



John R. Kasich, Governor
 Mary Taylor, Lt. Governor
 Craig W. Butler, Director

8/12/2015

Certified Mail

Anthony Ruggiero
 S & S Aggregates Inc. Portable Findlay Scr #15
 3570 South River Rd.
 PO Box 1585
 Zanesville, OH 43702

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

RE: FINALAIR POLLUTION PERMIT-TO-INSTALL AND OPERATE

Facility ID: 0660010267
 Permit Number: P0090088
 Permit Type: Renewal
 County: Richland

Dear Permit Holder:

Enclosed please find a final Ohio Environmental Protection Agency (EPA) 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. In this letter you will find the information on the following topics:

- **How to appeal this permit**
- **How to save money, reduce pollution and reduce energy consumption**
- **How to give us feedback on your permitting experience**
- **How to get an electronic copy of your permit**

How to appeal this permit

The issuance of this PTIO 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
 77 South High Street, 17th Floor
 Columbus, OH 43215

How to save money, reduce pollution and reduce energy consumption

The Ohio EPA is encouraging companies to investigate pollution prevention and energy conservation. Not only will this reduce pollution and energy consumption, but it can also save you money. If you would like to learn ways you can save money while protecting the environment, please contact our Office of Compliance Assistance and Pollution Prevention at (614) 644-3469. Additionally, all or a portion of the capital expenditures related to installing air pollution control equipment under this permit may be eligible for financing and State tax exemptions through the Ohio Air Quality Development Authority (OAQDA) under Ohio Revised Code Section 3706. For more information, see the OAQDA website: www.ohioairquality.org/clean_air

How to give us feedback on your permitting experience

Please complete a survey at www.epa.ohio.gov/survey.aspx and give us feedback on your permitting experience. We value your opinion.

How to get an electronic copy of your permit

This permit can be accessed electronically via the eBusiness Center: Air Services in Microsoft Word format or in Adobe PDF on the Division of Air Pollution Control (DAPC) Web page, www.epa.ohio.gov/dapc by clicking the "Search for Permits" link under the Permitting topic on the Programs tab.

If you have any questions, please contact Ohio EPA DAPC, Southeast District Office at (740)385-8501 or the Office of Compliance Assistance and Pollution Prevention at (614) 644-3469.

Sincerely,



Michael E. Hopkins, P.E.
Assistant Chief, Permitting Section, DAPC

Cc: Ohio EPA-NWDO



FINAL

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

S & S Aggregates Inc. Portable Findlay Scr #15

Facility ID:	0660010267
Permit Number:	P0090088
Permit Type:	Renewal
Issued:	8/12/2015
Effective:	8/12/2015
Expiration:	8/12/2020



Division of Air Pollution Control
Permit-to-Install and Operate
for
S & S Aggregates Inc. Portable Findlay Scr #15

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Final Permit-to-Install and Operate
S & S Aggregates Inc. Portable Findlay Scr #15
Permit Number: P0090088
Facility ID: 0660010267
Effective Date: 8/12/2015

Authorization

Facility ID: 0660010267
Application Number(s): A0021381, A0021382, A0021383
Permit Number: P0090088
Permit Description: Aggregate plant with a portable finlay screen, diesel-fired engine, paved and unpaved roadways, and storage piles
Permit Type: Renewal
Permit Fee: \$0.00
Issue Date: 8/12/2015
Effective Date: 8/12/2015
Expiration Date: 8/12/2020
Permit Evaluation Report (PER) Annual Date: Apr 1 - Mar 31, Due May 15

This document constitutes issuance to:

S & S Aggregates Inc. Portable Findlay Scr #15
4540 SR 39
Perryville, OH 44864

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

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

Ohio EPA DAPC, Southeast District Office
2195 Front Street
Logan, OH 43138
(740)385-8501

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


Craig W. Butler
Director



Authorization (continued)

Permit Number: P0090088
Permit Description: Aggregate plant with a portable finlay screen, diesel-fired engine, paved and 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:	F001
Company Equipment ID:	Portable Roadways
Superseded Permit Number:	06-08336
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	F002
Company Equipment ID:	Portable Storage Piles
Superseded Permit Number:	06-08336
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P901
Company Equipment ID:	Portable Screen Plant
Superseded Permit Number:	06-08336
General Permit Category and Type:	Not Applicable



Final Permit-to-Install and Operate
S & S Aggregates Inc. Portable Findlay Scr #15
Permit Number: P0090088
Facility ID: 0660010267
Effective Date: 8/12/2015

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. For facilities that are permitted as synthetic minor sources, the fee schedule is adjusted annually for inflation. 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 of this permit 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 [DO/LAA] 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 submitting 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 emission 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.

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.



Final Permit-to-Install and Operate
S & S Aggregates Inc. Portable Findlay Scr #15
Permit Number: P0090088
Facility ID: 0660010267
Effective Date: 8/12/2015

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.
2. The Ohio EPA has determined that this facility may be subject to the requirements of the area source MACT/GACT rule (40 CFR Part 63, Subpart ZZZZ) that the Ohio EPA does not have the delegated authority to implement. Although Ohio EPA has determined that an area source MACT (also known as the GACT) may apply, at this time Ohio EPA does not have the authority to enforce this standard. Instead, U.S. EPA has the authority to enforce this standard. Please be advised that all requirements associated with these rules are in effect and are enforceable by U.S. EPA. For more information on the area source rules, please refer to the following U.S. EPA website:
<http://www.epa.gov/ttn/atw/area/arearules.html>.



