



Environmental Protection Agency

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

4/7/2011

GENE KIRBY
KIRBY SAND AND GRAVEL
4876 COUNTY HIGHWAY 43
UPPER SANDUSKY, OH 43351

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

Facility ID: 0388010069
Permit Number: P0107111
Permit Type: Initial Installation
County: Wyandot

Certified Mail

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

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
KIRBY SAND AND GRAVEL**

| | |
|----------------|----------------------|
| Facility ID: | 0388010069 |
| Permit Number: | P0107111 |
| Permit Type: | Initial Installation |
| Issued: | 4/7/2011 |
| Effective: | 4/7/2011 |
| Expiration: | 6/17/2020 |



Division of Air Pollution Control
Permit-to-Install and Operate
for
KIRBY SAND AND GRAVEL

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Authorization

Facility ID: 0388010069
Application Number(s): A0040592
Permit Number: P0107111
Permit Description: This is an installation Permit to Install and Operate (PTIO) for (4) number 2 oil-fired generators, (1) crushing operation, (2) screening operations, mineral extraction, unpaved roadways and storage piles.
Permit Type: Initial Installation
Permit Fee: \$2,700.00
Issue Date: 4/7/2011
Effective Date: 4/7/2011
Expiration Date: 6/17/2020
Permit Evaluation Report (PER) Annual Date: Jan 1 - Dec 31, Due Feb 15

This document constitutes issuance to:

KIRBY SAND AND GRAVEL
4876 COUNTY HIGHWAY 43
Upper Sandusky, OH 43351

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

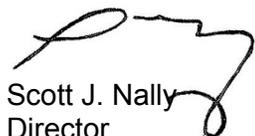
Ohio EPA District Office or local air agency responsible for processing and administering your permit:

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: P0107111
Permit Description: This is an installation Permit to Install and Operate (PTIO) for (4) number 2 oil-fired generators, (1) crushing operation, (2) screening operations, mineral extraction, unpaved roadways and storage piles.

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

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

Emissions Unit ID: F003
Company Equipment ID: Storage Piles
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: P001
Company Equipment ID: P001
Superseded Permit Number:
General Permit Category and Type: Not Applicable

Emissions Unit ID: P002
Company Equipment ID: P002
Superseded Permit Number:
General Permit Category and Type: Not Applicable

Emissions Unit ID: P003
Company Equipment ID: P003
Superseded Permit Number:
General Permit Category and Type: Not Applicable

Emissions Unit ID: P004
Company Equipment ID: P004
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.

¹ Permittees 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. F002, Unpaved Roadways

Operations, Property and/or Equipment Description:

Unpaved 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)(a) | 13.9 tons fugitive particulate emissions (PE)/year 3.5 tons fugitive particulate matter of 10 microns or less in size (PM10)/year no visible particulate emissions 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)c. through b)(2)i.] |
| 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 covered by this permit and subject to the above-mentioned requirements are listed below:

unpaved roadways:

all unpaved roadway 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 with water as needed to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other 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 unpaved roadway or parking area that is covered with snow and/or ice or if precipitation has occurred that is sufficient for the 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 resuspension, earth and/or other material from paved streets onto which such material has been deposited by trucking or earth moving equipment or erosion by water or other means.
- 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(A)(3)(a).
- g. This emissions unit is exempt from the visible particulate emission limitations for fugitive dust, specified in OAC rule 3745-17-07(B), pursuant to OAC rule 3745-17-07(B)(11)(e), because the emissions unit is not located within areas identified in "Appendix A" of OAC rule 3745-17-08.
- h. This emissions unit is not located within areas identified in "Appendix A" of OAC rule 3745-17-08, therefore, the requirements of OAC rule 3745-17-08(B), which requires the installation of reasonably available control measures to prevent

fugitive dust, do not apply to this emissions unit pursuant to OAC rule 3745-17-08(A)(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 unpaved roadways and parking areas | once during each 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.
- 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 the paved roadways and parking areas and for 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) Annual Permit Evaluation Report (PER) forms will be mailed to the permittee at the end of the reporting period specified in the Authorization section of this permit. The permittee shall submit the PER in the form and manner provided by the director by the due date identified in the Authorization section of this permit. The permit evaluation report shall cover a reporting period of no more than twelve-months for each air contaminant source identified in this permit.

- (2) The permittee shall identify the following information in the annual permit evaluation report in accordance with the monitoring requirements for visible emissions in term number d)(3) above:
- a. all days during which any visible fugitive particulate emissions were observed; and
 - b. any corrective actions taken to minimize or eliminate the visible fugitive particulate emissions.

f) Testing Requirements

- (1) Compliance with the emission limitations in Section b)(1) of the terms and conditions of this permit shall be determined in accordance with the following methods:

Emission Limitation:

13.9 tons fugitive PE /year

3.5 tons fugitive PM10/year

Applicable Compliance Method:

The PE emission limitation was determined as follows :

by multiplying AP-42 emission factor for unpaved roadways of 6.73 lb PE /VMT [Section 13.2.2 (11/06)], applying a control efficiency of 90% for use of best available control measures, and the maximum vehicle miles traveled (VMT) of 41,300 miles per year, and dividing by 2000 lbs/ton.

The PM10 emission limitation was determined as follows:

by multiplying AP-42 emission factor for unpaved roadways of 1.71 lb PM10 /VMT [Section 13.2.2 (11/06)], applying a control efficiency of 90% for use of best available control measures, and the maximum vehicle miles traveled (VMT) of 41,300 miles per year, and dividing by 2000 lbs/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 and PM10 limitations will be assumed.

Emission Limitation:

No visible PE from unpaved roadways and parking areas except for a period of time not to exceed 3 minutes during any 60-minute observation period.

Applicable Compliance Method:

If required, compliance with the visible PE limitation listed 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.



2. F003, Storage Piles

Operations, Property and/or Equipment Description:

Storage Piles

- 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)(a) | 9.0 tons fugitive particulate emissions (PE)/year 4.3 tons fugitive particulate matter of 10 microns or less in size (PM10)/year No visible emissions from load-in or load-out except for a period of time not to exceed one minute during any 60-minute observation period. No visible emissions from wind erosion except for a period of time not to exceed one minute 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)b. through b)(2)f.] |

| | Applicable Rules/Requirements | Applicable Emissions Limitations/Control Measures |
|----|-------------------------------|---|
| 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 storage piles that are covered by this permit and subject to the above-mentioned requirements are listed below:

storage pile identification:

all storage piles

- b. 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.

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)(a).
 - g. This emissions unit is exempt from the visible particulate emission limitations for fugitive dust, specified in OAC rule 3745-17-07(B), pursuant to OAC rule 3745-17-07(B)(11)(e), because the emissions unit is not located within areas identified in "Appendix A" of OAC rule 3745-17-08.
 - h. This emissions unit is not located within areas identified in "Appendix A" of OAC rule 3745-17-08, therefore, the requirements of OAC rule 3745-17-08(B), which requires the installation of reasonably available control measures to prevent fugitive dust, do not apply to this emissions unit pursuant to OAC rule 3745-17-08(A)(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 operation at each storage pile in accordance with the following frequencies:

| | |
|-------------------------------------|--|
| <u>storage pile identification:</u> | <u>minimum load-in inspection frequency:</u> |
| all storage piles | daily |
 - (2) Except as otherwise provided in this section, the permittee shall perform inspections of each load-out operation at each storage pile in accordance with the following frequencies:

| | |
|-------------------------------------|---|
| <u>storage pile identification:</u> | <u>minimum load-out inspection frequency:</u> |
| all storage piles | daily |
 - (3) Except as otherwise provided in this section, the permittee shall perform inspections of the wind erosion from pile surfaces associated with each storage pile in accordance with the following frequencies:

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

- (5) The purpose of the inspections is to determine the need for implementing the control measures specified in this permit for load-in and load-out of a storage pile, and wind erosion from the surface of a storage pile. The inspections shall be performed during representative, normal storage pile operating conditions.
- (6) The permittee shall maintain records of the following information:
- a. the date and reason any required inspection was not performed, including those inspections that were not performed due to snow and/or ice cover or precipitation;
 - b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measures;
 - c. the dates the control measures were implemented; and
 - d. on a calendar quarter basis, the total number of days the control measures were implemented and, for wind erosion from pile surfaces, the total number of days where snow and/or ice cover or precipitation were sufficient to not require the control measure(s).

