



Environmental Protection Agency

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

12/28/2011

Mr. Dean Daenens
GLENN HUNTER AND ASSOCIATES
3672 County Road 6-1
Delta, OH 43515

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

Facility ID: 0326000074
Permit Number: P0108766
Permit Type: Initial Installation
County: Fulton

Certified Mail

No	TOXIC REVIEW
No	PSD
No	SYNTHETIC MINOR TO AVOID MAJOR NSR
No	CEMS
No	MACT/GACT
No	NSPS
No	NESHAPS
No	NETTING
No	MAJOR NON-ATTAINMENT
No	MODELING SUBMITTED
No	SYNTHETIC MINOR TO AVOID TITLE V
No	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 Ohio EPA DAPC, Northwest District Office at (419)352-8461 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: Ohio EPA-NWDO



FINAL

**Division of Air Pollution Control
Permit-to-Install and Operate
for
GLENN HUNTER AND ASSOCIATES**

Facility ID:	0326000074
Permit Number:	P0108766
Permit Type:	Initial Installation
Issued:	12/28/2011
Effective:	12/28/2011
Expiration:	12/28/2021



Division of Air Pollution Control
Permit-to-Install and Operate
for
GLENN HUNTER AND ASSOCIATES

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Authorization

Facility ID: 0326000074
Application Number(s): A0042779
Permit Number: P0108766
Permit Description: Discarded brick /refractory, and slag from steel plants - material processing /recycling operations (moved from old location)
Permit Type: Initial Installation
Permit Fee: \$4,100.00
Issue Date: 12/28/2011
Effective Date: 12/28/2011
Expiration Date: 12/28/2021
Permit Evaluation Report (PER) Annual Date: Oct 1 - Sept 30, Due Nov 15

This document constitutes issuance to:

GLENN HUNTER AND ASSOCIATES
1286 County Road 6
Delta, OH 43515

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

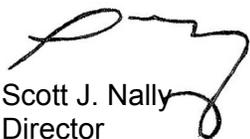
Ohio EPA District Office or local air agency responsible for processing and administering your permit:

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

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: P0108766
Permit Description: Discarded brick /refractory, and slag from steel plants - material processing /recycling operations (moved from old location)

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

Emissions Unit ID: F001
Company Equipment ID: F001
Superseded Permit Number:
General Permit Category and Type: Not Applicable

Emissions Unit ID: F002
Company Equipment ID: F002
Superseded Permit Number:
General Permit Category and Type: Not Applicable

Emissions Unit ID: F003
Company Equipment ID: F003
Superseded Permit Number:
General Permit Category and Type: Not Applicable

Emissions Unit ID: F004
Company Equipment ID: F004
Superseded Permit Number:
General Permit Category and Type: Not Applicable

Emissions Unit ID: F005
Company Equipment ID: F005
Superseded Permit Number:
General Permit Category and Type: Not Applicable

Emissions Unit ID: F006
Company Equipment ID: F006
Superseded Permit Number:
General Permit Category and Type: Not Applicable

Emissions Unit ID: F007
Company Equipment ID: F007
Superseded Permit Number:
General Permit Category and Type: Not Applicable

Emissions Unit ID: P901
Company Equipment ID: P901
Superseded Permit Number:
General Permit Category and Type: Not Applicable

Emissions Unit ID: P902
Company Equipment ID: P902
Superseded Permit Number:
General Permit Category and Type: Not Applicable

Emissions Unit ID: P903
Company Equipment ID: P903
Superseded Permit Number:
General Permit Category and Type: Not Applicable

Emissions Unit ID: P904

Company Equipment ID: P904
Superseded Permit Number:
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 Ohio EPA DAPC, Northwest District Office 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. F001

Operations, Property and/or Equipment Description:

Bagger/Sewing machine(various materials) - with front-end loader feed to hopper, conveyor to bagger [CS-8]

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 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)	0.153 tons fugitive particulate emissions (PE) /year 0.056 tons fugitive particulate matter less than 10 microns in size (PM ₁₀) /year best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust [See b)(2)a through b)(2)d.] Opacity Restrictions [See b)(2)e.]
b.	OAC rule 3745-17-07(B)(1)	See b)(2)f.
c.	OAC rule 3745-17-08(B)(1)	See b)(2)g.

- (2) Additional Terms and Conditions
- a. The following material handling operations are covered by this permit: two material transfer points - hopper loading and bagging.
 - b. The permittee shall employ best available control measures for the above-identified material handling 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: reduced drop heights for hopper loading and conveyor.
 - c. For each material handling 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 material handling operation(s) until further observation confirms that use of the control measure(s) is unnecessary.
 - 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 particulate emissions (PE) shall not exceed 20% opacity as a 3-minute average from the material handling operations for this emissions unit.
 - f. 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).
 - g. The facility 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).
- c) Operational Restrictions
- (1) The permittee shall not exceed a material processing (i.e. bagging) throughput of 51,100 tons per year for this emissions unit.
- d) Monitoring and/or Recordkeeping Requirements
- (1) The permittee shall maintain monthly records of the amount of material processed in this emissions unit (in tons per month and total tons, to date for the calendar year).
 - (2) Except as otherwise provided in this section, for material handling operations that are not adequately enclosed, the permittee shall perform visible emission inspections of such operations during representative, normal operating conditions in accordance with the following minimum frequencies:



Operation	Minimum Inspection Frequency
hopper loading	once per day of operation
bagging	once per day of operation

- (3) The permittee shall maintain daily 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)(3)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.

e) Reporting Requirements

- (1) The permittee shall submit an annual Permit Evaluation Report (PER) to the Ohio EPA District Office or Local Air Agency 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 the following information in the annual PER in accordance with the monitoring requirements for visible emissions in d)(2) and d)(3) above:
 - a. each day during which an inspection was not performed by the required frequency; and
 - b. each instance when a control measure, that was to be performed as a result of an inspection, was not implemented.

The above information shall be provided as an attachment to the PER. If there were no day(s) and/or corrective action(s) to identify as required above, the permittee shall indicate within the "Additional Information and Corrections" section of the PER that no visible emissions were observed and no corrective actions were taken.

- (3) The permittee shall also include in the PER (or attachment) the total material throughput for the most recently completed calendar year.

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:
0.153 ton fugitive PE /yr

Applicable Compliance Method:

The emission limitation was established by multiplying an emission factor from AP-42, section 11.19.2 (Aug 04) of 0.003lbs PE/ton of production by a maximum annual throughput of 51,100 tons (x2 transfer points) and by a conversion factor of ton/2000 lbs.

Therefore, provided compliance is shown with the maximum annual material throughput, compliance with the annual PE emissions limitation shall also be demonstrated.

b. Emission Limitation:
0.056 ton fugitive PM₁₀ /yr

Applicable Compliance Method:

The emission limitation was established by multiplying an emission factor from AP-42, section 11.19.2 (Aug 04) of 0.0011 lbsPM₁₀/ton of production by a maximum annual throughput of 51,100tons (x2 transfer points) and by a conversion factor of ton/2000 lbs.

Therefore, provided compliance is shown with the maximum annual material throughput, compliance with the annual PM₁₀ emissions limitation shall also be demonstrated.

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

Applicable Compliance Method:

If required, compliance with the visible emission limitation shall be determined in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources") as such Appendix existed on July 1, 2002, and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(c) of OAC rule 3745-17-03.

g) Miscellaneous Requirements

(1) None.