Final Permit-to-Install and Operate
S & S Aggregates Inc. Portable Findlay Scr #15
Permit Number: P0090088
Facility ID: 0660010267
Effective Date: 8/12/2015

C. Emissions Unit Terms and Conditions



1. F001, Portable Roadways

Operations, Property and/or Equipment Description:

Paved (max VMT of 44,148) and unpaved (max VMT of 44,148) roadways and parking areas (First operating permit, supersedes PTI 06-08336, issued 6/12/2008)

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) (as established in PTI 06-08336, issued 6/12/2008)	Fugitive Particulate Emissions (PE) shall not exceed 30.96 tons per year (TPY). There shall be no visible PE except for 1 minute during any 60-minute period on any paved roadways and parking areas. There shall be no visible PE except for 3 minutes during any 60-minute period on any unpaved roadways and parking areas. Best available control measures that are sufficient to minimize or eliminate visible PE of fugitive dust. See Sections b)(2)a. through b)(2)f.
b.	OAC rule 3745-17-07(B)(4)	The emission limitation specified by this



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
	(Applicable only if this emissions unit is located in an area identified in Appendix A of OAC rule 3745-17-08).	rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
c.	OAC rule 3745-17-08(B) (Applicable only if this emissions unit is located in an area identified in Appendix A of OAC rule 3745-17-08)	The emission limitation specified by this rule is equivalent to the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

(2) Additional Terms and Conditions

- a. The permittee shall employ best available control measures on all paved and unpaved roadways for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's application, the permittee has committed to treat the paved and unpaved roadways and parking areas by watering at sufficient treatment frequencies to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- b. 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 paved and unpaved roadways that are covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements. Implementation of any control measure may be suspended if unsafe or hazardous driving conditions would be created by its use.
- c. 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.
- d. Any unpaved roadways, which during the term of this permit is paved or takes on the characteristics of a paved surface due to the application of certain types of dust suppressants, may be controlled with the control measure(s) specified for paved surfaces. Any unpaved roadway that takes on the characteristics of a paved surface due to the application of dust suppressants shall remain subject to the visible emission limitation for unpaved roadways. Any unpaved area that is paved shall be subject to the visible emission limitation of one minute during any 60- minute period.
- 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. The permittee shall periodically apply asphalt, oil (excluding any used oil as defined in paragraph (A)(12) of rule 3745-279-01 of the Administrative Code), water, or other suitable dust suppression chemicals on dirt or gravel roads and parking lots, and other surfaces which can cause emissions of fugitive dust.

c) Operational Restrictions

(1) None.

d) Monitoring and/or Recordkeeping Requirements

(1) The permittee shall perform inspections of each of the roadway segments and parking areas in accordance with the following frequencies:

<u>Paved and unpaved roadways</u> <u>inspection frequency</u>	<u>Minimum</u> <u>and parking areas</u>
All roads and parking areas	Daily

(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:

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

The information required in d)(3)d. shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter and shall be kept separately for the paved roadways and parking areas; and the unpaved roadways and parking areas.

e) Reporting Requirements

(1) All applications, notifications or reports required by terms and conditions in this permit to be submitted or "reported in writing" are to be submitted to Ohio EPA through the Ohio EPA's eBusiness Center: Air Services web service ("Air Services"). Ohio EPA will accept

hard copy submittals on an as-needed basis if the permittee cannot submit the required documents through the Ohio EPA eBusiness Center. In the event of an alternative hard copy submission in lieu of the eBusiness Center, the post-marked date or the date the document is delivered in person will be recognized as the date submitted. Electronic submission of applications, notifications, or reports required to be submitted to Ohio EPA fulfills the requirement to submit the required information to the Director, the District Office or Local Air Agency, and/or any other individual or organization specifically identified as an additional recipient identified in this permit unless otherwise specified. Consistent with OAC rule 3745-15-03, the required application, notification or report is considered to be "submitted" on the date the submission is successful using a valid electronic signature. Signature by the signatory authority may be represented as provided through procedures established in Air Services.

- (2) The permittee shall submit an annual Permit Evaluation Report (PER) to the Ohio EPA. The PER must be submitted 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 and/or Control Requirements specified in section b) of these terms and conditions shall be determined in accordance with the following methods:

a. Emissions Limitation:

Fugitive PE shall not exceed 30.96 TPY.

Applicable Compliance Method:

Compliance shall be determined based on the emission factor calculation for unpaved (AP-42 section 13.2.2(11/06)) and paved (AP-42 section 13.2.1, (11/06)) roadways and parking areas. Initial compliance has been determined utilizing inputs representing current conditions as follows:

Paved Roads and Parking Areas:

$$EF = ((k (sL/2)^{0.91} * (W)^{1.02})) * (1 - P / (4 * 365))$$

Where:

EF = size-specific emission factor (lb/VMT)

k = particle size multiplier for paved road (lb/VMT) = 0.011

sL = surface silt loading (g/m²) = 120

W = mean vehicle weight (tons) = 25

P = number of rain days per year >0.01 in. = 130



Therefore, EF = 20.84 lb/VMT

Maximum travel = 44,148 VMT/year

$(44,148 \text{ VMT/year})(20.84 \text{ lb/VMT})(1 \text{ ton}/2,000 \text{ lbs}) = 459.97 \text{ TPY uncontrolled PE}$

Assume 95% control efficiency for roadway watering (Cleveland SIP Study)

$(459.97 \text{ TPY})(0.05) = 23.00 \text{ TPY controlled PE}$

Unpaved Roads and Parking Areas:

$$EF = ((k*(s/12)^a*(W/3)^b)((365-p)/365)$$

Where:

EF = size-specific emission factor (lb/VMT)

k = constant (lb/VMT) = 4.9

a = constant (dimensionless) = 0.7

b = constant (dimensionless) = 0.45

s = surface material silt content (%) = 10

W = average vehicle weight (tons) = 25

p = days per year with 0.01 inches of precipitation = 130

Therefore, EF = 7.21 Lb/VMT

Maximum travel = 44,148 VMT/year

$(44,148 \text{ VMT/year})(7.21 \text{ lb/VMT})(1 \text{ ton}/2,000 \text{ lbs}) = 159.15 \text{ TPY}$

Assume 95 % control efficiency for roadway watering (Cleveland SIP Study)

$(159.15 \text{ tons})*(0.05) = 7.96 \text{ TPY}$

Total Roadway and Parking Emissions Summary:

Paved Roadway and Parking Emissions = 23.00 TPY

Unpaved Roadway and Parking Emissions = 7.96 TPY

Total = 30.96 TPY

b. Emissions Limitation:

There shall be no visible PE on paved roadways except for 1 minute during any 60-minute period on any paved roadways and parking areas.