The information required in d)(6)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) Annual Permit Evaluation Report (PER) forms will be mailed to the permittee at the end of the reporting period specified in the Authorization section of this permit. The permittee shall submit the PER in the form and manner provided by the Director by the due date identified in the Authorization section of this permit. The permit evaluation report shall cover a reporting period of no more than twelve-months for each air contaminant source identified in this permit.
- (2) The permittee shall identify the following information in the annual permit evaluation report in accordance with the monitoring requirements for visible emissions in term number d)(6) above:
- a. all days during which any visible fugitive particulate emissions were observed; and
 - b. any corrective actions taken to minimize or eliminate the visible fugitive particulate emissions.

f) Testing Requirements

- (1) Compliance with the emission limitations in section b)(1) of the terms and conditions of this permit shall be determined in accordance with the following method:

Emission Limitation:

9.0 tons fugitive PE/year

4.3 tons fugitive PM10/year

Applicable Compliance Method:

The emission rate was determined by combining the emissions from each load-in and load-out operation and from wind erosion from each storage pile as listed in the permittee's application. Each load-in and load out operation emission rate is based on a maximum load-in and load-out rate of 500,000 tons per year and each wind erosion emission rate is based on the following maximum acreage for each storage pile as listed in the permit application:

The emission rate was determined as follows:

Load-in and Load out – The PE emission limitation was established by multiplying the maximum rate of 500,000 tons per year (times 2) by the calculated emission factor from AP-42 section 13.2.4 (11/06) [0.0088 lb PE/ton], dividing by 2000, and applying a 90% overall control efficiency. (0.4 tons PE/yr)

The PM10 emission limitation was established by multiplying the maximum rate of 500,000 tons per year (times 2) by the calculated emission factor from AP-42 section 13.2.4 (11/06) [0.004 lb PM10/ton], dividing by 2000, and applying a 90% overall control efficiency. (0.2 tons PM10/yr)

Wind Erosion – The emission limitation is based on the maximum acreage for the storage pile as listed in the permittee's application and has been calculated as follows:

Aggregate Storage Pile – The PE emission limitation was established by multiplying the maximum acres of 8.0 by the appropriate emission factor from USEPA's Control of Open Fugitive Dust Sources (September 1988) [5.88 lb PE/day/acre], by a maximum operating schedule of 365 days per year, and dividing by 2000. (8.6 ton PE/yr)

The PM10 emission limitation was established by multiplying the maximum acres of 8.0 by the appropriate emission factor from USEPA's Control of Open Fugitive Dust Sources (September 1988) [5.88 lb PM10/day/acre divided by 2.11], by a maximum operating schedule of 365 days per year, and dividing by 2000. (4.1 ton PM10/yr)

Therefore, provided compliance is shown with the requirements of this permit to apply best available control measures, it shall be a rebuttable presumption that compliance with the annual emission limitations have been attained.

Emission Limitation:

No visible emissions except for a period of time not to exceed one minute during any 60-minute observation period.

Applicable Compliance Method:

If required, compliance with the visible PE limitation listed 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)(c) of OAC rule 3745-17-03.

g) Miscellaneous Requirements

(1) None.



3. F004, F004

Operations, Property and/or Equipment Description:

Aggregate Scalping Screen #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) | 2.5 tons particulate emissions (PE) per year 1.2 tons particulate matter 10 microns or less (PM10) per year Visible emission restrictions (See b)(2)d.) Best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust See b)(2)a. and b)(2)b. |
| b. | OAC rule 3745-17-07(B)(5) | See b)(2)f. |
| c. | OAC rule 3745-17-08(B) | See b)(2)g. |
| d. | 40 CFR, Part 60, Subpart OOO | Visible emission restrictions (See b)(2)b. and b)(2)d.) |

- (2) Additional Terms and Conditions
- a. The BAT requirements under OAC rule 3745-31-05(A)(3) have been determined to be compliance with the following:
 - i. the emission limitations and visible emission restrictions contained in b)(1)a.;
 - ii. compliance with the operational restriction contained in c)(1);
 - iii. use of best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust; and
 - iv. compliance with 40 CFR Part 60, Subpart OOO.
 - b. The screen and associated material handling operations (excluding front-end load to feeder transfer point) is applicable to the requirements of 40 CFR Part 60 Subpart OOO when the screen is used to process any non-metallic mineral material as defined in 60.671. The provisions of 40 CFR Part 60 Subpart OOO do not apply to the screen and associated material handling operations when used to process material that is not defined as a non-metallic mineral. The restrictions established under OAC 3745-31-05(A)(3) are equivalent to or more stringent than any requirements/emissions limitations as may be applicable under 40 CFR Part 60 Subpart OOO.
 - c. The permittee shall employ the restrictions outlined in b)(2)a for the above-identified processes and material handling operations for the purpose of ensuring compliance with the above-mentioned applicable requirements. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
 - d. For each processing and material handling operation that is not adequately enclosed, the above-identified control measures 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 measures are necessary to ensure compliance with the above-mentioned applicable requirements. Any required implementation of the control measures shall continue during the operation of the material processing/handling operations until further observation confirms that use of the control measures is unnecessary.

Visible PE from the screening and material handling operations shall not exceed the following opacity restrictions:



| Emissions Point (Company ID) | Equipment Type | Opacity Limit | Regulatory Basis for Limit |
|------------------------------|----------------|---------------------------|---|
| Truck Loading to Hopper | transfer point | 20% as a 3-minute average | OAC rule 3745-31-05(F) |
| Hopper to Conveyor | transfer point | 10% as a 3-minute average | OAC rule 3745-31-05(F) & NSPS Subpart 000 |
| Conveyor to Screen | transfer point | 10% as a 6-minute average | OAC rule 3745-31-05(F) & NSPS Subpart 000 |
| Screen | screening | 10% as a 6-minute average | OAC rule 3745-31-05(F) & NSPS Subpart 000 |
| Screen to Conveyor | transfer point | 10% as a 6-minute average | OAC rule 3745-31-05(F) & NSPS Subpart 000 |
| Conveyor to Conveyor | transfer point | 10% as a 6-minute average | OAC rule 3745-31-05(F) & NSPS Subpart 000 |

- e. The application and enforcement of the provisions of NSPS, as promulgated by the United States Environmental Protection Agency, 40 CFR Part 60, are delegated to the Ohio Environmental Protection Agency. The requirements of 40 CFR Part 60 are also federally enforceable.
- f. This emissions unit is exempt from the visible particulate emission limitations for fugitive dust, specified in OAC rule 3745-17-07(B), pursuant to OAC rule 3745-17-07(B)(11)(e), because the emissions unit is not located within areas identified in "Appendix A" of OAC rule 3745-17-08.
- g. This emissions unit is not located within areas identified in "Appendix A" of OAC rule 3745-17-08, therefore, the requirements of OAC rule 3745-17-08(B), which requires the installation of reasonably available control measures to prevent fugitive dust, do not apply to this emissions unit pursuant to OAC rule 3745-17-08(A)(1).

c) Operational Restrictions

- (1) The maximum annual production rate for this emissions unit shall not exceed 500,000 tons per year.

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall maintain monthly records of the following information for this emissions unit:
 - a. the quantity of material processes, in tons; and

- b. the annual, year to date, cumulative amount of material processed, in tons.
- (2) Except as otherwise provided in this section, for each material processing and handling operation that is not adequately enclosed, the permittee shall perform inspections of such material processing and handling operations in accordance with the following minimum frequencies:

| <u>Material Processing/Handling Operations</u> | <u>Minimum Inspection Frequency</u> |
|--|-------------------------------------|
| All Operations | Once During Each Day of Operation |

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

- (3) The permittee shall maintain records of the following information:
 - a. the date and reason any required inspection was not performed;
 - b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measures;
 - c. the dates the control measures were implemented; and
 - d. on a calendar quarter basis, the total number of days the control measures were implemented.

The information in (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) Annual Permit Evaluation Report (PER) forms will be mailed to the permittee at the end of the reporting period specified in the Authorization section of this permit. The permittee shall submit the PER in the form and manner provided by the Director by the due date identified in the Authorization section of this permit. The permit evaluation report shall cover a reporting period of no more than twelve-months for each air contaminant source identified in this permit.
- (2) The permittee shall identify the following information in the annual permit evaluation report in accordance with the monitoring requirements for visible emissions in term number d)(6) 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; and
 - b. each instance when a control measure, that was to be implemented as a result of an inspection, was not implemented.