2. F002

Operations, Property and/or Equipment Description:

Conveyor - portable, on-site - 10 tons per hour (various materials) [CS-9]

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 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)	0.153 tons fugitive particulate emissions (PE) /year 0.028 tons fugitive particulate matter less than 10 microns in size (PM ₁₀) /year best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust [See b)(2)a through b)(2)d.] Opacity Restrictions [See b)(2)e.]
b.	OAC rule 3745-17-07(B)(1)	See b)(2)f.
c.	OAC rule 3745-17-08(B)(1)	See b)(2)g.

(2) Additional Terms and Conditions

a. The following material handling operations are covered by this permit: two material conveyor transfer points.

- b. The permittee shall employ best available control measures for the above-identified material handling 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: reduced drop heights for conveyor load-out.
- c. For each material handling 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 material handling operation(s) until further observation confirms that use of the control measure(s) is unnecessary.
- 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 particulate emissions (PE) shall not exceed 20% opacity as a 3-minute average from the material handling operations for this emissions unit.
- f. 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).
- g. The facility 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).

c) **Operational Restrictions**

- (1) The permittee shall not exceed a material throughput of 51,100 tons per year for this emissions unit.

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

- (1) The permittee shall maintain monthly records of the amount of material processed in this emissions unit (in tons per month and total tons, to date for the calendar year).
- (2) Except as otherwise provided in this section, for material handling operations that are not adequately enclosed, the permittee shall perform visible emission inspections of such operations during representative, normal operating conditions in accordance with the following minimum frequencies:

Operation	Minimum Inspection Frequency
conveyor transfer points	once per day of operation

- (3) The permittee shall maintain daily 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)(3)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.

e) Reporting Requirements

- (1) The permittee shall submit an annual Permit Evaluation Report (PER) to the Ohio EPA District Office or Local Air Agency 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 the following information in the annual PER in accordance with the monitoring requirements for visible emissions in d)(2) and d)(3) above:
- a. each day during which an inspection was not performed by the required frequency; and
 - b. each instance when a control measure, that was to be performed as a result of an inspection, was not implemented.

The above information shall be provided as an attachment to the PER. If there were no day(s) and/or corrective action(s) to identify as required above, the permittee shall indicate within the "Additional Information and Corrections" section of the PER that no visible emissions were observed and no corrective actions were taken.

- (3) The permittee shall also include in the PER (or attachment) the total material throughput for the most recently completed calendar year.

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:
0.153 ton fugitive PE /yr

Applicable Compliance Method:

The emission limitation was established by multiplying an emission factor from AP-42, section 11.19.2 (Aug 04) of 0.003lbs PE/ton of production by a maximum annual throughput of 51,100 tons (x2 transfer points) and by a conversion factor of ton/2000 lbs.

Therefore, provided compliance is shown with the maximum annual material throughput, compliance with the annual PE emissions limitation shall also be demonstrated.

- b. Emission Limitation:
0.028 ton fugitive PM₁₀ /yr

Applicable Compliance Method:

The emission limitation was established by multiplying an emission factor from AP-42, section 11.19.2 (Aug 04) of 0.0011 lbsPM₁₀/ton of production by a maximum annual throughput of 51,100 tons (x2 transfer points) and by a conversion factor of ton/2000 lbs.

Therefore, provided compliance is shown with the maximum annual material throughput, compliance with the annual PM₁₀ emissions limitation shall also be demonstrated.

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

Applicable Compliance Method:

If required, compliance with the visible emission limitation shall be determined in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources") as such Appendix existed on July 1, 2002, and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(c) of OAC rule 3745-17-03.

- g) Miscellaneous Requirements

- (1) None.

3. F003

Operations, Property and/or Equipment Description:

Screeener - 'Sandvik'(various materials) - with hopper, conveyors- with I.C. engine drive (Caterpillar 4.4 CC) [CS-10]

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 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 3745-31-05(A)(3)	3.17 tons fugitive particulate emissions (PE) /year 1.11 tons fugitive particulate matter less than 10 microns in size (PM ₁₀) /year best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust [See b)(2)c and b)(2)d.] Opacity Restrictions [See b)(2)b.] See b)(2)a.
b.	OAC rule 3745-17-07(B)(1)	See b)(2)e.
c.	OAC rule 3745-17-08(B)(1)	See b)(2)f.

(2) Additional Terms and Conditions

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

Equipment Description	Regulatory Basis
"Sandvik" screener	OAC 3745-31-05
conveyor load-in	OAC 3745-31-05
conveyor - load-in	OAC 3745-31-05
conveyor - load-out 1	OAC 3745-31-05
conveyor - load-out 2	OAC 3745-31-05
conveyor - load-out 3	OAC 3745-31-05

- b. Visible particulate emissions from the material processing operations in b)(1)a shall not exceed the following opacity restrictions:

Operation	Opacity Limit
screening	10%, as a 6-minute average
conveyor transfer points	10%, as a 6-minute average

- c. The permittee shall employ best available control measures for the above-identified material handling 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: reduced drop heights for conveyor load-out.
- d. For each material handling 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 material handling operation(s) until further observation confirms that use of the control measure(s) is unnecessary.
- e. 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).

- f. 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).
- g. The facility 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).

c) **Operational Restrictions**

- (1) The permittee shall not exceed a material throughput of 204,400 tons per year for this emissions unit.

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

- (1) The permittee shall maintain monthly records of the amount of material processed in this emissions unit (in tons per month and total tons, to date for the calendar year).
- (2) Except as otherwise provided in this section, for material handling operations that are not adequately enclosed, the permittee shall perform visible emission inspections of such operations during representative, normal operating conditions in accordance with the following minimum frequencies:

Operation	Minimum Inspection Frequency
screening	once per day of operation
conveyor transfer points	once per day of operation

- (3) The permittee shall maintain daily 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)(3)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.

e) **Reporting Requirements**

- (1) The permittee shall submit an annual Permit Evaluation Report (PER) to the Ohio EPA District Office or Local Air Agency 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 the following information in the annual PER in accordance with the monitoring requirements for visible emissions in d)(2) and d)(3) above:
- a. each day during which an inspection was not performed by the required frequency; and
 - b. each instance when a control measure, that was to be performed as a result of an inspection, was not implemented.

The above information shall be provided as an attachment to the PER. If there were no day(s) and/or corrective action(s) to identify as required above, the permittee shall indicate within the "Additional Information and Corrections" section of the PER that no visible emissions were observed and no corrective actions were taken.

- (3) The permittee shall also include in the PER (or attachment) the total material throughput for the most recently completed calendar year.

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:
3.17 ton fugitive PE /yr

Applicable Compliance Method:

The emission limitation was established by addition of the following:

- i. multiplying an emission factor from AP-42, section 11.19.2 (Aug 04) of 0.025lbs PE/ton of production (for the screener) by a maximum annual throughput of 204,400 tons and by a conversion factor of ton/2000 lbs; [2.56 ton/yr] and
- ii. multiplying an emission factor from AP-42, section 11.19.2 (Aug 04) of 0.003lbs PE/ton of production by a maximum annual throughput of 51,100 tons (x4 conveyors, x2 transfer points each) and by a conversion factor of ton/2000 lbs. [0.61 ton/yr]

Therefore, provided compliance is shown with the maximum annual material throughput, compliance with the annual PE emissions limitation shall also be demonstrated.

- b. Emission Limitation:
1.11 ton fugitive PM₁₀ /yr

Applicable Compliance Method:

The emission limitation was established by addition of the following:

- i. multiplying an emission factor from AP-42, section 11.19.2 (Aug 04) of 0.0087lbs PM₁₀/ton of production (for the screener) by a maximum annual throughput of 204,400 tons and by a conversion factor of ton/2000 lbs. [0.89 ton/yr]
- ii. multiplying an emission factor from AP-42, section 11.19.2 (Aug 04) of 0.0011lbs PM₁₀/ton of production by a maximum annual throughput of 51,100 tons (x4 conveyors, x2 transfer points each) and by a conversion factor of ton/2000 lbs. [0.22 ton/yr]

Therefore, provided compliance is shown with the maximum annual material throughput, compliance with the annual PM₁₀ emissions limitation shall also be demonstrated.