Applicable Compliance Method

If required, visible emissions of fugitive dust shall be determined according to USEPA Method 22, with the as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources").

c. Emissions Limitation:

There shall be no visible PE except for 3 minutes during any 60-minute period on any unpaved roadways and parking areas.

Applicable Compliance Method

If required, visible emissions of fugitive dust shall be determined according to USEPA Method 22, with the as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources").

g) Miscellaneous Requirements

- (1) At the discretion and following the approval of the director, the permittee may relocate the portable source within the State of Ohio without first obtaining a permit to install (PTI) or permit to install and operate (PTIO) providing the appropriate exemption requirements have been met. The director may issue a "Notice of Site Approval" for either of the following situations: the permittee notifies the director a minimum of 30 days prior to relocating pursuant to OAC rule 3745-31-03(A)(1)(p)(i); or the permittee identifies pre-disclosed location(s) that meet the criteria found in OAC rule 3745-31-05(H).
- (2) Pursuant to OAC rules 3745-31-03(A)(1)(p)(i), 3745-31-03(A)(1)(p)(ii), and 3745-31-05(H), the following criteria must be met for all portable facilities seeking approval for relocation:
 - a. The portable source must possess an issued permit to install (PTI) or permit to install and operate (PTIO) and demonstrate continuing compliance with any applicable best available technology determination and state and/or federal air pollution rule or law; and,
 - b. The portable source is operating pursuant to a currently effective PTI, PTIO and/or any applicable permit to operate (PTO) and demonstrates continuing compliance with the requirements of the permit(s).
- (3) In order to relocate a portable source in accordance with OAC rule 3745-31-03(A)(1)(p)(i) (i.e. the 30-day option), the following additional criteria must be met:

- a. The permittee has provided proper notice of intent to relocate the portable source to the permitting District Office/Local air agency a minimum of thirty days prior to the scheduled relocation;
- b. The permitting District Office/Local air agency and the District Office/Local air agency having jurisdiction over the new site have determined that the emissions would not cause a nuisance in violation of OAC rule 3745-15-07, and that the relocation of the portable source would not result in the installation of a major stationary source or a modification of an existing major stationary source at the new site; and
- c. The director has issued a "Notice of Site Approval", stating that the proposed site is acceptable under OAC rule 3745-15-07, and that the relocation will not result in the installation or the modification of a major stationary source.

Using the 30-day option, the portable source may only be relocated upon receipt of the "Notice of Site Approval".

- (4) In order to relocate a portable source in accordance with OAC rules 3745-31-03(A)(1)(p)(ii) and 3745-31-05(H) (i.e. the 15-day option), the following additional criteria must be met:

- a. The portable source owner has identified the proposed site(s) to the permitting District Office/Local air agency;
- b. The owner of the proposed site(s) (if not the permittee) has provided the portable source owner with approval, or an equivalent declaration, that it is acceptable to move the portable source to the proposed site(s);
- c. The permitting District Office/Local air agency and the District Office/Local air agency having jurisdiction over the new site have determined that the portable source will have an acceptable environmental impact at the proposed site(s);
- d. A public notice, consistent with OAC Chapter 3745-47, has been published in the county where the proposed site(s) is/are located;
- e. The permittee has provided the Ohio EPA with a minimum of a 15-day written notice of the relocation.

Using the 15-day option, the portable source may only be relocated upon receipt of the "Notice of Site Approval", and following submittal of the 15-day written notice of the relocation. Any site approvals issued pursuant to OAC rule 3745-31-05(H) shall be valid for no longer than 3 years and are subject to renewal. Also, pursuant to OAC rule 3745-31-07(D)(2), the director may modify the site approval to add or delete certain portable sources or add or delete certain terms and conditions as appropriate.

- (5) Failure to submit said notification or failure to receive Ohio EPA approval prior to relocation of the portable source may result in fines and civil penalties.

- (6) When a portable source is co-located at a stationary source, or is co-located with multiple portable sources, potential emissions from the portable source may be required to be combined for facility potential to emit calculations for Title V and PSD applicability. If the relocation of the portable source would result in the installation of a major source or the modification of a major source, as defined in OAC rule 3745-31-01 (LLL) and (JJJ), the permittee shall submit an application and obtain a PTI for the new location prior to moving the portable source. Relocation of any portable source that results in the creation of a major source, as defined in OAC rule 3745- 77-01, must also meet all applicable requirements under the Title V program contained in OAC Chapter 3745-77, which may include the requirement to apply for a Title V permit.



2. F002, Portable Storage Piles

Operations, Property and/or Equipment Description:

Load-in, load-out and wind erosion of storage piles (4.08 acres) of crushed aggregates (First operating permit, supersedes PTI 06-08336, issued 6/12/2008)

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), as effective 11/30/01	Fugitive Particulate Emissions (PE) shall not exceed 3.8 tons per year (TPY). There shall be no visible PE except for 1 minute during any 60-minute period. Best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust. See b)(2)a. and b)(2)c. through b)(2)h.
b.	OAC rule 3745-31-05 (C), as effective 12/01/06	See b(2)b. below.
c.	OAC rule 3745-17-07(B)(6) (Applicable only if this emissions unit is located in an area identified in Appendix A of OAC rule 3745-17-08)	This emission limitation is less stringent than the limitation listed under OAC rule 3745-31-05.
d.	OAC rule 3745-17-08(B)	Reasonably available control measures



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
	(Applicable only if this emissions unit is located in an area identified in Appendix A of OAC rule 3745-17-08)	that is sufficient to minimize or eliminate visible PE of fugitive dust. See b)(2)c. – b)(2) h.

