches of water until such time as any required performance testing is conducted and the appropriate range is established to demonstrate compliance.

Whenever the monitored value for the pressure drop deviates from the limit or range established in accordance with this permit 4-6 inches of water, 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 Portsmouth 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 an administrative modification.

e) Reporting Requirements

- (1) Annual Permit Evaluation Report (PER) forms will be mailed to the permittee at the end of the reporting period specified in the Authorization section of this permit. The permittee

shall submit the PER in the form and manner provided by the director by the due date identified in the Authorization section of this permit. The permit evaluation report shall cover a reporting period of no more than twelve-months for each air contaminant source identified in this permit. It is recommended that the PER is submitted electronically through the Ohio EPA's "e-Business Center: Air Services" although PERs can be submitted via U.S. postal service or can be hand delivered.

- (2) The permittee shall identify in the annual permit evaluation report the following information concerning the operations of the baghouse during the 12-month reporting period for this/these emissions unit(s):
 - 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 range specified by the manufacturer (4-6 lbs) and outside of the acceptable range following any required compliance demonstration;
 - 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 "a" (above) where a prompt investigation was not conducted;
 - d. each incident of deviation described in "a" 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 "a" 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.
- (3) The permittee shall identify in the annual permit evaluation report the following information concerning the operations of the water spray system during the 12-month reporting period for this/these emissions unit(s):
 - a. any period of time when the water spray system was not in operation while aggregate was being processed and;
 - b. each day during which an inspection was not performed by the required frequency; and
 - c. each instance when a control measure, that was to be performed as a result of an inspection, was not implemented.
- (4) 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.
- b. For a screening operation:
 - i. The total surface area of the top screen of the existing screening operation being replaced, and
 - ii. The total surface area of the top screen of the replacement screening operation.
- c. For a conveyor belt:
 - i. The width of the existing belt being replaced, and
 - ii. The width of the replacement conveyor belt.
- d. For a storage bin;
 - i. The rated capacity in tons of the existing storage bin being replaced, and
 - ii. The rated capacity in tons of the replacement storage bins.

The notification shall be submitted to the Portsmouth Local Air Agency within 30 days after the equipment replacement.

- (5) The permittee shall submit written reports of the results of all performance test 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 as specified in f)(2)f. below.
- f) Testing Requirements
- (1) Compliance with the Emission 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 Limitations:

Fugitive PE shall not exceed 15.95 pounds per hour and 69.81 tons per year.

Applicable Compliance Method:

Compliance shall be demonstrated by calculating the sum of the emissions from each piece of equipment (crushers, screens, transfer points). Calculate the emissions from each piece of equipment by multiplying the maximum process rate, in tons per hour, times the appropriate controlled PE factors in pound per ton from AP-42 Section 11.19.2-2, dated 08/04.

The 69.81 tons per year limitation was developed by multiplying the hourly limitation (15.95pounds per hour) by the maximum operating schedule of 8760 hours per year, and dividing by 2000 pounds per ton. Therefore, provided

compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

b. Emission Limitations:

Fugitive PM10 shall not exceed 4.48 pounds per hour and 19.62 tons per year.

Applicable Compliance Method:

Compliance shall be demonstrated by calculating the sum of the emissions from each piece of equipment (crushers, screens, transfer points). Calculate the emissions from each piece of equipment by multiplying the maximum process rate, in tons per hour, times the appropriate controlled PM10 emissions factors in pound per ton from AP-42Section 11.19.2-2, dated 08/04.

The 19.62 tons per year limitation was developed by multiplying the hourly limitation (4.48 pounds per hour) by the maximum operating schedule of 8760 hours per year, and dividing by 2000 pounds per ton. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

c. Emission Limitation:

0.03 gr/dscf and 5.8 pounds per hour of PE from the baghouse stack

Applicable Compliance Method:

Compliance shall be demonstrated in accordance with the testing requirements specified in section f)(2) below, the procedures in 40 CFR Part 60, Method 1 through 5, and the methods and procedures required in OAC rule 3745-17-03(B)(10).

The lb/hr emission limitation was derived from the manufacturer's grain loading rate of 0.03 gr/dscf times lb/7000gr times 22,580 acfm/min times 60 min/hr.

d. Emission Limitation:

PE baghouse stack emissions shall not exceed 25.40 tons per year.

Applicable Compliance Method:

The 25.40 tons/yr limitation was developed by multiplying the hourly limitation (5.8 lbs/hr) by the maximum operating schedule of 8760 hours/yr, and dividing by 2000 lbs/ton. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

e. Emission Limitation:

Visible PE limitations identified in sections b)(2)a and b)(2)e.

Applicable Compliance Method:

The permittee shall demonstrate compliance through the testing requirements contained in section f)(2)b.ii.below. The Method 9 testing shall be conducted for the new conveyors, and new two deck screen.

(2) Emissions Testing Requirements

The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:

The emission testing shall be conducted within 60 days after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after initial startup of such facility and at such other times as may be required by the Portsmouth Local Air Agency.

- a. The emission testing shall be conducted to demonstrate compliance with the allowable concentration of particulate emissions (PE) in the exhaust stream
- b. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s) and emission factors:
 - i. for PE: 40 CFR Part 60, Appendix A, Methods 1 through 4 and Method 5;
 - ii. Compliance shall be determined through visible emission observations performed in accordance with Method 9 of 40 CFR Part 60, Appendix A, using the methods and procedures specified in 40 CFR 60.675.

Alternative U.S. EPA approved test methods may be used with prior approval from the Portsmouth Local Air Agency.

- c. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Portsmouth Local Air Agency.
- d. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Portsmouth 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 Portsmouth Local Air Agency's refusal to accept the results of the emission test(s).
- e. Personnel from the Portsmouth 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.



f. A comprehensive written report on the results of the emissions test(s) shall be designed by the person or persons responsible for the tests and submitted to the Portsmouth Local Air Agency within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Portsmouth Local Air Agency.

g) Miscellaneous Requirements

(1) None.