- (3) Pursuant to the general provisions of 40 CFR 60, Subpart A, the source owner/operator is hereby advised of the requirement to report the following at the appropriate times for this emissions unit:

- a. notification of the actual date of initial startup of each affected facility.

For a combination of affected facilities in a production line that begin actual initial startup on the same day, a single notification of startup may be submitted. The notification shall be postmarked within 15 days after such date and shall include a description of each affected facility, equipment manufacturer, and serial number of the equipment, if available.

- b. date of performance testing (if required, at least 30 days prior to testing).

The notification requirements for testing may be fulfilled by the "Intent to Test" (ITT) notification required in d)(7). The ITT form should indicate an indication that the requirements of b. above are being fulfilled by the ITT notification.

- c. The Subpart A requirement under 40 CFR 60.7(a)(1) for notification of the date construction or reconstruction commenced is waived for affected facilities under Subpart OOO.

Reports are to be sent to:

Ohio Environmental Protection Agency
Division of Air Pollution Control
Northwest District Office
347 North Dunbridge Road
Bowling Green, Ohio 43402

- (4) The permittee shall comply with the applicable reporting requirements required under 40 CFR Part 60, Subpart OOO, including the following sections:

| | |
|--------------|-------------------------------------|
| 60.676(a)(2) | replacement of screening operations |
| 60.676(a)(3) | replacement of conveyor belts |
| 60.676(a)(4) | replacement of storage bins |

The notification shall be submitted to the Ohio EPA Northwest District Office within 30 days after the equipment replacement.

- (5) Pursuant to the general provisions of NSPS, the source owner/operator is hereby advised of the requirement to report the following at the appropriate times for this emissions unit:

- a. actual start-up date (within 15 days after such date); and
b. date of performance testing (if required, at least 30 days prior to testing).



Reports are to be sent to:

Ohio Environmental Protection Agency
Division of Air Pollution Control
Northwest District Office
347 North Dunbridge Road
Bowling Green, Ohio 43402

f) Testing Requirements

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

a. Emission Limitation:

2.5 tons of PE per year

1.2 tons of PM10 per year

Applicable Compliance Method:

The annual emission limitations were determined by multiplying the following AP-42* emission factors by the maximum capacity of the unit of 500,000 tons per year, and dividing by 2000 lbs/ton. Therefore, provided compliance is shown the requirements to apply best available control measures to minimize or eliminate visible fugitive particulate emissions and with the annual production restriction, it shall be assumed that compliance with the annual emission limitations have been attained.

| Material Handling Operation | PE Emission Factor | PM10 Emission Factor |
|-------------------------------------|--------------------|----------------------|
| Truck unloading/dumping into feeder | 0.005 lbs/ton | 0.003 lbs/ton |
| Screening | 0.0022 lbs/ton | 0.00074 lbs/ton |
| Transfer Points (4 total) | 0.00014 lbs/ton | 0.000046 lbs/ton |

The controlled emission factors for the screening and material handling operations are from AP-42 Section 11.19.2-2 (08/04). The emission factors for truck unloading and front end loader dumping into the feeder are derived from AP-42 Section 13.2.4 (11/06).

b. Emission Limitation:

20% opacity, as a 3-minute average from the truck loading

Applicable Compliance Method:

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

c. Emission Limitation:

10% opacity, as a 6-minute average from the screening and from the associated material handling operations

Applicable Compliance Method:

If required, compliance shall be demonstrated using Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources").

- (2) In the first instance when this emissions unit operates as an affected facility at a nonmetallic mineral processing plant as specified in 60.670(a)(1), the permittee shall conduct, or have conducted, emission testing for the screening, and material handling operations (transfer points) of emissions unit P901. The emissions testing requirements of 40 CFR Part 60 Subpart OOO do not apply to the screening, and associated material handling operations when used to process material that is not defined as a non-metallic mineral. (non-metallic mineral is defined in 60.671).

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

The testing time frame indicated in this section shall be initiated by the first instance when this emissions unit operates at an affected facility at a nonmetallic mineral processing plant as specified in 60.670(a)(1). The emission testing shall be conducted within 60 days after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after the initial startup of such facility and at such other times as may be required by the Ohio Environmental Protection Agency, Division of Air Pollution Control. The emission testing shall be conducted to demonstrate compliance with the allowable visible emission rates for particulate emissions.

The following test methods shall be employed to demonstrate compliance with the allowable visible emission rates: Method 9 of 40 CFR Part 60, Appendix A shall be used to determine opacity.

The test(s) shall be conducted at a Maximum Source Operating Rate (MSOR), unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency. MSOR is defined as the condition that is most likely to challenge the emission control measures with regards to meeting the applicable emission standard(s). Although it generally consists of operating the emissions unit at its maximum material input/production rates and results in the highest emission rate of the tested pollutant, there may be circumstances where a lower emissions loading is deemed the most

challenging control scenario. Failure to test at the MSOR is justification for not accepting the test results as a demonstration of compliance.

Not later than 30 days prior to the proposed test dates(s), the permittee shall submit an "Intent to Test" notification to the Northwest District Office. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test. Failure to submit such notification for review and approval prior to the test(s) may result in the Northwest District Office's refusal to accept the results of the emissions tests.

Personnel from the Northwest District Office shall be permitted to witness the test, examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions unit and/or the performance of the control equipment.

A comprehensive written report of the emissions test(s) shall be signed by the person(s) responsible for the test(s) and submitted to the Northwest District Office within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Northwest District Office.

- g) Miscellaneous Requirements
 - (1) None.



4. F005, F005

Operations, Property and/or Equipment Description:

Aggregate scalping screen #2

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) | 2.5 tons particulate emissions (PE) per year 1.2 tons particulate matter 10 microns or less (PM10) per year Visible emission restrictions (See b)(2)d.) Best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust See b)(2)a. and b)(2)b. |
| b. | OAC rule 3745-17-07(B)(5) | See b)(2)f. |
| c. | OAC rule 3745-17-08(B) | See b)(2)g. |
| d. | 40 CFR, Part 60, Subpart OOO | Visible emission restrictions (See b)(2)b. and b)(2)d.) |

(2) Additional Terms and Conditions

- a. The BAT requirements under OAC rule 3745-31-05(A)(3) have been determined to be compliance with the following:
 - i. the emission limitations and visible emission restrictions contained in b)(1)a.;
 - ii. compliance with the operational restriction contained in c)(1);
 - iii. use of best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust; and
 - iv. compliance with 40 CFR Part 60, Subpart OOO.
- b. The screen and associated material handling operations (excluding front-end load to feeder transfer point) is applicable to the requirements of 40 CFR Part 60 Subpart OOO when the screen is used to process any non-metallic mineral material as defined in 60.671. The provisions of 40 CFR Part 60 Subpart OOO do not apply to the screen and associated material handling operations when used to process material that is not defined as a non-metallic mineral. The restrictions established under OAC 3745-31-05(A)(3) are equivalent to or more stringent than any requirements/emissions limitations as may be applicable under 40 CFR Part 60 Subpart OOO.
- c. The permittee shall employ the restrictions outlined in b)(2)a for the above-identified processes and material handling operations for the purpose of ensuring compliance with the above-mentioned applicable requirements. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- d. For each processing and material handling operation that is not adequately enclosed, the above-identified control measures 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 measures are necessary to ensure compliance with the above-mentioned applicable requirements. Any required implementation of the control measures shall continue during the operation of the material processing/handling operations until further observation confirms that use of the control measures is unnecessary.