(2) Additional Terms and Conditions

a. The permittee has satisfied the Best Available Technology (BAT) requirements pursuant to OAC rule 3745-31-05 (A)(3), as effective November 30, 2001, in this permit. On December 1, 2006, paragraph (A)(3) of OAC rule 3745-31-05 was revised to conform to ORC changes effective August 3, 2006 (S.B. 265 changes), such that BAT is no longer required by State regulation for NAAQS pollutant emissions less than ten tons per year. However, that rule revision has not yet been approved by U.S. EPA as a revision to Ohio’s State Implementation Plan (SIP). Therefore, until the SIP revision has not yet been approved by U.S. EPA as a revision to Ohio’s State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the U.S. EPA approves the revision to OAC rule 3745-31-05, the requirement to satisfy BAT still exists as part of the federally-approved SIP for Ohio. Once U.S. EPA approves the December 1, 2006 version of OAC rule 3745-31-05, then these emissions limits/control measures no longer applies.

b. This rule paragraph applies once U.S. EPA approves the December 1, 2006 version of OAC rule 3745-31-05 as part of the SIP.

FEPTIO P0090088 for this air contaminant source takes into account the following voluntary restriction (including the use of any applicable air pollution control equipment) as proposed by the permittee for the purpose of avoiding Best Available Technology (BAT) requirements under OAC rule 3745-31-05 (A)(3):

- i. Fugitive PE shall not exceed 3.8 TPY;
- ii. In accordance with the permittee’s permit application, the permittee has committed to control fugitive emissions by minimizing the drop height of the front end loader bucket to the extent possible, in order to minimize or eliminate visible emissions of fugitive dust from the loading area, and control fugitive emissions by maintaining low pile heights, low drop heights, and by utilizing water sprinkling systems. These controls shall have a 90% control efficiency for the storage piles; and
- iii. There shall be no visible PE except for 1 minute during any 60-minute period.

c. The storage piles that are covered by this permit and subject to the requirements of OAC rules 3745-31-05 and 3745-17-08(B) when located in an area identified in Appendix A of OAC rule 3745-17-08 are listed below:

d. ALLThe permittee shall employ best/reasonably available control measures on all load-in and load-out operations associated with the storage piles for the purpose



of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's application, the permittee has committed to control fugitive emissions by maintaining low pile heights, low drop heights, and by utilizing water sprinkling systems at sufficient treatment frequencies to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

- e. The 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.
- f. The permittee shall employ best/reasonably available control measures for wind erosion from the surfaces of all storage piles for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the application, the permittee has committed to maintaining low pile heights, low drop heights, and to watering storage piles to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- g. 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.
- h. 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 rules 3745-31-05 and 3745-17-08(B).

c) Operational Restrictions

- (1) None.

d) Monitoring and/or Recordkeeping Requirements

- (1) 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	Daily

- (2) 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	Daily

- (3) The permittee shall perform inspections of the wind erosion from pile surfaces associated with each storage pile in accordance with the following frequencies:

<u>Storage pile identification</u>	<u>Minimum wind erosion inspection frequency</u>
All	Daily

- (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) All applications, notifications or reports required by terms and conditions in this permit to be submitted or "reported in writing" are to be submitted to Ohio EPA through the Ohio EPA's eBusiness Center: Air Services web service ("Air Services"). Ohio EPA will accept hard copy submittals on an as-needed basis if the permittee cannot submit the required documents through the Ohio EPA eBusiness Center. In the event of an alternative hard copy submission in lieu of the eBusiness Center, the post-marked date or the date the



document is delivered in person will be recognized as the date submitted. Electronic submission of applications, notifications, or reports required to be submitted to Ohio EPA fulfills the requirement to submit the required information to the Director, the District Office or Local Air Agency, and/or any other individual or organization specifically identified as an additional recipient identified in this permit unless otherwise specified. Consistent with OAC rule 3745-15-03, the required application, notification or report is considered to be "submitted" on the date the submission is successful using a valid electronic signature. Signature by the signatory authority may be represented as provided through procedures established in Air Services.

- (2) The permittee shall submit an annual Permit Evaluation Report (PER) to the Ohio EPA. The PER must be submitted 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 and/or Control Requirements specified in section b) of these terms and conditions shall be determined in accordance with the following methods:

- a. Emissions Limitation:

There shall be no visible PE except for 1 minute during any 60-minute period.

Applicable Compliance Method:

If required, visible emissions of fugitive dust shall be determined according to USEPA Method 22, with the modifications found in OAC rule 3745-17-03(B)(4).

- b. Emissions Limitation:

Fugitive PE shall not exceed 3.8 TPY

Applicable Compliance Method:

Load in/Load out:

$$E = k (0.0032)[(U/5)^{1.3}/(M/2)^{1.4}]$$

Where:

- E = emission factor expressed in pounds (lbs) / ton
- k = particle size multiplier for TSP (dimensionless) = 0.74
- U = mean wind speed expressed in miles per hour (MPH) = 13
- M = material moisture content (%) = 1.0

Therefore, E = 0.021642 lb/ton

Throughput = 1,500,000 tons/year



Maximum annual load-out throughput= 1,500,000 tons/year

$$[(1,500,000 \text{ tons/yr})(0.021642 \text{ lb/ton}) + (1,500,000 \text{ tons/yr})(0.021642 \text{ lb/ton})] / 2000 \text{ lb/ton}$$

$$= 32.46238 \text{ TPY}$$

Assume 90% control for precautionary measures (RACM)

$$(32.46238 \text{ TPY})(0.10) = 3.25$$

Wind Erosion:

$$E = 1.7(s/1.5)((365-p)/235)(f/15)$$

Where:

E = emission factor expressed in pounds (lbs) /day/acre

s = silt content of road surface material (%) = 10 %

p = number of rain days per year > 0.1 in = 130

f = percentage of time wind speed exceeds 12 mph (%) = 10

A = total surface area of storage piles (acres) = 4.08

Therefore, E = 7.556 lbs/day/acre

$$(7.556 \text{ lbs/day/acre})(365 \text{ days/yr})(4.08 \text{ acres})/2,000 \text{ lbs/ton} = 7.556 \text{ TPY uncontrolled PE}$$