- c. Emission Limitation:
Visible fugitive PE shall not exceed 10 percent opacity, as a six-minute average

Applicable Compliance Method:

If required, compliance with the visible emission limitation shall be determined in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources") as such Appendix existed on July 1, 2002, and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(c) of OAC rule 3745-17-03.

- g) Miscellaneous Requirements
 - (1) None.



4. F004

Operations, Property and/or Equipment Description:

Roadways and Parking Areas

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 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)	0.58 tons fugitive particulate emissions (PE) /yr 0.14 tons fugitive particulate matter less than 10 microns (PM ₁₀)/yr no visible PE, except for a period of time not to exceed three minutes during any 60-minute observation period best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust [See b)(2)a through b)(2)f.]
b.	OAC rule 3745-17-07(B)	See b)(2)g.
c.	OAC rule 3745-17-08(B)	See b)(2)h.

(2) Additional Terms and Conditions

- a. The unpaved roadways and parking areas that are subject to the terms and conditions of this permit are listed below:

unpaved roadways: all unpaved road segments
unpaved parking areas: all unpaved parking areas

- b. The permittee shall employ best 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 watering or other suitable dust suppression chemicals, at sufficient treatment frequencies to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other equally-effective control measures to ensure compliance.
- c. 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 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.
- d. The permittee shall promptly remove, in such a manner as to minimize or prevent re-suspension, 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.
- e. 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.
- 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 best available technology requirements of OAC rule 3745-31-05.
- g. 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).
- h. The facility 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).

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 the roadways and parking areas in accordance with the following frequencies:

<u>unpaved roadways and parking areas:</u>	<u>minimum inspection frequency:</u>
All	Once per day of operation

- (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.

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

- 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;
- the date of each inspection where it was determined by the permittee that it was necessary to implement the control measures;
- the dates the control measures were implemented; and
- 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 d(3)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.

e) Reporting Requirements

- (1) The permittee shall submit an annual Permit Evaluation Report (PER) to the Ohio EPA District Office or Local Air Agency 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 PER the following occurrences concerning inspection and control measure requirements:

- 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.

The above information shall be provided as an attachment to the PER. If there were no day(s) and/or corrective action(s) to identify as required above, the permittee shall indicate within the "Additional Information and Corrections" section of the PER that no visible emissions were observed and no corrective actions were taken.

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:
0.58 tons fugitive PE /yr

Applicable Compliance Method:

The emission limitation was established by applying a 95% control efficiency for use of best available control measure(s) to a maximum potential uncontrolled emission rate of 11.6 ton/yr. The maximum potential uncontrolled emission rate was calculated by multiplying an emission factor of 7.01lb per vehicle mile traveled [AP-42, section 13.2.1.2 (10/97)] by a maximum annual vehicle miles traveled of 3317 and dividing by 2000 lbs per ton.

Therefore, provided compliance is shown with the requirements of this permit to apply best available control measures, compliance with the ton per year PE limitation shall also be demonstrated.

- b. Emission Limitation:
0.14 tons fugitive PM₁₀ /yr

Applicable Compliance Method:

The emission limitation was established by applying a 95% control efficiency for use of best available control measure(s) to a maximum potential uncontrolled emission rate of 2.84 ton/yr. The maximum potential uncontrolled emission rate was calculated by multiplying an emission factor of 1.71lb per vehicle mile traveled [AP-42, section 13.2.1.2 (10/97)] by a maximum annual vehicle miles traveled of 3317 and dividing by 2000 lbs per ton.

Therefore, provided compliance is shown with the requirements of this permit to apply best available control measures, compliance with the ton per year PM₁₀ limitation shall also be demonstrated.

- c. Emission Limitation:
no visible PE, except for a period of time not to exceed one minute during any 60-minute observation period for paved roadways and parking areas

Applicable Compliance Method:

Compliance with the visible emission limitation specified above shall be determined in accordance with Test Method 22 as set forth in "Appendix on Test

Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(c) of OAC rule 3745-17-03.

d. Emission Limitation:

no visible PE, except for a period of time not to exceed three minutes during any 60-minute observation period for unpaved roadways and parking areas

Applicable Compliance Method:

Compliance with the visible emission limitation specified above shall be determined in accordance with Test Method 22 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 2002, and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(d) of OAC rule 3745-17-03.

g) Miscellaneous Requirements

(1) None.



5. F005

Operations, Property and/or Equipment Description:

Storage Piles, and associated conveying /material transfer (various materials)

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 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)	3.98 tons/year of fugitive particulate emissions (PE) 1.90 tons/year of fugitive particulate matter of 10 microns or less (PM ₁₀) no visible PE except for one minute during any 60-minute period best available control measures that are sufficient to minimize or eliminate visible PE of fugitive dust (See b)(2)a. through b)(2)f.)
b.	OAC rule 3745-17-07(B)(1)	See b)(2)g.
c.	OAC rule 3745-17-08(B)(1)	See b)(2)h.

(2) Additional Terms and Conditions

- a. The permittee shall employ best 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 application, the permittee has committed to maintain minimal drop heights for stackers and front-loaders, and chemical stabilization/dust suppressants and/or watering/sprinkling systems at sufficient treatment frequencies to ensure compliance.
- b. The operator shall avoid dragging any front-end loader bucket along the ground. 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 best 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 application, the permittee has committed to perform one or more of the following: chemical stabilization, watering/sprinkling systems/hoses, covering the storage piles, 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 3745-31-05(A)(3).
- g. 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).
- h. The facility 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).

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 load-in /load-out operation at each storage pile in accordance with the following frequencies:

<u>storage pile identification</u>	<u>minimum load-in inspection frequency</u>
all	daily

- (2) 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:

<u>storage pile identification</u>	<u>minimum wind erosion inspection frequency</u>
all	daily

- (3) 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.

- (4) 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.

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

- 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.
- the date of each inspection where it was determined by the permittee that it was necessary to implement the control measures.
- the dates the control measures were implemented.
- 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)(5)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.

e) Reporting Requirements

- (1) The permittee shall submit an annual Permit Evaluation Report (PER) to the Ohio EPA District Office or Local Air Agency 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 the following information in the annual PER in accordance with the monitoring requirements for visible emissions in d)(1) through d)(5) above:
 - 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.
 - b. each instance when a control measure, that was to be performed as a result of an inspection, was not implemented.
- (3) The above information shall be provided as an attachment to the PER. If there were no day(s) and/or corrective action(s) to identify as required above, the permittee shall indicate within the "Additional Information and Corrections" section of the PER that no visible emissions were observed and no corrective actions were taken.

The permittee shall also include in the PER (or attachment) the total material throughput for the most recently completed calendar year.