Visible PE from the screening and material handling operations shall not exceed the following opacity restrictions:



| Emissions Point (Company ID) | Equipment Type | Opacity Limit | Regulatory Basis for Limit |
|------------------------------|----------------|---------------------------|---|
| Truck Loading to Hopper | transfer point | 20% as a 3-minute average | OAC rule 3745-31-05(F) |
| Hopper to Conveyor | transfer point | 10% as a 3-minute average | OAC rule 3745-31-05(F)& NSPS Subpart 000 |
| Conveyor to Conveyor | transfer point | 10% as a 6-minute average | OAC rule 3745-31-05(F) & NSPS Subpart 000 |
| Conveyor to Screen | transfer point | 10% as a 6-minute average | OAC rule 3745-31-05(F) & NSPS Subpart 000 |
| Screen | screening | 10% as a 6-minute average | OAC rule 3745-31-05(F) & NSPS Subpart 000 |
| Screen to Conveyor 1 | transfer point | 10% as a 6-minute average | OAC rule 3745-31-05(F) & NSPS Subpart 000 |
| Screen to Conveyor 2 | transfer point | 10% as a 6-minute average | OAC rule 3745-31-05(F) & NSPS Subpart 000 |

- e. The application and enforcement of the provisions of NSPS, as promulgated by the United States Environmental Protection Agency, 40 CFR Part 60, are delegated to the Ohio Environmental Protection Agency. The requirements of 40 CFR Part 60 are also federally enforceable.
 - f. This emissions unit is exempt from the visible particulate emission limitations for fugitive dust, specified in OAC rule 3745-17-07(B), pursuant to OAC rule 3745-17-07(B)(11)(e), because the emissions unit is not located within areas identified in "Appendix A" of OAC rule 3745-17-08.
 - g. This emissions unit is not located within areas identified in "Appendix A" of OAC rule 3745-17-08, therefore, the requirements of OAC rule 3745-17-08(B), which requires the installation of reasonably available control measures to prevent fugitive dust, do not apply to this emissions unit pursuant to OAC rule 3745-17-08(A)(1).
- c) Operational Restrictions
- (1) The maximum annual production rate for this emissions unit shall not exceed 500,000 tons per year.

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall maintain monthly records of the following information for this emissions unit:
 - a. the quantity of material processes, in tons; and
 - b. the annual, year to date, cumulative amount of material processed, in tons.
- (2) Except as otherwise provided in this section, for each material processing and handling operation that is not adequately enclosed, the permittee shall perform inspections of such material processing and handling operations in accordance with the following minimum frequencies:

| <u>Material Processing/Handling Operations</u> | <u>Minimum Inspection Frequency</u> |
|--|-------------------------------------|
| All Operations | Once During Each Day of Operation |

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

- (3) The permittee shall maintain records of the following information:
 - a. the date and reason any required inspection was not performed;
 - b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measures;
 - c. the dates the control measures were implemented; and
 - d. on a calendar quarter basis, the total number of days the control measures were implemented.

The information in (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) Annual Permit Evaluation Report (PER) forms will be mailed to the permittee at the end of the reporting period specified in the Authorization section of this permit. The permittee shall submit the PER in the form and manner provided by the Director by the due date identified in the Authorization section of this permit. The permit evaluation report shall cover a reporting period of no more than twelve-months for each air contaminant source identified in this permit.
- (2) The permittee shall identify the following information in the annual permit evaluation report in accordance with the monitoring requirements for visible emissions in term number d)(6) 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; and
 - b. each instance when a control measure, that was to be implemented as a result of an inspection, was not implemented.
- (3) Pursuant to the general provisions of 40 CFR 60, Subpart A, the source owner/operator is hereby advised of the requirement to report the following at the appropriate times for this emissions unit:
- a. notification of the actual date of initial startup of each affected facility.

For a combination of affected facilities in a production line that begin actual initial startup on the same day, a single notification of startup may be submitted. The notification shall be postmarked within 15 days after such date and shall include a description of each affected facility, equipment manufacturer, and serial number of the equipment, if available.
 - b. date of performance testing (if required, at least 30 days prior to testing).

The notification requirements for testing may be fulfilled by the "Intent to Test" (ITT) notification required in d)(7). The ITT form should indicate an indication that the requirements of b. above are being fulfilled by the ITT notification.
 - c. The Subpart A requirement under 40 CFR 60.7(a)(1) for notification of the date construction or reconstruction commenced is waived for affected facilities under Subpart OOO.

Reports are to be sent to:

Ohio Environmental Protection Agency
Division of Air Pollution Control
Northwest District Office
347 North Dunbridge Road
Bowling Green, Ohio 43402

- (4) The permittee shall comply with the applicable reporting requirements required under 40 CFR Part 60, Subpart OOO, including the following sections:

| | |
|--------------|-------------------------------------|
| 60.676(a)(2) | replacement of screening operations |
| 60.676(a)(3) | replacement of conveyor belts |
| 60.676(a)(4) | replacement of storage bins |

The notification shall be submitted to the Ohio EPA Northwest District Office within 30 days after the equipment replacement.



- (5) Pursuant to the general provisions of NSPS, the source owner/operator is hereby advised of the requirement to report the following at the appropriate times for this emissions unit:
 - a. actual start-up date (within 15 days after such date); and
 - b. date of performance testing (if required, at least 30 days prior to testing).

Reports are to be sent to:

Ohio Environmental Protection Agency
Division of Air Pollution Control
Northwest District Office
347 North Dunbridge Road
Bowling Green, Ohio 43402

f) Testing Requirements

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

- a. Emission Limitation: (from the Material Processing/Handling)

2.5 tons of PE per year

1.2 tons of PM10 per year

Applicable Compliance Method:

The annual emission limitations were determined by multiplying the following AP-42* emission factors by the maximum capacity of the unit of 500,000 tons per year, and dividing by 2000 lbs/ton. Therefore, provided compliance is shown the requirements to apply best available control measures to minimize or eliminate visible fugitive particulate emissions and with the annual production restriction, it shall be assumed that compliance with the annual emission limitations have been attained.

| Material Handling Operation | PE Emission Factor | PM10 Emission Factor |
|-------------------------------------|--------------------|----------------------|
| Truck unloading/dumping into feeder | 0.005 lbs/ton | 0.003 lbs/ton |
| Screening | 0.0022 lbs/ton | 0.00074 lbs/ton |
| Transfer Points (4 total)* | 0.00014 lbs/ton | 0.000046 lbs/ton |

* There is a total of 5 transfer points however for the purpose of emissions calculations there is only 4 as once the processed material leaves the screening operation it will go to either Conveyor #1 or Conveyor #2 but not both.

The controlled emission factors for the screening and material handling operations are from AP-42 Section 11.19.2-2 (08/04). The emission factors for truck unloading and front end loader dumping into the feeder are derived from AP-42 Section 13.2.4 (11/06).

b. Emission Limitation:

20% opacity, as a 3-minute average from the truck loading

Applicable Compliance Method:

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

c. Emission Limitation:

10% opacity, as a 6-minute average from the screening and from the associated material handling operations

Applicable Compliance Method:

If required, compliance shall be demonstrated using Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources").

- (2) In the first instance when this emissions unit operates as an affected facility at a nonmetallic mineral processing plant as specified in 60.670(a)(1), the permittee shall conduct, or have conducted, emission testing for the screening, and material handling operations (transfer points) of emissions unit P901. The emissions testing requirements of 40 CFR Part 60 Subpart OOO do not apply to the screening, and associated material handling operations when used to process material that is not defined as a non-metallic mineral. (non-metallic mineral is defined in 60.671).

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

The testing time frame indicated in this section shall be initiated by the first instance when this emissions unit operates at an affected facility at a nonmetallic mineral processing plant as specified in 60.670(a)(1). The emission testing shall be conducted within 60 days after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after the initial startup of such facility and at such other times as may be required by the Ohio Environmental Protection Agency, Division of Air Pollution Control. The emission testing shall be conducted to demonstrate compliance with the allowable visible emission rates for particulate emissions.

The following test methods shall be employed to demonstrate compliance with the allowable visible emission rates: Method 9 of 40 CFR Part 60, Appendix A shall be used to determine opacity.

The test(s) shall be conducted at a Maximum Source Operating Rate (MSOR), unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency. MSOR is defined as the condition that is most likely to challenge the emission control measures with regards to meeting the applicable emission standard(s). Although it generally consists of operating the emissions unit at its maximum material input/production rates and results in the highest emission rate of the tested pollutant, there may be circumstances where a lower emissions loading is deemed the most challenging control scenario. Failure to test at the MSOR is justification for not accepting the test results as a demonstration of compliance.

Not later than 30 days prior to the proposed test dates(s), the permittee shall submit an "Intent to Test" notification to the Northwest District Office. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test. Failure to submit such notification for review and approval prior to the test(s) may result in the Northwest District Office's refusal to accept the results of the emissions tests.

Personnel from the Northwest District Office shall be permitted to witness the test, examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions unit and/or the performance of the control equipment.

A comprehensive written report of the emissions test(s) shall be signed by the person(s) responsible for the test(s) and submitted to the Northwest District Office within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Northwest District Office.

- g) Miscellaneous Requirements
 - (1) None.