Assume 90% control for precautionary operating practices

$$(7.556 \text{ tons/year})(0.10) = 0.5626 \text{ TPY controlled PE}$$

$$3.25 \text{ TPY} + 0.5626 \text{ TPY} = 3.8 \text{ TPY controlled PE}$$

g) Miscellaneous Requirements

- (1) At the discretion and following the approval of the director, the permittee may relocate the portable source within the State of Ohio without first obtaining a permit to install (PTI) or permit to install and operate (PTIO) providing the appropriate exemption requirements have been met. The director may issue a "Notice of Site Approval" for either of the following situations: the permittee notifies the director a minimum of 30 days prior to relocating pursuant to OAC rule 3745-31-03(A)(1)(p)(i); or the permittee identifies pre-disclosed location(s) that meet the criteria found in OAC rule 3745-31-05(H).
- (2) Pursuant to OAC rules 3745-31-03(A)(1)(p)(i), 3745-31-03(A)(1)(p)(ii), and 3745-31-05(H), the following criteria must be met for all portable facilities seeking approval for relocation:
 - a. The portable source must possess an issued permit to install (PTI) or permit to install and operate (PTIO) and demonstrate continuing compliance with any

applicable best available technology determination and state and/or federal air pollution rule or law; and,

- b. The portable source is operating pursuant to a currently effective PTI, PTIO and/or any applicable permit to operate (PTO) and demonstrates continuing compliance with the requirements of the permit(s).
- (3) In order to relocate a portable source in accordance with OAC rule 3745-31-03(A)(1)(p)(i) (i.e. the 30-day option), the following additional criteria must be met:
- a. The permittee has provided proper notice of intent to relocate the portable source to the permitting District Office/Local air agency a minimum of thirty days prior to the scheduled relocation;
 - b. The permitting District Office/Local air agency and the District Office/Local air agency having jurisdiction over the new site have determined that the emissions would not cause a nuisance in violation of OAC rule 3745-15-07, and that the relocation of the portable source would not result in the installation of a major stationary source or a modification of an existing major stationary source at the new site; and
 - c. The director has issued a "Notice of Site Approval", stating that the proposed site is acceptable under OAC rule 3745-15-07, and that the relocation will not result in the installation or the modification of a major stationary source.

Using the 30-day option, the portable source may only be relocated upon receipt of the "Notice of Site Approval".

- (4) In order to relocate a portable source in accordance with OAC rules 3745-31-03(A)(1)(p)(ii) and 3745-31-05(H) (i.e. the 15-day option), the following additional criteria must be met:
- a. The portable source owner has identified the proposed site(s) to the permitting District Office/Local air agency;
 - b. The owner of the proposed site(s) (if not the permittee) has provided the portable source owner with approval, or an equivalent declaration, that it is acceptable to move the portable source to the proposed site(s);
 - c. The permitting District Office/Local air agency and the District Office/Local air agency having jurisdiction over the new site have determined that the portable source will have an acceptable environmental impact at the proposed site(s);
 - d. A public notice, consistent with OAC Chapter 3745-47, has been published in the county where the proposed site(s) is/are located;
 - e. The permittee has provided the Ohio EPA with a minimum of a 15-day written notice of the relocation.

Using the 15-day option, the portable source may only be relocated upon receipt of the "Notice of Site Approval", and following submittal of the 15-day written



notice of the relocation. Any site approvals issued pursuant to OAC rule 3745-31-05(H) shall be valid for no longer than 3 years and are subject to renewal. Also, pursuant to OAC rule 3745-31-07(D)(2), the director may modify the site approval to add or delete certain portable sources or add or delete certain terms and conditions as appropriate.

- (5) Failure to submit said notification or failure to receive Ohio EPA approval prior to relocation of the portable source may result in fines and civil penalties.
- (6) When a portable source is co-located at a stationary source, or is co-located with multiple portable sources, potential emissions from the portable source may be required to be combined for facility potential to emit calculations for Title V and PSD applicability. If the relocation of the portable source would result in the installation of a major source or the modification of a major source, as defined in OAC rule 3745-31-01 (LLL) and (JJJ), the permittee shall submit an application and obtain a PTI for the new location prior to moving the portable source. Relocation of any portable source that results in the creation of a major source, as defined in OAC rule 3745- 77-01, must also meet all applicable requirements under the Title V program contained in OAC Chapter 3745-77, which may include the requirement to apply for a Title V permit.



3. P901, Portable Screen Plant

Operations, Property and/or Equipment Description:

Portable 65 HP Diesel-Fired generator, with a limit of 3,000 operating hours per year, and portable 500 TPH Finlay Screen 4, with a 1,500,000 tons per year throughput consisting of 1-primary screening, 2 conveyors, 1 front-end loader and 3 load-unload transfer points. (First operating permit, supersedes PTI 06-08336, issued 6/12/2008).

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. b)(1)e., c)(2), d)(4), e)(4), and f)(1)a., c., e., g., i., and k.

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
	500 THP Finlay Screener	
a.	OAC rule 3745-31-05(A), as effective 11/30/2001	Best Available Control measures to minimize and/or eliminate visible emissions. See b)(2)a. and b)(2)d. through b)(2)h. The requirement of this rule also includes compliance with the requirements of OAC rule 3745-17-07 (B)(1), OAC rule 3745-17-08 (B), and OAC rule 3745-31-05 (D).
b.	OAC rule 3745-31-05 (C), as effective 12/01/2006.	See b)(2)c.
c.	OAC rule 3745-17-07(B)(1)	Visible emissions of fugitive dust shall not exceed 20 percent opacity as a