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:
3.98 ton fugitive PE /yr

Applicable Compliance Method:
The annual PE emissions limitation was established by adding all of the following amounts (and converting to tons per year):
 - i. for refractory: using the emission factor equation from AP-42 Section 13.2.4 (Nov 06) for PE for load-in /load-out, and a maximum of 50,000 tons per year throughput (x2), and a moisture content of 0.7%, and a mean wind speed of 9.5 miles per hour. [1.18 ton/yr]
 - ii. for slag: using the emission factor equation from AP-42 Section 13.2.4 (Nov 06) for PE for load-in /load-out, and a maximum of 50,000 tons per year throughput (x2), and a moisture content of 0.92%, and a mean wind speed of 9.5 miles per hour. [0.82 ton/yr]

- iii. for refractory: using the emission factor from AP-42 Section 8.19.1 (Sep 85) of 3.5 lb/acre-day of PE for wind erosion, and a pile area of 2.9 acres, and 365 days per year. [1.85 ton/yr]
- iv. for slag: using the emission factor from AP-42 Section 8.19.1 (Sep 85) of 3.5 lb/acre-day of PE for wind erosion, and a pile area of 0.2 acres, and 365 days per year. [0.13 ton/yr]

Therefore, provided compliance is shown with the requirements of this permit to apply best available control measures, compliance with the ton per year PE limitation shall also be demonstrated.

- b. Emission Limitation:
1.90 ton fugitive PM₁₀ /yr

Applicable Compliance Method:

The annual PM₁₀ emissions limitation was established by adding all of the following amounts (and converting to tons per year):

- i. for refractory: using the emission factor equation from AP-42 Section 13.2.4 (Nov 06) for PM₁₀ for load-in /load-out, and a maximum of 50,000 tons per year throughput (x2), and a moisture content of 0.7%, and a mean wind speed of 9.5 miles per hour. [0.56 ton/yr]
- ii. for slag: using the emission factor equation from AP-42 Section 13.2.4 (Nov 06) for PM₁₀ for load-in /load-out, and a maximum of 50,000 tons per year throughput (x2), and a moisture content of 0.92%, and a mean wind speed of 9.5 miles per hour. [0.38 ton/yr]
- iii. for refractory: using the emission factor from AP-42 Section 8.19.1 (Sep 85) of 1.7 lb/acre-day of PM₁₀ for wind erosion, and a pile area of 2.9 acres, and 365 days per year. [0.90 ton/yr]
- iv. for slag: using the emission factor from AP-42 Section 8.19.1 (Sep 85) of 1.7 lb/acre-day of PM₁₀ for wind erosion, and a pile area of 0.2 acres, and 365 days per year. [0.06 ton/yr]

Therefore, provided compliance is shown with the requirements of this permit to apply best available control measures, compliance with the ton per year PM₁₀ limitation shall also be demonstrated.

- c. Emission Limitation:
no visible PE except for one minute during any 60-minute period

Applicable Compliance Method:

Compliance with the visible PE limitations for the storage piles identified above shall be determined in accordance with Test Method 22 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources").

- g) Miscellaneous Requirements
 - (1) None.



6. F006

Operations, Property and/or Equipment Description:

'Jaw' Crusher, with hopper (gravity-fed) and conveyor (various materials) [CS-1]

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 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)	1.66 tons fugitive particulate emissions (PE) /year 1.18 tons fugitive particulate matter less than 10 microns in size (PM ₁₀) /year best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust [See b)(2)athrough b)(2)e.] Opacity Restrictions [See b)(2)b.]
b.	OAC rule 3745-17-07(B)(1)	See b)(2)f.
c.	OAC rule 3745-17-08(B)(1)	See b)(2)g.

(2) Additional Terms and Conditions

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



Equipment Description	Regulatory Basis
'Jaw' Crusher	OAC 3745-31-05
front-end loader to feed hopper (or by-hand manual load-in directly to crusher)	OAC 3745-31-05
conveyor - load-out	OAC 3745-31-05

- b. Visible particulate emissions from the material processing operations in b)(1)a shall not exceed the following opacity restrictions:

Operation	Opacity Limit
crushing	15%, as a 6-minute average
load-in /load-out	10%, as a 6-minute average
conveyor transfer points	10%, as a 6-minute average

- c. The permittee shall employ best available control measures for the above-identified material handling 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: reduced drop heights for load-in /load-out.
- d. For each material handling 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 material handling operation(s) until further observation confirms that use of the control measure(s) is unnecessary.
- e. 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).
- f. 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).
- g. The facility 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).

c) Operational Restrictions

- (1) The permittee shall not exceed a material throughput of 255,500 tons per year for this emissions unit.

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall maintain monthly records of the amount of material processed in this emissions unit (in tons per month and total tons, to date for the calendar year).
- (2) Except as otherwise provided in this section, for material handling operations that are not adequately enclosed, the permittee shall perform visible emission inspections of such operations during representative, normal operating conditions in accordance with the following minimum frequencies:

Operation	Minimum Inspection Frequency
crushing	once per day of operation
load-in /load-out	once per day of operation
conveyor transfer points	once per day of operation

- (3) The permittee shall maintain daily 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)(3)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.

e) Reporting Requirements

- (1) The permittee shall submit an annual Permit Evaluation Report (PER) to the Ohio EPA District Office or Local Air Agency 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 the following information in the annual PER in accordance with the monitoring requirements for visible emissions in d)(2) and d)(3) above:
- a. each day during which an inspection was not performed by the required frequency; and
 - b. each instance when a control measure, that was to be performed as a result of an inspection, was not implemented.

The above information shall be provided as an attachment to the PER. If there were no day(s) and/or corrective action(s) to identify as required above, the permittee shall indicate within the "Additional Information and Corrections" section of the PER that no visible emissions were observed and no corrective actions were taken.

- (3) The permittee shall also include in the PER (or attachment) the total material throughput for the most recently completed calendar year.

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:
1.66 ton fugitive PE /yr

Applicable Compliance Method:

The emission limitation was established by addition of the following:

- i. multiplying an emission factor from AP-42, section 11.19.2 (background document) of 0.007lbs PE/ton of production (for the crusher) by a maximum annual throughput of 255,500 tons and by a conversion factor of ton/2000 lbs. [0.89 ton/yr]
- ii. multiplying an emission factor from AP-42, section 11.19.2 (Aug 04) of 0.003lbs PE/ton of production by a maximum annual throughput of 255,500 tons (x2 transfer points) and by a conversion factor of ton/2000 lbs. [0.77 ton/yr]

Therefore, provided compliance is shown with the maximum annual material throughput, compliance with the annual PE emissions limitation shall also be demonstrated.

- b. Emission Limitation:
1.18 ton fugitive PM₁₀ /yr

Applicable Compliance Method:

The emission limitation was established by addition of the following:

- i. multiplying an emission factor from AP-42, section 11.19.2 (background document) of 0.007lbs PM₁₀/ton of production (for the crusher) by a

maximum annual throughput of 255,500 tons and by a conversion factor of ton/2000 lbs. [0.89 ton/yr] (assume worst-case that all PE is PM₁₀)

- ii. multiplying an emission factor from AP-42, section 11.19.2 (Aug 04) of 0.0011lbs PM₁₀/ton of production by a maximum annual throughput of 255,500 tons (x2 transfer points) and by a conversion factor of ton/2000 lbs.[0.28 ton/yr]

Therefore, provided compliance is shown with the maximum annual material throughput, compliance with the annual PM₁₀ emissions limitation shall also be demonstrated.

- c. Emission Limitation:
Visible fugitive PE shall not exceed 15 percent opacity, as a six-minute average (crushing)

Applicable Compliance Method:

If required, compliance with the visible emission limitation shall be determined in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources") as such Appendix existed on July 1, 2002, and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(c) of OAC rule 3745-17-03.

- d. Emission Limitation:
Visible fugitive PE shall not exceed 10 percent opacity, as a six-minute average (load-in /load-out, conveying)

Applicable Compliance Method:

If required, compliance with the visible emission limitation shall be determined in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources") as such Appendix existed on July 1, 2002, and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(c) of OAC rule 3745-17-03.