5. F006, F006

Operations, Property and/or Equipment Description:

Jaw Crusher

- 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) | 2.7 tons particulate emissions (PE) per year 1.3 tons particulate matter 10 microns or less (PM10) per year Visible emission restrictions (See b)(2)d.) Best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust See b)(2)a. and b)(2)b. |
| b. | OAC rule 3745-17-07(B)(5) | See b)(2)f. |
| c. | OAC rule 3745-17-08(B) | See b)(2)g. |
| d. | 40 CFR, Part 60, Subpart OOO | Visible emission restrictions (See b)(2)b. and b)(2)d.) |

- (2) Additional Terms and Conditions
- a. The BAT requirements under OAC rule 3745-31-05(A)(3) have been determined to be compliance with the following:
 - i. the emission limitations and visible emission restrictions contained in b)(1)a.;
 - ii. compliance with the operational restriction contained in c)(1);
 - iii. use of best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust; and
 - iv. compliance with 40 CFR Part 60, Subpart OOO.
 - b. The crusher and associated material handling operations (excluding front-end load to feeder transfer point) is applicable to the requirements of 40 CFR Part 60 Subpart OOO when the crusher is used to process any non-metallic mineral material as defined in 60.671. The provisions of 40 CFR Part 60 Subpart OOO do not apply to the s crusher and associated material handling operations when used to process material that is not defined as a non-metallic mineral. The restrictions established under OAC 3745-31-05(A)(3) are equivalent to or more stringent than any requirements/emissions limitations as may be applicable under 40 CFR Part 60 Subpart OOO.
 - c. The permittee shall employ the restrictions outlined in b)(2)a for the above-identified processes and material handling operations for the purpose of ensuring compliance with the above-mentioned applicable requirements. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
 - d. For each processing and material handling operation that is not adequately enclosed, the above-identified control measures 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 measures are necessary to ensure compliance with the above-mentioned applicable requirements. Any required implementation of the control measures shall continue during the operation of the material processing/handling operations until further observation confirms that use of the control measures is unnecessary.
- Visible PE from the crushing and material handling operations shall not exceed the following opacity restrictions:



| Emissions Point (Company ID) | Equipment Type | Opacity Limit | Regulatory Basis for Limit |
|------------------------------|----------------|---------------------------|---|
| Truck Loading to Hopper | transfer point | 20% as a 3-minute average | OAC rule 3745-31-05(F) |
| Hopper to Crusher | transfer point | 10% as a 3-minute average | OAC rule 3745-31-05(F)& NSPS Subpart 000 |
| Crusher | crushing | 10% as a 6-minute average | OAC rule 3745-31-05(F) & NSPS Subpart 000 |
| Crusher to Conveyor #1 | transfer point | 10% as a 6-minute average | OAC rule 3745-31-05(F) & NSPS Subpart 000 |
| Crusher to Conveyor #2 | transfer point | 10% as a 6-minute average | OAC rule 3745-31-05(F) & NSPS Subpart 000 |
| Conveyor #1 to Conveyor | transfer point | 10% as a 6-minute average | OAC rule 3745-31-05(F) & NSPS Subpart 000 |
| Conveyor #2 to Conveyor | transfer point | 10% as a 6-minute average | OAC rule 3745-31-05(F) & NSPS Subpart 000 |

- e. The application and enforcement of the provisions of NSPS, as promulgated by the United States Environmental Protection Agency, 40 CFR Part 60, are delegated to the Ohio Environmental Protection Agency. The requirements of 40 CFR Part 60 are also federally enforceable.
 - f. This emissions unit is exempt from the visible particulate emission limitations for fugitive dust, specified in OAC rule 3745-17-07(B), pursuant to OAC rule 3745-17-07(B)(11)(e), because the emissions unit is not located within areas identified in "Appendix A" of OAC rule 3745-17-08.
 - g. This emissions unit is not located within areas identified in "Appendix A" of OAC rule 3745-17-08, therefore, the requirements of OAC rule 3745-17-08(B), which requires the installation of reasonably available control measures to prevent fugitive dust, do not apply to this emissions unit pursuant to OAC rule 3745-17-08(A)(1).
- c) Operational Restrictions
- (1) The maximum annual production rate for this emissions unit shall not exceed 500,000 tons per year.

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall maintain monthly records of the following information for this emissions unit:
 - a. the quantity of material processes, in tons; and
 - b. the annual, year to date, cumulative amount of material processed, in tons.
- (2) Except as otherwise provided in this section, for each material processing and handling operation that is not adequately enclosed, the permittee shall perform inspections of such material processing and handling operations in accordance with the following minimum frequencies:

| <u>Material Processing/Handling Operations</u> | <u>Minimum Inspection Frequency</u> |
|--|-------------------------------------|
| All Operations | Once During Each Day of Operation |

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

- (3) The permittee shall maintain records of the following information:
 - a. the date and reason any required inspection was not performed;
 - b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measures;
 - c. the dates the control measures were implemented; and
 - d. on a calendar quarter basis, the total number of days the control measures were implemented.

The information in (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) Annual Permit Evaluation Report (PER) forms will be mailed to the permittee at the end of the reporting period specified in the Authorization section of this permit. The permittee shall submit the PER in the form and manner provided by the Director by the due date identified in the Authorization section of this permit. The permit evaluation report shall cover a reporting period of no more than twelve-months for each air contaminant source identified in this permit.
- (2) The permittee shall identify the following information in the annual permit evaluation report in accordance with the monitoring requirements for visible emissions in term number d)(6) 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; and
 - b. each instance when a control measure, that was to be implemented as a result of an inspection, was not implemented.
- (3) Pursuant to the general provisions of 40 CFR 60, Subpart A, the source owner/operator is hereby advised of the requirement to report the following at the appropriate times for this emissions unit:
- a. notification of the actual date of initial startup of each affected facility.

For a combination of affected facilities in a production line that begin actual initial startup on the same day, a single notification of startup may be submitted. The notification shall be postmarked within 15 days after such date and shall include a description of each affected facility, equipment manufacturer, and serial number of the equipment, if available.
 - b. date of performance testing (if required, at least 30 days prior to testing).

The notification requirements for testing may be fulfilled by the "Intent to Test" (ITT) notification required in d)(7). The ITT form should indicate an indication that the requirements of b. above are being fulfilled by the ITT notification.
 - c. The Subpart A requirement under 40 CFR 60.7(a)(1) for notification of the date construction or reconstruction commenced is waived for affected facilities under Subpart OOO.

Reports are to be sent to:

Ohio Environmental Protection Agency
Division of Air Pollution Control
Northwest District Office
347 North Dunbridge Road
Bowling Green, Ohio 43402

- (4) The permittee shall comply with the applicable reporting requirements required under 40 CFR Part 60, Subpart OOO, including the following sections:

| | |
|--------------|------------------------------------|
| 60.676(a)(2) | replacement of crushing operations |
| 60.676(a)(3) | replacement of conveyor belts |
| 60.676(a)(4) | replacement of storage bins |

The notification shall be submitted to the Ohio EPA Northwest District Office within 30 days after the equipment replacement.



- (5) Pursuant to the general provisions of NSPS, the source owner/operator is hereby advised of the requirement to report the following at the appropriate times for this emissions unit:
 - a. actual start-up date (within 15 days after such date); and
 - b. date of performance testing (if required, at least 30 days prior to testing).

Reports are to be sent to:

Ohio Environmental Protection Agency
Division of Air Pollution Control
Northwest District Office
347 North Dunbridge Road
Bowling Green, Ohio 43402

f) Testing Requirements

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

a. Emission Limitation:

2.7 tons of PE per year

1.3 tons of PM10 per year

Applicable Compliance Method:

The annual emission limitations were determined by multiplying the following AP-42* emission factors by the maximum capacity of the unit of 500,000 tons per year, and dividing by 2000 lbs/ton. Therefore, provided compliance is shown the requirements to apply best available control measures to minimize or eliminate visible fugitive particulate emissions and with the annual production restriction, it shall be assumed that compliance with the annual emission limitations have been attained.

| Material Handling Operation | PE Emission Factor | PM10 Emission Factor |
|-------------------------------------|--------------------|----------------------|
| Truck unloading/dumping into feeder | 0.005 lbs/ton | 0.003 lbs/ton |
| Crushing | 0.003 lbs/ton | 0.0012 lbs/ton |
| Transfer Points (4 total)* | 0.00014 lbs/ton | 0.000046 lbs/ton |

* There is a total of 6 transfer points however for the purpose of emissions calculations there is only 4 as once the processed material leaves the crushing operation it will go to either Conveyor #1 or Conveyor #2 but not both.