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
	(Applicable only if this unit is located in an area identified in Appendix A of OAC rule 3745-17-08)	three-minute average.
d.	OAC rule 3745-17-08(B) (Applicable only if this unit is located in an area identified in Appendix A of OAC rule 3745-17-08)	Reasonably available control measures that are sufficient to minimize or eliminate visible PE of fugitive dust See b)(2)d. through (2)h. This emission limitation is equivalent to than the limitation listed under OAC rule 3745-31-05(A)(3), until such time as U.S. EPA approves the December 1, 2006, version of OAC rule 3745-31-05 as part of the State Implementation Plan.
e.	OAC rule 3745-31-05 (D) (Synthetic minor to avoid Title V or PSD requirements when co-locating with similar sources)	Fugitive Particulate Emissions (PEs) shall not exceed 8.82 tons per year (TPY) as a rolling, 12-month summation.
65 HP Diesel Generator		
f.	OAC rule 3745-31-05(D) (As established in PTI 06-08336 issued 6/12/2008) (Synthetic Minor to avoid triggering Title V or PSD requirements when co-locating with similar sources.)	Emissions shall not exceed the following, as rolling, 12-month summations: PE from the stack shall not exceed and 0.2 tons per rolling 12-month period; Nitrous Oxide (NO _x) emissions shall not exceed 3.3 tons per rolling 12-month period; Sulfur Dioxide (SO ₂) emissions shall not exceed 0.2 ton per rolling 12-month period; Carbon Monoxide (CO) emissions shall not exceed 0.7 ton per rolling 12-month period; and Volatile Organic Compounds (VOC) shall not exceed 0.3 ton per rolling 12-month period.
g.	OAC rule 3745-31-05 (A)(3), as effective 11/30/2001 (as established in PTI 06-08336 issued 6/12/2008)	PE from the stack shall not exceed 0.16 lb/hr; NO _x emissions shall not exceed 2.21 lbs/hr;



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		SO ₂ emissions shall not exceed 0.15lb/hr; CO emissions shall not exceed 0.48 lb/hr; and VOC shall not exceed 0.18 lb/hr. See b)(2)a.
h.	OAC rule 345-31-05 (C), as effective 12/01/2006	See b)(2)c.
i.	OAC rule 3745-31-05 (A)(3)(b), as effective 12/01/2006.	See b)(2)b.
j.	OAC rule 3745-17-07 (B)(5)(a)	PE shall not exceed 0.310 lb/mmBtu actual heat input. This emission limitation is less stringent than the limitation listed under OAC rule 3745-31-05(A)(3), until such time as U.S. EPA approves the December 1, 2006, version of OAC rule 3745-31-05 as part of the State Implementation Plan.
k.	OAC rule 3745-17-07(A)(1)	Visible PE from any stack shall not exceed 20% opacity as a six-minute average, except as provided by rule.

(2) Additional Terms and Conditions

- a. The permittee has satisfied the Best Available Technology (BAT) requirements pursuant to OAC rule 3745-31-05(A)(3), as effective November 30,2001, in this permit. On December 1, 2006, paragraph (A)(3) of OAC rule 3745-31-05 was revised to conform to ORC changes effective August 3,2006 (S.B. 265 changes), such that BAT is no longer required by State regulation for NAAQS pollutant emissions less than ten tons per year. However, that rule revision has not yet been approved by U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the U.S. EPA approves the revision to OAC rule 3745-31-05, the requirement to satisfy BAT still exists as part of the federally-approved SIP for Ohio. Once U.S. EPA approves the December 1, 2006 version of OAC rule 3745-31-05, and then these emission limits/control measures no longer apply.
- b. This rule paragraph applies once U.S. EPA approves the December 1, 2006 version of OAC rule 3745-31-05 as part of the SIP.

The Best Available Technology (BAT) requirements under OAC rule 3745-31-05(A)(3) do not apply to the CO, VOC, SO₂, and NO_x emissions from this air



contaminant source since the uncontrolled potential to emit for CO, VOC, SO₂, and NO_x is less than 10 tons/year.

- c. This rule paragraph applies once U.S. EPA approves the December 1, 2006 version of OAC rule 3745-31-05 as part of the SIP.

FEPTIO P009008 for this air contaminant source takes into account the following voluntary restrictions (including applicable control measures) as proposed by the permittee for the purpose of avoiding Best Available Technology (BAT) requirements under OAC rule 3745-31-05(A)(3):

- i. Operational restriction of 3,000 hours of operation per year;
- ii. Operational throughput restriction of 1,500,000 tons per year;
- iii. The permittee has committed to utilizing wet suppression on the material handling operations;
- iv. Fugitive PE shall not exceed 8.82 TPY; and
- v. PE (stack) shall not exceed 0.2 TPY.

- d. The material handling operations that are covered by this permit and subject to the above-mentioned requirements are listed below:

Transfer Points

Load-in to hopper

Hopper to screen

Screen to conveyors (2)

Conveyor to load-out

Equipment

Hopper

Screen

Conveyors/Chutes (2)

- e. The permittee shall employ best reasonably available control measures on all material handling operations listed above 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 watering of all the above-mentioned material handling operations if the inherent moisture content of the aggregate material is insufficient to ensure compliance with the above-mentioned applicable requirements. Nothing in this paragraph shall



prohibit the permittee from employing other control measures to ensure compliance.

- f. For each material handling operation that is not adequately enclosed, the above-identified control measures shall be implemented if the permittee determines, as a result of 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 handling operations until further observation confirms that use of the control measure(s) is unnecessary.
- g. The permittee shall cover, at all times, open bodied vehicles transporting materials off site which are likely to become air borne during transport.
- h. 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) and OAC rule 3745-17-08 (B).

c) Operational Restrictions

- (1) The permittee shall only burn low sulfur No. 2 diesel fuel oil, containing no greater than 0.5% sulfur by weight, in this emissions unit.
- (2) The maximum operating hours for emissions unit P901 shall not exceed 3,000 hours of operation as a rolling, 12-month summation and the maximum throughput for emissions unit P901 shall not exceed 1,500,000 tons per year as a rolling, 12-month summation. This emissions unit has been in operation for more than 12 months and, as such, the permittee has existing records to generate the rolling,12- month summation of the operating hours, upon issuance of this permit.

d) Monitoring and/or Recordkeeping Requirements

- (1) Except as otherwise provided in this section, the permittee shall perform inspections for material handling operations that are not adequately enclosed in accordance with the following minimum frequencies:

<u>Material handling operation(s)</u>	<u>Minimum inspection frequency</u>
All	Daily

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

For materials handling operations 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 measure was implemented.

The information in (2)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.