- g) Miscellaneous Requirements

- (1) None.

7. F007

Operations, Property and/or Equipment Description:

Crusher, Screener - 'Terex' (various materials) - with hopper, conveyors [CS-2] - with I.C. engine drive (Deutsch - 85 HP) [CS-6]

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 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)	1.21 tons fugitive particulate emissions (PE) /year 0.52 tons fugitive particulate matter less than 10 microns in size (PM ₁₀) /year best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust [See b)(2)through b)(2)e.] Opacity Restrictions [See b)(2)b.]
b.	OAC rule 3745-17-07(B)(1)	See b)(2)f.
c.	OAC rule 3745-17-08(B)(1)	See b)(2)g.

(2) Additional Terms and Conditions

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

Equipment Description	Regulatory Basis
"Terex" crusher	OAC 3745-31-05
"Terex" screener	OAC 3745-31-05
conveyor load-in	OAC 3745-31-05
conveyor - load-in	OAC 3745-31-05
conveyor - load-out 1	OAC 3745-31-05
conveyor - load-out 2	OAC 3745-31-05
conveyor - load-out 3	OAC 3745-31-05
conveyor - load-out 4A	OAC 3745-31-05
conveyor - load-out 4B	OAC 3745-31-05

- b. Visible emissions from the material processing operations in b)(1)a shall not exceed the following opacity restrictions:

Operation	Opacity Limit
crushing	15%, as a 6-minute average
screening	10%, as a 6-minute average
conveyor transfer points	10%, as a 6-minute average

- c. The permittee shall employ best available control measures for the above-identified material handling 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: water spray application, and reduced drop heights for conveyor load-out.
- d. For each material handling 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 material handling operation(s) until further observation confirms that use of the control measure(s) is unnecessary.

- e. 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).
- f. 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).
- g. The facility 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).

c) **Operational Restrictions**

- (1) The permittee shall not exceed a material throughput of 204,400 tons per year for this emissions unit.

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

- (1) The permittee shall maintain monthly records of the amount of material processed in this emissions unit (in tons per month and total tons, to date for the calendar year).
- (2) Except as otherwise provided in this section, for material handling operations that are not adequately enclosed, the permittee shall perform visible emission inspections of such operations during representative, normal operating conditions in accordance with the following minimum frequencies:

Operation	Minimum Inspection Frequency
crushing	once per day of operation
screening	once per day of operation
conveyor transfer points	once per day of operation

- (3) The permittee shall maintain daily 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)(3)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.

e) Reporting Requirements

- (1) The permittee shall submit an annual Permit Evaluation Report (PER) to the Ohio EPA District Office or Local Air Agency 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 the following information in the annual PER in accordance with the monitoring requirements for visible emissions in d)(2) and d)(3) above:
 - a. each day during which an inspection was not performed by the required frequency; and
 - b. each instance when a control measure, that was to be performed as a result of an inspection, was not implemented.

The above information shall be provided as an attachment to the PER. If there were no day(s) and/or corrective action(s) to identify as required above, the permittee shall indicate within the "Additional Information and Corrections" section of the PER that no visible emissions were observed and no corrective actions were taken.

- (3) The permittee shall also include in the PER (or attachment) the total material throughput for the most recently completed calendar year.

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:
1.21 ton fugitive PE /yr

Applicable Compliance Method:

The emission limitation was established by addition of the following:

- i. multiplying an emission factor from AP-42, section 11.19.2 (Aug 04) of 0.0021lbs PE/ton(controlled) of production (for the crusher) by a maximum annual throughput of 204,400 tons and by a conversion factor of ton/2000 lbs. [0.21 ton/yr]
- ii. multiplying an emission factor from AP-42, section 11.19.2 (Aug 04) of 0.0022lbs PE/ton(controlled) of production (for the screener) by a maximum annual throughput of 204,400 tons and by a conversion factor of ton/2000 lbs. [0.23 ton/yr]

- iii. multiplying an emission factor from AP-42, section 11.19.2 (Aug 04) of 0.003lbs PE/ton of production by a maximum annual throughput of 51,100 tons (x5 conveyors, x2 transfer points each) and by a conversion factor of ton/2000 lbs. [0.77 ton/yr]

Therefore, provided compliance is shown with the maximum material throughput, compliance with the annual PE emission limitation shall also be demonstrated.

- b. Emission Limitation:
0.52 ton fugitive PM₁₀ /yr

Applicable Compliance Method:

The emission limitation was established by addition of the following:

- i. multiplying an emission factor from AP-42, section 11.19.2 (Aug 04) of 0.0021lbs PM₁₀/ton of production (for the crusher) by a maximum annual throughput of 204,400 tons and by a conversion factor of ton/2000 lbs.[0.21 ton/yr] (assume worst-case that all PE is PM₁₀)
- ii. multiplying an emission factor from AP-42, section 11.19.2 (Aug 04) of 0.00074lbs PM₁₀/ton of production (for the screener) by a maximum annual throughput of 204,400 tons and by a conversion factor of ton/2000 lbs. [0.08 ton/yr]
- iii. multiplying an emission factor from AP-42, section 11.19.2 (Aug 04) of 0.0011lbs PM₁₀/ton of production by a maximum annual throughput of 51,100 tons (x4 conveyors, x2 transfer points each) and by a conversion factor of ton/2000 lbs. [0.23 ton/yr]

Therefore, provided compliance is shown with the maximum material throughput, compliance with the annual PM₁₀ emission limitation shall also be demonstrated.

- c. Emission Limitation:
Visible fugitive PE shall not exceed 15 percent opacity, as a six-minute average (crushing)

Applicable Compliance Method:

If required, compliance with the visible emission limitation shall be determined in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources") as such Appendix existed on July 1, 2002, and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(c) of OAC rule 3745-17-03.

- d. Emission Limitation:
Visible fugitive PE shall not exceed 10 percent opacity, as a six-minute average (load-in /load-out, screening, conveying)

Applicable Compliance Method:

If required, compliance with the visible emission limitation shall be determined in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources") as such

Appendix existed on July 1, 2002, and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(c) of OAC rule 3745-17-03.

- g) Miscellaneous Requirements
 - (1) None.



8. P901

Operations, Property and/or Equipment Description:

ImpactorCrusher ('Gator Crusher') - in Main Crush Building, with baghouse- with I.C. engine drive (John Deere 6081) [CS-6]

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 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)	<u>baghousestack emissions:</u> 1.03lbsparticulate matter 10 microns or less (PM ₁₀) /hr; and 4.51 tons PM ₁₀ /yr Visible stack particulate emissions (PE) shall not exceed 5% opacity, as a 6-minute average. <u>fugitive emissions:</u> 0.25 tons PE /yr 0.16 tons PM ₁₀ /year Visible fugitive PE shall not exceed 20% opacity, as a 3-minute average. See b)(2)a and c)(1).
b.	OAC rule 3745-17-11(B)	See b)(2)b.
c.	OAC rule 3745-17-07(A)	See b)(2)c.

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

(2) Additional Terms and Conditions

- a. The "Best Available Technology (BAT) control requirements for this emissions unit has been determined to be use of a baghouse for control of fugitive emissions. The baghouse shall achieve a maximum outlet concentration of 0.01 gr PM₁₀ /dscf.
- 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). This determination is based on all emissions of particulate matter being PM₁₀ and the established PM₁₀ limitation being more restrictive that particulate emissions limitation established by OAC rule 3745-17-11(B). Particulate emissions (PE) measured using Method 5 of 40 CFR Part 60, Appendix A would be equivalent to the filterable particulates measured using Method 201/201A of 40 CFR, Part 51, Appendix M. A PM₁₀ limitation is more stringent due to the inclusion of condensable particulate matter measured by Method 202 of 40 CFR, Part 51, Appendix M.
- c. The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
- 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. The facility 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).

c) Operational Restrictions

- (1) The permittee shall not exceed a material throughput of 102,200 tons per year for this emissions unit.