The controlled emission factors for the crushing and material handling operations are from AP-42 Section 11.19.2-2 (08/04). The emission factors for truck unloading and front end loader dumping into the feeder are derived from AP-42 Section 13.2.4 (11/06).

b. Emission Limitation:

20% opacity, as a 3-minute average from the truck loading

Applicable Compliance Method:

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

c. Emission Limitation:

10% opacity, as a 6-minute average from the crushing and from the associated material handling operations

Applicable Compliance Method:

If required, compliance shall be demonstrated using Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources").

- (2) In the first instance when this emissions unit operates as an affected facility at a nonmetallic mineral processing plant as specified in 60.670(a)(1), the permittee shall conduct, or have conducted, emission testing for the crushing, and material handling operations (transfer points) of emissions unit P901. The emissions testing requirements of 40 CFR Part 60 Subpart OOO do not apply to the crushing, and associated material handling operations when used to process material that is not defined as a non-metallic mineral. (non-metallic mineral is defined in 60.671).

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

The testing time frame indicated in this section shall be initiated by the first instance when this emissions unit operates at an affected facility at a nonmetallic mineral processing plant as specified in 60.670(a)(1). The emission testing shall be conducted within 60 days after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after the initial startup of such facility and at such other times as may be required by the Ohio Environmental Protection Agency, Division of Air Pollution Control. The emission testing shall be conducted to demonstrate compliance with the allowable visible emission rates for particulate emissions.

The following test methods shall be employed to demonstrate compliance with the allowable visible emission rates: Method 9 of 40 CFR Part 60, Appendix A shall be used to determine opacity.

The test(s) shall be conducted at a Maximum Source Operating Rate (MSOR), unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency. MSOR is defined as the condition that is most likely to challenge the emission control measures with regards to meeting the applicable emission standard(s). Although it generally consists of operating the emissions unit at its maximum material input/production rates and results in the highest emission rate of the tested pollutant, there may be circumstances where a lower emissions loading is deemed the most challenging control scenario. Failure to test at the MSOR is justification for not accepting the test results as a demonstration of compliance.

Not later than 30 days prior to the proposed test dates(s), the permittee shall submit an "Intent to Test" notification to the Northwest District Office. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test. Failure to submit such notification for review and approval prior to the test(s) may result in the Northwest District Office's refusal to accept the results of the emissions tests.

Personnel from the Northwest District Office shall be permitted to witness the test, examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions unit and/or the performance of the control equipment.

A comprehensive written report of the emissions test(s) shall be signed by the person(s) responsible for the test(s) and submitted to the Northwest District Office within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Northwest District Office.

- g) Miscellaneous Requirements
 - (1) None.



6. F007, F007

Operations, Property and/or Equipment Description:

Mineral Extraction - includes overburden removal, overburden loading, bulldozing, and mineral loading

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)(a) | 2.7 tons fugitive particulate emissions (PE)/year 1.1 tons fugitive particulate matter of 10 microns or less in size (PM10)/year Opacity restrictions [See b)(2)e.] Best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust [See b)(2)b. through b)(2)d.] |
| b. | OAC rule 3745-17-07(B) | See b)(2)f. |
| c. | OAC rule 3745-17-08(B) | See b)(2)g. |

(2) Additional Terms and Conditions

- a. The following mineral extraction operations are covered by this permit and subject to the above mentioned requirements:

overburden removal, overburden loading, mineral loading, bulldozing, and wind erosion.

- b. The permittee shall employ best available control measures for the above-identified mineral extraction operations for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to perform the following control measures to ensure compliance:

| <u>Mineral Extraction Operation:</u> | <u>Control Measure(s):</u> |
|--------------------------------------|---------------------------------|
| overburden removal | water application, as necessary |
| overburden loading | water application, as necessary |
| mineral loading | water application, as necessary |
| bulldozing | water application, as necessary |
| wind erosion | water application, as necessary |

Nothing in the above table shall prohibit the permittee from employing other control measures to ensure compliance.

- c. For each mineral extraction operation, 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 measures(s) is (are) necessary to ensure compliance with the above-mentioned applicable requirements. Any required implementation of the control measures(s) shall continue during the mineral extraction 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)(a).
- e. Visible particulate emissions shall not exceed 20% opacity as a 3-minute average from the following mineral extraction operations: overburden removal, overburden loading, mineral loading, and wind erosion.
- f. This emissions unit is exempt from the visible particulate emission limitations for fugitive dust, specified in OAC rule 3745-17-07(B), pursuant to OAC rule 3745-17-07(B)(11)(e), because the emissions unit is not located within areas identified in "Appendix A" of OAC rule 3745-17-08.

g. This emissions unit is not located within areas identified in "Appendix A" of OAC rule 3745-17-08, therefore, the requirements of OAC rule 3745-17-08(B), which requires the installation of reasonably available control measures to prevent fugitive dust, do not apply to this emissions unit pursuant to OAC rule 3745-17-08(A)(1).

c) Operational Restrictions

(1) The permittee shall not exceed a mineral extraction throughput of 500,000 tons of material per year (this restriction is based on the amount of materials loaded into trucks).

d) Monitoring and/or Recordkeeping Requirements

(1) Except as otherwise provided in this section, for mineral extraction operations that are not adequately enclosed, the permittee shall perform inspections of such operations during representative, normal operating conditions in accordance with the following minimum frequencies:

| Mineral Extraction Operation | Minimum Inspection Frequency |
|-------------------------------------|-------------------------------------|
| overburden removal | once per day of operation |
| overburden loading | once per day of operation |
| mineral loading | once per day of operation |
| bulldozing | once per day of operation |
| wind erosion | once per day of operation |

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

- a. the date and reason any required inspection was not performed;
- b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measure(s);
- c. the dates the control measure(s) was (were) implemented; and
- d. on a calendar quarter basis, the total number of days the control measure(s) was (were) implemented.

The information in d)(2)d. shall be kept separately for each mineral extraction operation identified above, and shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

(3) The permittee shall maintain the following monthly mineral extraction records:

- a. the total material throughput (i.e. the amount of stone loaded into trucks), in tons per month; and



b. the annual, year-to-date, amount of material processed [sum of d)(2)a. for each calendar month to date from January to December].

e) Reporting Requirements

(1) Annual Permit Evaluation Report (PER) forms will be mailed to the permittee at the end of the reporting period specified in the Authorization section of this permit. The permittee shall submit the PER in the form and manner provided by the director by the due date identified in the Authorization section of this permit. The permit evaluation report shall cover a reporting period of no more than twelve-months for each air contaminant source identified in this permit.

f) Testing Requirements

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

Emission Limitation:

2.7 tons fugitive PE/year & 1.1 tons fugitive PM10/year

Applicable Compliance Method:

The annual fugitive particulate emission limitations were developed by applying the following emission factors/equations and control efficiencies to the associated process weight rates:

| Mineral Extraction Operations | Maximum Process Weight Rate | Control Efficiency | PE Emission Factor | PM10 Emission Factor | Emission Factor Citation |
|-------------------------------|-----------------------------|--------------------|--------------------|----------------------------------|--------------------------|
| overburden removal | 20,000 tons/yr | None established | 0.058 lbs/ton | PE to PM10 relative ratio 2.11:1 | AP-42 11.9-4 (07/98) |
| overburden loading | 20,000 tons/yr | None established | 0.037 lbs/ton | PE to PM10 relative ratio 2.11:1 | AP-42 11.9-4 (07/98) |
| mineral loading | 500,000 tons/yr | None established | 0.002 lbs/ton | 0.001 lbs/ton | AP-42 13.2.4-4 (11/06) |
| bulldozing | 200 hrs | None established | 9.5 lbs/hr | 2.5 lbs/hr | AP-42 11.9-4 (07/98) |

Therefore, provided compliance is shown with the operational restrictions of this permit and the requirement to apply best available control measures, compliance with the annual emission limitations will be assumed.

Emission Limitation:

Visible particulate emissions shall not exceed 20% opacity as a 3-minute average from the following mineral extraction operations: overburden removal, overburden loading, mineral loading, drilling and wind erosion.

Applicable Compliance Method:

If required, compliance shall be demonstrated using 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.