- (3) For each day during which the permittee burns a fuel other than No. 2 fuel oil, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
- (4) The permittee shall maintain monthly records of the following information:
 - a. The number of operating hours for each month;
 - b. The permittee shall maintain monthly records of the aggregate throughput, in tons, for each month; and
 - c. The rolling, 12-month summation of the monthly hours of operation.

e) Reporting Requirements

- (1) All applications, notifications or reports required by terms and conditions in this permit to be submitted or "reported in writing" are to be submitted to Ohio EPA through the Ohio EPA's eBusiness Center: Air Services web service ("Air Services"). Ohio EPA will accept hard copy submittals on an as-needed basis if the permittee cannot submit the required documents through the Ohio EPA eBusiness Center. In the event of an alternative hard copy submission in lieu of the eBusiness Center, the post-marked date or the date the document is delivered in person will be recognized as the date submitted. Electronic submission of applications, notifications, or reports required to be submitted to Ohio EPA fulfills the requirement to submit the required information to the Director, the District Office or Local Air Agency, and/or any other individual or organization specifically identified as an additional recipient identified in this permit unless otherwise specified. Consistent with OAC rule 3745-15-03, the required application, notification or report is considered to be "submitted" on the date the submission is successful using a valid electronic signature. Signature by the signatory authority may be represented as provided through procedures established in Air Services.
- (2) The permittee shall submit an annual Permit Evaluation Report (PER) to the Ohio EPA. The PER must be submitted 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.
- (3) The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs



- (4) The permittee shall submit quarterly deviation (excursion) reports that identify:
- a. all deviations (excursions) of the following emission limitations, operational restrictions and/or control device operating parameter limitations that restrict the potential to emit (PTE) of any regulated air pollutant and have been detected by the monitoring, record keeping and/or testing requirements in this permit:
 - i. All rolling, 12-month emissions limitations as established per OAC rule 3745-31-05(D) of this permit;
 - ii. The maximum operating hours for emissions unit P901 shall not exceed 3,000 hours of operation as a rolling, 12-month summation; and
 - iii. The maximum throughput for emissions unit P901 shall not exceed 1,500,000 tons per year as a rolling, 12-month summation.
 - b. any corrective actions that were taken to remedy the deviations (excursions) or prevent future deviations (excursions); and
 - c. the magnitude and duration of each deviation (excursion).

If no deviations (excursions) occurred during a calendar quarter, the permittee shall submit a report that states that no deviations (excursions) occurred during the quarter.

The quarterly reports shall be submitted each year by January 31 (covering October to December), April 30 (covering January to March), July 31 (covering April to June), and October 31 (covering July to September), unless an alternative schedule has been established and approved by the Director (the appropriate District Office or local air agency).

f) Testing Requirements

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

- a. Emissions Limitation:

Fugitive PE shall not exceed 8.82 tons/yr as a rolling, 12-month summation.

Applicable Compliance Method:

Compliance with the annual emission limitation shall be demonstrated by the following calculations based on the controlled emission factors in AP-42 sections 13.2.4 (11/06) and 11.19.2 (8/04); and the maximum annual throughput of 1,500,000 TPY (Based on 3,000 hours of operation restriction).

Transfer Points and Screen:

$$PE = [(\# \text{ transfer points})(\text{transfer points EF})(\text{Max Annual Total})] + [(\text{Screening EF})(\text{Max Annual Tons})]/2000 \text{ lbs/ton}$$



$$PE = \frac{[(3)(0.003 \text{ lbs/ton})(1,500,000 \text{ TPY})] + [(0.025 \text{ lbs/tons})(1,500,000 \text{ TPY})]}{2000 \text{ lbs/ton}}$$

=25.5 TPY uncontrolled PE

Assume 70% control for watering (RACM Table 2.18-2)

$$(25.5 \text{ TPY}) (0.30) = 7.65 \text{ TPY controlled PE}$$

Load-In to Screen:

$$EF = k (0.0032) \left[\left(\frac{U}{5} \right)^{1.3} / \left(\frac{M}{2} \right)^{1.4} \right]$$

Where:

EF = emission factor expressed in pounds per ton (lbs/ton)

k = particle size multiplier for TSP (dimensionless) = 0.74

U = mean wind speed expressed in miles per hour (MPH) = 13

M = material moisture content (%) = 4 Therefore, EF = 0.00311 lbs/ton

Maximum annual load-in throughput = 1,500,000 TPY

$$PE = \frac{(0.00311 \text{ lb/ton})(1,500,000 \text{ TPY})}{2000 \text{ lbs/ton}}$$

= 2.33 TPY uncontrolled PE

Assume 50% control for watering (RACM Tables 2.1.3-3)

$$(2.33 \text{ TPY})(0.50) = 1.17 \text{ controlled PE}$$

Total Aggregate Handling = Transfer Points and Screens + Load-In to Screen

$$= 7.65 \text{ TPY} + 1.17 \text{ TPY} = 8.82 \text{ TPY controlled PE}$$

b. Emissions Limitation:

Emissions of NO_x shall not exceed 2.21 lb/hr.

Applicable Compliance Method:

The lb/mmBtu NO_x emission limitation was established by multiplying the NO_x emissions factor from AP-42, Table 3.3-1, (10/96) by the maximum rated capacity of the emissions unit.

If required, nitrogen oxides emissions shall be determined according to test Methods 1 - 4, and 7 as set forth in the "Appendix on Test Methods" in 40 CFR, Part 60 "Standards of Performance for New Stationary Sources". Alternative U.S. EPA-approved test methods may be used with prior approval from Ohio EPA, Southeast District Office.



c. Emissions Limitation:

Emissions of NO_x shall not exceed 3.3 TPY as a rolling 12-month summation.

Applicable Compliance Method:

Compliance with the annual NO_x emission limitation may be demonstrated by multiplying the hourly NO_x emission factor of 4.41lb/mmBtu of actual heat input by the maximum heat input of P901 (0.5 mmBtu/hr) by the maximum annual hours of operation (3,000 hours) operated per twelve month rolling period, as recorded in d)(5)b., and dividing by 2,000 lbs/ton.

$$(2.21 \text{ lb/hr})(3,000 \text{ hr/yr})/(2,000 \text{ lb/ton}) = 3.3 \text{ TPY}$$

d. Emissions Limitation:

Emissions of SO₂ shall not exceed 0.15 lb/hr.