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall maintain monthly records of the amount of material processed in this emissions unit (in tons per month and total tons, to date for the calendar year).
- (2) The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the 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 location and color of the emissions.
 - b. the total duration of any visible emissions incident.
 - c. any corrective actions taken to eliminate the visible emissions.
- (3) The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any fugitive visible particulate emissions from 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 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)(3)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.

e) Reporting Requirements

- (1) The permittee shall submit an annual Permit Evaluation Report (PER) to the Ohio EPA District Office or Local Air Agency 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 the following information in the annual permit evaluation report in accordance with the monitoring requirements for visible emissions in d)(2) and d)(3) above:
 - a. all days during which any visible particulate emissions were observed from the stack serving this emission unit; and
 - b. any corrective actions taken to eliminate the visible particulate emissions.
 - c. all days during which any visible fugitive particulate emissions were observed from the operations associated with this emissions unit; and

- d. any corrective actions taken to minimize or eliminate the visible fugitive particulate emissions.

The above information shall be provided as an attachment to the PER. If there were no day(s) and/or corrective action(s) to identify as required above, the permittee shall indicate within the "Additional Information and Corrections" section of the PER that no visible emissions were observed and no corrective actions were taken.

- (3) The permittee shall also include in the PER (or attachment) the total material throughput for the most recently completed calendar year.

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:
1.03lbs PM₁₀ /hr; 4.51 tons PM₁₀ /yr (stack)

Applicable Compliance Method:

The pounds per hour emission limitation represents the PTE for the stack for this emissions unit and was established by multiplying the maximum outlet concentration of 0.01 gr/dscf (manufacturer's baghouse specifications) by the maximum volumetric flow rate (12,000 acfm), and applying the conversion factors of 60 minutes/hour and 7000 grains/pound.

If required, the permittee shall demonstrate compliance with the lb/hr and/or gr/dscf limit by testing in accordance with US EPA 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.

The annual PM₁₀ limitation was developed by multiplying the lb/hr limitation by 8760 hrs/yr of operation, then 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.

- b. Emission Limitation:
0.25 tons PE/yr (fugitive)

Applicable Compliance Method:

The emission limitation was established by addition of the following:

- i. multiplying an emission factor from AP-42, section 11.19.2 (background document) of 0.007lbs PE/ton of production (for the crusher) by a maximum annual throughput of 102,200 tons and by a conversion factor of ton/2000 lbs, and applying a 70% capture efficiency for use of a building enclosure with aspiration to a baghouse. [0.11 ton/yr]
- ii. multiplying an emission factor from AP-42, section 11.19.2 (Aug 04) of 0.003lbs PE/ton of production by a maximum annual throughput of

102,200 tons (x3 transfer points) and by a conversion factor of ton/2000 lbs, and applying a 70% capture efficiency for use of a building enclosure with aspiration to a baghouse. [0.14 ton/yr]

Therefore, provided compliance is shown with the maximum annual material throughput, compliance with the annual PE emissions limitation shall also be demonstrated.

- c. Emission Limitation:
0.16 ton fugitive PM₁₀ /yr

Applicable Compliance Method:

The emission limitation was established by addition of the following:

- i. multiplying an emission factor from AP-42, section 11.19.2 (background document) of 0.007lbs PM₁₀/ton of production (for the crusher) by a maximum annual throughput of 102,200 tons and by a conversion factor of ton/2000 lbs; (assume worst-case that all PE is PM₁₀), and applying a 70% capture efficiency for use of a building enclosure with aspiration to a baghouse. [0.11 ton/yr]
- ii. multiplying an emission factor from AP-42, section 11.19.2 (Aug 04) of 0.0011lbs PM₁₀/ton of production by a maximum annual throughput of 102,200 tons (x3 transfer points) and by a conversion factor of ton/2000 lbs, and applying a 70% capture efficiency for use of a building enclosure with aspiration to a baghouse. [0.05 ton/yr]

Therefore, provided compliance is shown with the maximum annual material throughput, compliance with the annual PM₁₀ emissions limitation shall also be demonstrated.

- d. Emission Limitation:
Visible stack PE shall not exceed 5% opacity, as a 6-minute average.

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance in accordance with 40 CFR, Part 60, AppendixA, Method 9.

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

Applicable Compliance Method:

If required, compliance with the visible emission limitation shall be determined in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources") as such Appendix existed on July 1, 2002, and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(c) of OAC rule 3745-17-03.

- g) Miscellaneous Requirements
 - (1) None.



9. P902

Operations, Property and/or Equipment Description:

Roll crusher/screener - in Main Crush Building, with baghouse [CS-7]

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 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)	<u>baghousestack emissions:</u> 1.03 lbsparticulate matter 10 microns or less (PM ₁₀) /hr; and 4.51 tons PM ₁₀ /yr Visible stack particulate emissions (PE) shall not exceed 5% opacity, as a 6-minute average. <u>fugitive emissions:</u> 0.15 tons PE /yr 0.043 tons PM ₁₀ /year Visible fugitive PE shall not exceed 20% opacity, as a 3-minute average. See b)(2)a and c)(1).
b.	OAC rule 3745-17-11(B)	See b)(2)b.
c.	OAC rule 3745-17-07(A)	See b)(2)c.
d.	OAC rule 3745-17-07(B)	See b)(2)d.



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
e.	OAC rule 3745-17-08(B)	See b)(2)e.

(2) Additional Terms and Conditions

- a. The "Best Available Technology (BAT) control requirements for this emissions unit has been determined to be use of a baghouse for control of fugitive emissions. The baghouse shall achieve a maximum outlet concentration of 0.01 gr PM₁₀ /dscf.
- 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). This determination is based on all emissions of particulate matter being PM₁₀ and the established PM₁₀ limitation being more restrictive than particulate emissions limitation established by OAC rule 3745-17-11(B). Particulate emissions (PE) measured using Method 5 of 40 CFR Part 60, Appendix A would be equivalent to the filterable particulates measured using Method 201/201A of 40 CFR, Part 51, Appendix M. A PM₁₀ limitation is more stringent due to the inclusion of condensable particulate matter measured by Method 202 of 40 CFR, Part 51, Appendix M.
- c. The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
- 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. The facility 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).

c) Operational Restrictions

- (1) The permittee shall not exceed a material throughput of 20,440 tons per year for this emissions unit.

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall maintain monthly records of the amount of material processed in this emissions unit (in tons per month and total tons, to date for the calendar year).
- (2) The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the 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 location and color of the emissions.
 - b. the total duration of any visible emissions incident.
 - c. any corrective actions taken to eliminate the visible emissions.
- (3) The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any fugitive visible particulate emissions from 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 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)(3)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.

e) Reporting Requirements

- (1) The permittee shall submit an annual Permit Evaluation Report (PER) to the Ohio EPA District Office or Local Air Agency 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 the following information in the annual permit evaluation report in accordance with the monitoring requirements for visible emissions in d)(2) and d)(3) above:
 - a. all days during which any visible particulate emissions were observed from the stack serving this emission unit; and
 - b. any corrective actions taken to eliminate the visible particulate emissions.
 - c. all days during which any visible fugitive particulate emissions were observed from the operations associated with this emissions unit; and

- d. any corrective actions taken to minimize or eliminate the visible fugitive particulate emissions.