7. P001, P001

Operations, Property and/or Equipment Description:

68hp Diesel Engine #3

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) | 0.91 lbs of nitrogen oxides (NOx)/hour; 1.4 tons of NO _x per year 0.29 lb of carbon monoxide (CO)/hour; 0.4 ton of CO per year 0.07 lb particulate matter 10 microns or less (PM10)/hour; 0.1 ton of PM10 per year (See b)(2)e.) See b)(2)a. |
| b. | OAC rule 3745-17-11(B)(5)(a) | None, see b)(2)d. |
| c. | OAC rule 3745-17-07(A) | Visible particulate emissions shall not exceed 20% opacity as a six-minute average, except as provided by rule |
| d. | OAC rule 3745-18-06(G) | None, see b)(2)b. |
| e. | 40 CFR, Part 60, Subpart IIII | None, see b)(2)c. |

- (2) Additional Terms and Conditions
- a. The BAT requirements under OAC rule 3745-31-05(A)(3) have been determined to be compliance with the following emission limitations:
 - i. 0.91 lbs of NO_x/hour and 1.4 tons of NO_x per year
 - ii. 0.29 lb of CO/hour and 0.4 ton of CO per year
 - iii. 0.07 lb of PM₁₀/hour and 0.1 ton of PM₁₀ per year
 - b. This emissions unit is exempt from the requirements of OAC rule 3745-18-06 pursuant to OAC rule 3745-18-06(B).
 - c. This emissions unit is not subject to 40 CFR Part 60, Subpart IIII, Standards of Performance for Stationary Compression Ignition Internal Combustion because the date construction commenced for the engine is prior to July 11, 2005.
 - d. The emission limitation established by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
 - e. All particulate matter emissions from the diesel engine are PM₁₀.
- c) Operational Restrictions
- (1) The maximum annual operating hours for emissions unit P001 shall not exceed 3000 hours per year.
- d) Monitoring and/or Recordkeeping Requirements
- (1) The permittee shall maintain monthly records of the following information for this emissions unit:
 - a. number of hours operated; and
 - b. the annual, year to date, cumulative number of hours operated.
- e) Reporting Requirements
- (1) Annual Permit Evaluation Report (PER) forms will be mailed to the permittee at the end of the reporting period specified in the Authorization section of this permit. The permittee shall submit the PER in the form and manner provided by the Director by the due date identified in the Authorization section of this permit. The permit evaluation report shall cover a reporting period of no more than twelve-months for each air contaminant source identified in this permit.
- f) Testing Requirements
- (1) Compliance with the emissions limitations in section b)(1) of these terms and conditions shall be determined in accordance with the following methods:



Emission Limitations:

0.91 lbs of NO_x/hour; 1.4 tons of NO_x per year

0.29 lb of CO/hour; 0.4 ton of CO per year

0.07 lb PM₁₀/hour; 0.1 ton of PM₁₀ per year

Applicable Compliance Method:

The hourly emission limitations represent the potential to emit* for this emissions unit. Therefore no monitoring record keeping, or deviation reporting is required to demonstrate compliance with these limitations.

*Potential to emit for this emissions unit was established by multiplying the appropriate the AP-42 emission factors [Table 3.3-1 (revised 10/96)] of 4.41lb NO_x/mmBtu, 0.95lb CO/mmBtu, and 0.31lb PM₁₀/mmBtu, by the emission units' maximum capacity of 0.2055 mmBtu/hr.

If required, the permittee shall demonstrate compliance in accordance with the following test methods:

for NO_x, Methods 1 through 4 and 7 of 40 CFR, Part 60, Appendix A;

for CO, Methods 1 through 4 and 10 of 40 CFR, Part 60, Appendix A;

for PM₁₀, Methods 201/201A and 202 of 40 CFR, Part 51, Appendix M;

Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA, Northwest District Office.

The annual emission limitations were established by multiplying the hourly emission limitations by a maximum operating schedule of 3000 hours per year and dividing by 2000 lbs/ton. Therefore provided compliance is shown the hourly limitation and with the 3000 hours per year operational restriction, compliance with the annual limitation will be assumed.

Emission Limitation:

20% opacity, as a 6-minute average, except as provided by rule.

Applicable Compliance Method:

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

g) Miscellaneous Requirements

(1) None.

8. P002, P002

Operations, Property and/or Equipment Description:

250hp Diesel Engine #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) | 1.81 lbs of nitrogen oxides (NO _x)/hour; 2.7 tons of NO _x per year 0.39 lb of carbon monoxide (CO)/hour; 0.6 ton of CO per year 0.13 lb particulate matter 10 microns or less (PM ₁₀)/hour; 0.2 ton of PM ₁₀ per year (See b)(2)e.) See b)(2)a. |
| b. | OAC rule 3745-17-11(B)(5)(a) | None, see b)(2)d. |
| c. | OAC rule 3745-17-07(A) | Visible particulate emissions shall not exceed 20% opacity as a six-minute average, except as provided by rule |
| d. | OAC rule 3745-18-06(G) | None, see b)(2)b. |
| e. | 40 CFR, Part 60, Subpart IIII | None, see b)(2)c. |

- (2) Additional Terms and Conditions
- a. The BAT requirements under OAC rule 3745-31-05(A)(3) have been determined to be compliance with the following emission limitations:
 - i. 1.81 lbs of NO_x/hour and 2.7 tons of NO_x per year
 - ii. 0.39 lb of CO/hour and 0.6 ton of CO per year
 - iii. 0.13 lb of PM₁₀/hour and 0.2 ton of PM₁₀ per year
 - b. This emissions unit is exempt from the requirements of OAC rule 3745-18-06 pursuant to OAC rule 3745-18-06(B).
 - c. This emissions unit is not subject to 40 CFR Part 60, Subpart IIII, Standards of Performance for Stationary Compression Ignition Internal Combustion because the date construction commenced for the engine is prior to July 11, 2005.
 - d. The emission limitation established by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
 - e. All particulate matter emissions from the diesel engine are PM₁₀.
- c) Operational Restrictions
- (1) The maximum annual operating hours for emissions unit P001 shall not exceed 3000 hours per year.
- d) Monitoring and/or Recordkeeping Requirements
- (1) The permittee shall maintain monthly records of the following information for this emissions unit:
 - a. number of hours operated; and
 - b. the annual, year to date, cumulative number of hours operated.
- e) Reporting Requirements
- (1) Annual Permit Evaluation Report (PER) forms will be mailed to the permittee at the end of the reporting period specified in the Authorization section of this permit. The permittee shall submit the PER in the form and manner provided by the Director by the due date identified in the Authorization section of this permit. The permit evaluation report shall cover a reporting period of no more than twelve-months for each air contaminant source identified in this permit.
- f) Testing Requirements
- (1) Compliance with the emissions limitations in section b)(1) of these terms and conditions shall be determined in accordance with the following methods:

Emission Limitations:

1.81 lbs of NO_x/hour; 2.7 tons of NO_x per year

0.39 lb of CO/hour; 0.6 ton of CO per year

0.13 lb PM₁₀/hour; 0.2 ton of PM₁₀ per year

Applicable Compliance Method:

The hourly emission limitations represent the potential to emit* for this emissions unit. Therefore no monitoring record keeping, or deviation reporting is required to demonstrate compliance with these limitations.

*Potential to emit for this emissions unit was established by multiplying the appropriate the AP-42 emission factors [Table 3.3-1 (revised 10/96)] of 4.41lb NO_x/mmBtu, 0.95lb CO/mmBtu, and 0.31lb PM₁₀/mmBtu, by the emission units' maximum capacity of 0.411 mmBtu/hr.

If required, the permittee shall demonstrate compliance in accordance with the following test methods:

for NO_x, Methods 1 through 4 and 7 of 40 CFR, Part 60, Appendix A;

for CO, Methods 1 through 4 and 10 of 40 CFR, Part 60, Appendix A;

for PM₁₀, Methods 201/201A and 202 of 40 CFR, Part 51, Appendix M;

Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA, Northwest District Office.

The annual emission limitations were established by multiplying the hourly emission limitations by a maximum operating schedule of 3000 hours per year and dividing by 2000 lbs/ton. Therefore provided compliance is shown the hourly limitation and with the 3000 hours per year operational restriction, compliance with the annual limitation will be assumed.

Emission Limitation:

20% opacity, as a 6-minute average, except as provided by rule.

Applicable Compliance Method:

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

g) Miscellaneous Requirements

(1) None.



9. P003, P003

Operations, Property and/or Equipment Description:

30hp Diesel Engine #5 (Screen machine - PRODUCER)

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) | 0.30 lbs of nitrogen oxides (NOx)/hour; 0.5 ton of NO _x per year 0.07 lb of carbon monoxide (CO)/hour; 0.1 ton of CO per year 0.02 lb particulate matter 10 microns or less (PM10)/hour; 0.1 ton of PM10 per year (See b)(2)e.) See b)(2)a. |
| b. | OAC rule 3745-17-11(B)(5)(a) | None, see b)(2)d. |
| c. | OAC rule 3745-17-07(A) | Visible particulate emissions shall not exceed 20% opacity as a six-minute average, except as provided by rule |
| d. | OAC rule 3745-18-06(G) | None, see b)(2)b. |
| e. | 40 CFR, Part 60, Subpart IIII | None, see b)(2)c. |

- (2) Additional Terms and Conditions
- a. The BAT requirements under OAC rule 3745-31-05(A)(3) have been determined to be compliance with the following emission limitations:
 - i. 0.30 lbs of NO_x/hour and 0.5 ton of NO_x per year
 - ii. 0.07 lb of CO/hour and 0.1 ton of CO per year
 - iii. 0.02 lb of PM₁₀/hour and 0.1 ton of PM₁₀ per year
 - b. This emissions unit is exempt from the requirements of OAC rule 3745-18-06 pursuant to OAC rule 3745-18-06(B).
 - c. This emissions unit is not subject to 40 CFR Part 60, Subpart IIII, Standards of Performance for Stationary Compression Ignition Internal Combustion because the date construction commenced for the engine is prior to July 11, 2005.
 - d. The emission limitation established by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
 - e. All particulate matter emissions from the diesel engine are PM₁₀.
- c) Operational Restrictions
- (1) The maximum annual operating hours for emissions unit P001 shall not exceed 3000 hours per year.
- d) Monitoring and/or Recordkeeping Requirements
- (1) The permittee shall maintain monthly records of the following information for this emissions unit:
 - a. number of hours operated; and
 - b. the annual, year to date, cumulative number of hours operated.
- e) Reporting Requirements
- (1) Annual Permit Evaluation Report (PER) forms will be mailed to the permittee at the end of the reporting period specified in the Authorization section of this permit. The permittee shall submit the PER in the form and manner provided by the Director by the due date identified in the Authorization section of this permit. The permit evaluation report shall cover a reporting period of no more than twelve-months for each air contaminant source identified in this permit.
- f) Testing Requirements
- (1) Compliance with the emissions limitations in section b)(1) of these terms and conditions shall be determined in accordance with the following methods:

Emission Limitations:

0.30 lbs of NO_x/hour; 0.5 ton of NO_x per year

0.07 lb of CO/hour; 0.1 ton of CO per year

0.02 lb PM₁₀/hour; 0.1 ton of PM₁₀ per year

Applicable Compliance Method:

The hourly emission limitations represent the potential to emit* for this emissions unit. Therefore no monitoring record keeping, or deviation reporting is required to demonstrate compliance with these limitations.

*Potential to emit for this emissions unit was established by multiplying the appropriate the AP-42 emission factors [Table 3.3-1 (revised 10/96)] of 4.41lb NO_x/mmBtu, 0.95lb CO/mmBtu, and 0.31lb PM₁₀/mmBtu, by the emission units' maximum capacity of 0.0685 mmBtu/hr.

If required, the permittee shall demonstrate compliance in accordance with the following test methods:

for NO_x, Methods 1 through 4 and 7 of 40 CFR, Part 60, Appendix A;

for CO, Methods 1 through 4 and 10 of 40 CFR, Part 60, Appendix A;

for PM₁₀, Methods 201/201A and 202 of 40 CFR, Part 51, Appendix M;

Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA, Northwest District Office.

The annual emission limitations were established by multiplying the hourly emission limitations by a maximum operating schedule of 3000 hours per year and dividing by 2000 lbs/ton. Therefore provided compliance is shown the hourly limitation and with the 3000 hours per year operational restriction, compliance with the annual limitation will be assumed.

Emission Limitation:

20% opacity, as a 6-minute average, except as provided by rule.

Applicable Compliance Method:

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

g) Miscellaneous Requirements

(1) None.

10. P004, P004

Operations, Property and/or Equipment Description:

250hp Plant generator #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) | 1.81 lbs of nitrogen oxides (NO _x)/hour; 2.7 tons of NO _x per year 0.39 lb of carbon monoxide (CO)/hour; 0.6 ton of CO per year 0.13 lb particulate matter 10 microns or less (PM10)/hour; 0.2 ton of PM10 per year (See b)(2)e.) See b)(2)a. |
| b. | OAC rule 3745-17-11(B)(5)(a) | None, see b)(2)d. |
| c. | OAC rule 3745-17-07(A) | Visible particulate emissions shall not exceed 20% opacity as a six-minute average, except as provided by rule |
| d. | OAC rule 3745-18-06(G) | None, see b)(2)b. |
| e. | 40 CFR, Part 60, Subpart IIII | None, see b)(2)c. |

- (2) Additional Terms and Conditions
- a. The BAT requirements under OAC rule 3745-31-05(A)(3) have been determined to be compliance with the following emission limitations:
 - i. 1.81 lbs of NO_x/hour and 2.7 tons of NO_x per year
 - ii. 0.39 lb of CO/hour and 0.6 ton of CO per year
 - iii. 0.13 lb of PM₁₀/hour and 0.2 ton of PM₁₀ per year
 - b. This emissions unit is exempt from the requirements of OAC rule 3745-18-06 pursuant to OAC rule 3745-18-06(B).
 - c. This emissions unit is not subject to 40 CFR Part 60, Subpart IIII, Standards of Performance for Stationary Compression Ignition Internal Combustion because the date construction commenced for the engine is prior to July 11, 2005.
 - d. The emission limitation established by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
 - e. All particulate matter emissions from the diesel engine are PM₁₀.
- c) Operational Restrictions
- (1) The maximum annual operating hours for emissions unit P001 shall not exceed 3000 hours per year.
- d) Monitoring and/or Recordkeeping Requirements
- (1) The permittee shall maintain monthly records of the following information for this emissions unit:
 - a. number of hours operated; and
 - b. the annual, year to date, cumulative number of hours operated.
- e) Reporting Requirements
- (1) Annual Permit Evaluation Report (PER) forms will be mailed to the permittee at the end of the reporting period specified in the Authorization section of this permit. The permittee shall submit the PER in the form and manner provided by the Director by the due date identified in the Authorization section of this permit. The permit evaluation report shall cover a reporting period of no more than twelve-months for each air contaminant source identified in this permit.
- f) Testing Requirements
- (1) Compliance with the emissions limitations in section b)(1) of these terms and conditions shall be determined in accordance with the following methods:

Emission Limitations:

1.81 lbs of NO_x/hour; 2.7 tons of NO_x per year

0.39 lb of CO/hour; 0.6 ton of CO per year

0.13 lb PM₁₀/hour; 0.2 ton of PM₁₀ per year

Applicable Compliance Method:

The hourly emission limitations represent the potential to emit* for this emissions unit. Therefore no monitoring record keeping, or deviation reporting is required to demonstrate compliance with these limitations.

*Potential to emit for this emissions unit was established by multiplying the appropriate the AP-42 emission factors [Table 3.3-1 (revised 10/96)] of 4.41lb NO_x/mmBtu, 0.95lb CO/mmBtu, and 0.31lb PM₁₀/mmBtu, by the emission units' maximum capacity of 0.411 mmBtu/hr.

If required, the permittee shall demonstrate compliance in accordance with the following test methods:

for NO_x, Methods 1 through 4 and 7 of 40 CFR, Part 60, Appendix A;

for CO, Methods 1 through 4 and 10 of 40 CFR, Part 60, Appendix A;

for PM₁₀, Methods 201/201A and 202 of 40 CFR, Part 51, Appendix M;

Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA, Northwest District Office.

The annual emission limitations were established by multiplying the hourly emission limitations by a maximum operating schedule of 3000 hours per year and dividing by 2000 lbs/ton. Therefore provided compliance is shown the hourly limitation and with the 3000 hours per year operational restriction, compliance with the annual limitation will be assumed.

Emission Limitation:

20% opacity, as a 6-minute average, except as provided by rule.

Applicable Compliance Method:

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

g) Miscellaneous Requirements

- (1) None.