The above information shall be provided as an attachment to the PER. If there were no day(s) and/or corrective action(s) to identify as required above, the permittee shall indicate within the "Additional Information and Corrections" section of the PER that no visible emissions were observed and no corrective actions were taken.

- (3) The permittee shall also include in the PER (or attachment) the total material throughput for the most recently completed calendar year.

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:
1.03lbs PM₁₀ /hr; 4.51 tons PM₁₀ /yr (stack)

Applicable Compliance Method:

The pounds per hour emission limitation represents the PTE for the stack for this emissions unit and was established by multiplying the maximum outlet concentration of 0.01 gr/dscf (manufacturer's baghouse specifications) by the maximum volumetric flow rate (12,000 acfm), and applying the conversion factors of 60 minutes/hour and 7000 grains/pound.

If required, the permittee shall demonstrate compliance with the lb/hr and/or gr/dscf limit by testing in accordance with US EPA 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.

The annual PM₁₀ limitation was developed by multiplying the lb/hr limitation by 8760 hrs/yr of operation, then 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.

- b. Emission Limitation:
0.15 tons PE/yr (fugitive)

Applicable Compliance Method:

The emission limitation was established by addition of the following:

- i. multiplying an emission factor from AP-42, section 11.19.2 (background document) of 0.007lbs PE/ton of production (for the crusher) by a maximum annual throughput of 20,440 tons and by a conversion factor of ton/2000 lbs, and applying a 70% capture efficiency for use of a building enclosure with aspiration to a baghouse. [0.02 ton/yr]
- ii. multiplying an emission factor from AP-42, section 11.19.2 (Aug 04) of 0.025lbs PE/ton of production (for the screener) by a maximum annual

throughput of 20,440 tons and by a conversion factor of ton/2000 lbs, and applying a 70% capture efficiency for use of a building enclosure with aspiration to a baghouse. [0.07 ton/yr]

- iii. multiplying an emission factor from AP-42, section 11.19.2 (Aug 04) of 0.003lbs PE/ton of production by a maximum annual throughput of 20,440 tons (x6 transfer points) and by a conversion factor of ton/2000 lbs, and applying a 70% capture efficiency for use of a building enclosure with aspiration to a baghouse. [0.06 ton/yr]

Therefore, provided compliance is shown with the maximum material throughput, compliance with the annual PE emission limitation shall also be demonstrated.

- c. Emission Limitation:
0.043 ton fugitive PM₁₀ /yr

Applicable Compliance Method:

The emission limitation was established by addition of the following:

- i. multiplying an emission factor from AP-42, section 11.19.2 (background document) of 0.007lbs PM₁₀/ton of production (for the crusher) by a maximum annual throughput of 20,440 tons and by a conversion factor of ton/2000 lbs; (assume worst-case that all PE is PM₁₀), and applying a 70% capture efficiency for use of a building enclosure with aspiration to a baghouse. [0.021 ton/yr]
- ii. multiplying an emission factor from AP-42, section 11.19.2 (Aug 04) of 0.00074lbs PM₁₀/ton of production (for the screener) by a maximum annual throughput of 20,440 tons and by a conversion factor of ton/2000 lbs, and applying a 70% capture efficiency for use of a building enclosure with aspiration to a baghouse. [0.002 ton/yr]
- iii. multiplying an emission factor from AP-42, section 11.19.2 (Aug 04) of 0.0011lbs PM₁₀/ton of production by a maximum annual throughput of 20,440 tons (x6 transfer points) and by a conversion factor of ton/2000 lbs, and applying a 70% capture efficiency for use of a building enclosure with aspiration to a baghouse. [0.020 ton/yr]

Therefore, provided compliance is shown with the maximum material throughput, compliance with the annual PM₁₀ emission limitation shall also be demonstrated.

- d. Emission Limitation:
Visible stack PE shall not exceed 5% opacity, as a 6-minute average.

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance in accordance with 40 CFR, Part 60, AppendixA, Method 9.

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



Applicable Compliance Method:

If required, compliance with the visible emission limitation shall be determined in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources") as such Appendix existed on July 1, 2002, and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(c) of OAC rule 3745-17-03.

g) Miscellaneous Requirements

- (1) None.



10. P903

Operations, Property and/or Equipment Description:

Mixing & Weighing(transfer, some blending, of material by back-hoe) - in Main Crush Building, with baghouse [CS-4]

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 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)	<u>baghousestack emissions:</u> 2.21lbsparticulate matter 10 microns or less (PM ₁₀) /hr; and 9.69 tons PM ₁₀ /yr Visible stack particulate emissions (PE) shall not exceed 0% opacity, as a 6-minute average. <u>fugitive emissions:</u> 0.032 tons PE /yr 0.015 tons PM ₁₀ /year Visible fugitive PE shall not exceed 20% opacity, as a 3-minute average. See b)(2)a and c)(1).
b.	OAC rule 3745-17-11(B)	See b)(2)b.
c.	OAC rule 3745-17-07(A)	See b)(2)c.



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

(2) Additional Terms and Conditions

- a. The "Best Available Technology (BAT) control requirements for this emissions unit has been determined to be use of a baghouse for control of fugitive emissions. The baghouse shall achieve a maximum outlet concentration of 0.006 gr PM₁₀ /dscf.
- 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). This determination is based on all emissions of particulate matter being PM₁₀ and the established PM₁₀ limitation being more restrictive that particulate emissions limitation established by OAC rule 3745-17-11(B). Particulate emissions (PE) measured using Method 5 of 40 CFR Part 60, Appendix A would be equivalent to the filterable particulates measured using Method 201/201A of 40 CFR, Part 51, Appendix M. A PM₁₀ limitation is more stringent due to the inclusion of condensable particulate matter measured by Method 202 of 40 CFR, Part 51, Appendix M.
- c. The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
- 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. The facility 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).

c) Operational Restrictions

- (1) The permittee shall not exceed a material throughput of 15,330 tons per year for this emissions unit.

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall maintain monthly records of the amount of material processed in this emissions unit (in tons per month and total tons, to date for the calendar year).
- (2) The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the 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 location and color of the emissions.
 - b. the total duration of any visible emissions incident.
 - c. any corrective actions taken to eliminate the visible emissions.
- (3) The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any fugitive visible particulate emissions from 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 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)(3)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.

e) Reporting Requirements

- (1) The permittee shall submit an annual Permit Evaluation Report (PER) to the Ohio EPA District Office or Local Air Agency 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 the following information in the annual permit evaluation report in accordance with the monitoring requirements for visible emissions in d)(2) and d)(3) above:
 - a. all days during which any visible particulate emissions were observed from the stack serving this emission unit; and
 - b. any corrective actions taken to eliminate the visible particulate emissions.
 - c. all days during which any visible fugitive particulate emissions were observed from the operations associated with this emissions unit; and

- d. any corrective actions taken to minimize or eliminate the visible fugitive particulate emissions.

The above information shall be provided as an attachment to the PER. If there were no day(s) and/or corrective action(s) to identify as required above, the permittee shall indicate within the "Additional Information and Corrections" section of the PER that no visible emissions were observed and no corrective actions were taken.

- (3) The permittee shall also include in the PER (or attachment) the total material throughput for the most recently completed calendar year.

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:
2.21lbs PM₁₀ /hr; 9.69 tons PM₁₀ /yr (stack)

Applicable Compliance Method:

The pounds per hour emission limitation represents the PTE for the stack for this emissions unit and was established by multiplying the maximum outlet concentration of 0.006 gr/dscf (manufacturer's baghouse specifications) by the maximum volumetric flow rate (43,000 acfm), and applying the conversion factors of 60 minutes/hour and 7000 grains/pound.

If required, the permittee shall demonstrate compliance with the lb/hr and/or gr/dscf limit by testing in accordance with US EPA 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.

The annual PM₁₀ limitation was developed by multiplying the lb/hr limitation by 8760 hrs/yr of operation, then 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.

- b. Emission Limitation:
0.032 ton fugitive PE /yr

Applicable Compliance Method:

The emission limitation was established by multiplying an emission factor from AP-42, Table 11.12.2 (Jun06) of 0.0069lbs PE/ton of production by a maximum annual throughput of 15,330 tons (x2 transfer points) and by a conversion factor of ton/2000 lbs, and applying a 70% capture efficiency for use of a building enclosure with aspiration to a baghouse.

Therefore, provided compliance is shown with the maximum annual material throughput, compliance with the annual PE emissions limitation shall also be demonstrated.

- c. Emission Limitation:
0.015 ton fugitive PM₁₀ /yr

Applicable Compliance Method:

The emission limitation was established by multiplying an emission factor from AP-42, Table 11.12.2 (Jun 06) of 0.0033lbsPM₁₀/ton of production by a maximum annual throughput of 15,330 tons (x2 transfer points) and by a conversion factor of ton/2000 lbs, and applying a 70% capture efficiency for use of a building enclosure with aspiration to a baghouse.

Therefore, provided compliance is shown with the maximum annual material throughput, compliance with the annual PM₁₀ emissions limitation will be demonstrated.

- d. Emission Limitation:
Visible stack PE shall not exceed 0% opacity, as a 6-minute average.

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance in accordance with 40 CFR, Part 60, AppendixA, Method 9.

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

Applicable Compliance Method:

If required, compliance with the visible emission limitation shall be determined in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources") as such Appendix existed on July 1, 2002, and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(c) of OAC rule 3745-17-03.

g) Miscellaneous Requirements

- (1) None.



11. P904

Operations, Property and/or Equipment Description:

Rotary Dryer (direct-fired) LPG 1.0 mmBtu/hr, with exhaust baghouse (various materials) - with conveyors [CS-5]

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 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)	<p><u>dryerexhaust stack emissions:</u> 0.016lbsparticulate emissions (PE) /hr; and 0.024 tons PE /yr [See b)(2)a.]</p> <p>Visible PE shall not exceed 5 percent opacity, as a six-minute average.</p> <p>0.13lb nitrogen oxides (NO_x) /hr; 0.33 ton NO_x /yr</p> <p>0.075lb carbon monoxide (CO) /hr; 0.19 ton CO /yr</p> <p><u>fugitive emissions:</u> 0.092 tons PE /yr</p> <p>Visible fugitive PE shall not exceed 20% opacity, as a 3-minute average.</p>

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

(2) Additional Terms and Conditions

- a. The "Best Available Technology (BAT) control requirements for this emissions unit has been determined to be use of a baghouse for control of the dryer exhaust emissions. The baghouse shall achieve a minimum control efficiency of 99 percent.

Emissions of PM₁₀ shall be, for the purposes of the BAT determination of this permit, assumed to be worst-case; i.e. all PE emissions shall be assumed to be (filterable) PM₁₀.

- b. The uncontrolled mass rate of particulate emissions from this emissions unit is less than 10 lbs / hr. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(a)(ii), Figure II of OAC rule 3745-17-11 does not apply. Also, Table 1 does not apply because the facility is located in Fulton County.
- c. This emissions unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(A), pursuant to OAC rule 3745-17-07(A)(3)(h), because OAC rule 3745-17-11 is not applicable.

c) Operational Restrictions

The permittee shall not exceed a material throughput of 30,660 tons per year for this emissions unit.

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall maintain monthly records of the amount of material processed in this emissions unit (in tons per month and total tons, to date for the calendar year).
- (2) The permittee shall perform daily checks, when the emissions unit(s) is in operation and when the weather conditions allow, for any visible particulate emissions from the 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:
- the color of the emissions;
 - whether the emissions are representative of normal operations;
 - if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - the total duration of any visible emission incident; and
 - 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)(2)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.

- (3) The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any fugitive visible particulate emissions from 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 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)(3)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.

e) Reporting Requirements

- (1) The permittee shall submit an annual Permit Evaluation Report (PER) to the Ohio EPA District Office or Local Air Agency 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.

The permittee shall identify the following information in the annual permit evaluation report in accordance with the monitoring requirements for visible emissions in d)(1) and d)(2) above:

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

- c. all days during which any visible fugitive particulate emissions were observed from the operations associated with this emissions unit; and
- d. any corrective actions taken to minimize or eliminate the visible fugitive particulate emissions.

The above information shall be provided as an attachment to the PER. If there were no day(s) and/or corrective action(s) to identify as required above, the permittee shall indicate within the "Additional Information and Corrections" section of the PER that no visible emissions were observed and no corrective actions were taken.

The permittee shall also include in the PER (or attachment) the total material throughput for the most recently completed calendar year.

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:
0.016lb PE /hr; and 0.024 ton PE /yr (stack emissions)

Applicable Compliance Method:

The hourly emission limitation was established by multiplying an emission factor from AP-42, section 11.3 (Aug 97) of 0.077lbs PE/ton of production by the maximum hourly throughput of 10 tons (x2 transfer points), and applying a 99% minimum control for a baghouse. (PE from fuel combustion is negligible.)

The annual emission limitation was established by multiplying an emission factor from AP-42, section 11.3 (Aug 97) of 0.077lbs PE/ton of production by the maximum annual throughput of 30,660 tons (x2 transfer points) and by a conversion factor of ton/2000 lbs, and applying a 99% minimum control for a baghouse.

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

- b. Emission Limitation:
0.13lb NO_x /hr; and 0.33 ton NO_x /yr

Applicable Compliance Method:

The emission limitations were established by multiplying the maximum hourly and annual liquefied petroleum gas (LPG) combustion rates (10 and 51,100 gal/hr, respectively) by the emission factor from AP-42 Table 1.5-1 (revised Jul 08) of 13 pounds NO_x /1000 gallons of LPG.

If required, the permittee shall demonstrate compliance with the hourly emission limitation in accordance with Methods 1- 4, and 7 of 40 CFR, Part 60, Appendix A.

- c. Emission Limitation:
0.075 lb CO /hr; and 0.19 ton CO /yr

Applicable Compliance Method:

The emission limitations were established by multiplying the maximum hourly and annual liquefied petroleum gas (LPG) combustion rates (10 and 51,100 gal/hr, respectively) by the emission factor from AP-42 Table 1.5-1 (revised Jul 08) of 7.5 pounds CO /1000 gallons of LPG.

If required, the permittee shall demonstrate compliance with the hourly emission limitation in accordance with Methods 1- 4, and 10 of 40 CFR, Part 60, Appendix A.

- d. Emission Limitation:
0.092 ton fugitive PE /yr

Applicable Compliance Method:

The emission limitation was established by multiplying an emission factor from AP-42, section 11.19.2 (Aug 04) of 0.003lbs PE/ton of production by a maximum annual throughput of 30,660 tons (x2 transfer points) and by a conversion factor of ton/2000 lbs.

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

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance in accordance with 40 CFR, Part 60, AppendixA, Method 9.

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

Applicable Compliance Method:

If required, compliance with the visible emission limitation shall be determined in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 2002, and the modifications listed in paragraphs (B)(3)(a) and (B)(3)(b) of OAC rule 3745-17-03.

- g) Miscellaneous Requirements

- (1) None.