Applicable Compliance Method:

The hourly SO₂ emission limitation was established by multiplying the SO₂ emissions factor from AP-42, Table 3.3-1, 10/96 by the maximum rated capacity of the emissions unit.

If required, sulfur dioxide emissions shall be determined according to test Methods 1 - 4, and 6 as set forth in the "Appendix on Test Methods" in 40 CFR, Part 60 "Standards of Performance for New Stationary Sources". Alternative U.S. EPA-approved test methods may be used with prior approval from Ohio EPA, Southeast District Office.

e. Emissions Limitation:

Emissions of SO₂ shall not exceed 0.2 TPY as a rolling, 12-month summation.

Applicable Compliance Method:

Compliance with the annual SO₂ emission limitation may be demonstrated by multiplying the hourly SO₂ emission factor of 0.29 lb/mmBtu of actual heat input by the maximum heat input of P901 (0.5 mmBtu /hr) by the maximum annual hours of operation (3,000 hours) per twelve month rolling period, and as recorded in d)(5)b., and dividing by 2,000 lbs/ton.

$$(0.145 \text{ lb/hr})(3,000 \text{ hr/yr})/(2,000 \text{ lb/ton}) = 0.2 \text{ TPY}$$

f. Emissions Limitation:

Emissions of CO shall not exceed 0.48 lb/hr.



Applicable Compliance Method:

The hourly CO emission limitation was established by multiplying the CO emissions factor from AP-42, Table 3.3-1, 10/96 by the maximum rated capacity of the emissions unit.

If required, carbon monoxide emissions shall be determined according to test Methods 1 - 4, and 10 as set forth in the "Appendix on Test Methods" in 40 CFR, Part 60 "Standards of Performance for New Stationary Sources". Alternative U.S. EPA-approved test methods may be used with prior approval from Ohio EPA, Southeast District Office.

g. Emissions Limitation:

Emissions of CO shall not exceed 0.7 TPY as a rolling, 12-month summation.

Applicable Compliance Method:

Compliance with the annual CO limitation may be demonstrated by multiplying the hourly CO emission factor of 0.95 lb/mmBtu of actual heat input by the maximum heat input of P901 (0.5 mmBtu/hr) by maximum annual hours of operation (3,000 hours) per twelve month rolling period, as recorded in d)(5)b., and dividing by 2,000 lbs/ton.

$$(0.48 \text{ lb/hr})(3,000 \text{ hr/yr})/(2,000 \text{ lb/ton}) = 0.7 \text{ TPY}$$

h. Emissions Limitation:

Emissions of VOC shall not exceed 0.18 lb/hr.

Applicable Compliance Method:

The hourly VOC emission limitation was established by multiplying the CO emissions factor from AP-42, Table 3.3-1, 10/96 by the maximum rated capacity of the emissions unit.

If required, carbon monoxide emissions shall be determined according to test Methods 1 - 4, and 10 as set forth in the "Appendix on Test Methods" in 40 CFR, Part 60 "Standards of Performance for New Stationary Sources". Alternative U.S. EPA-approved test methods may be used with prior approval from Ohio EPA, Southeast District Office.

i. Emissions Limitation:

Emissions of VOC shall not exceed 0.3 TPY as a rolling, 12-month summation.



Applicable Compliance Method:

Compliance with the annual VOC emission limitation may be demonstrated by multiplying the VOC emission factor of 0.36lb/mmBtu of actual heat input by the maximum heat input of P901 (0.5 mmBtu/hr) by the maximum annual hours number of operation (3,000 hours) per twelve month rolling period, and as recorded in d)(5)b., and dividing by 2,000 lbs/ton.

$$(0.18 \text{ lb/hr})(3,000 \text{ hr/yr})/(2,000 \text{ lb/ton}) = 0.3 \text{ TPY}$$

j. Emissions Limitation:

PE from the stack shall not exceed 0.16 lb/mmBtu.

PE shall not exceed 0.310 lb/mmBtu actual heat input.

Applicable Compliance Method:

The lb/mmBtu PE limitation was established in accordance with the emission factor of 0.310 lb/mmBtu specified in AP-42, Table 3.3-1 (10/96).

If required, particulate emissions shall be determined according to test Methods 1 - 5, as set forth in the "Appendix on Test Methods" in 40 CFR, Part 60 "Standards of Performance for New Stationary Sources". Alternative U.S. EPA-approved test methods may be used with prior approval from Ohio EPA, Southeast District Office.

k. Emissions Limitation:

PE from the stack shall not exceed 0.2 TPY as a rolling, 12-month summation.

Applicable Compliance Method:

Compliance with the annual stack PE emission limitation may be demonstrated by multiplying the PE emission factor from OAC rule 3745-17-11 (B)(5)(a) (0.31 lb/mmBtu) by the maximum heat input of P901 (0.5 mmBtu/hr), then multiplied by the maximum annual hours of operation (3,000 hours) per twelve month rolling period, as recorded in d)(5)b., and dividing by 2,000 lbs/ton.

$$(0.310 \text{ lb/mmBtu})(0.5 \text{ mmBtu/hr})(3,000 \text{ hrs})/(2,000 \text{ lbs/ton}) = 0.2 \text{ TPY}$$

l. Emissions Limitation:

Visible emissions of fugitive dust from the screener shall not exceed 20 percent opacity, as a three minute average.

Applicable Compliance Method:

If required, visible particulate emissions shall be determined according to USEPA Method 9.

m. Emissions Limitation:

Visible PE from any stack shall not exceed 20 percent opacity, as a six minute average.

Applicable Compliance Method:

If required, visible particulate emissions shall be determined according to USEPA Method 9.

g) Miscellaneous Requirements

- (1) As defined in 40 CFR Part 60 Subpart OOO (Standards of Performance for Nonmetallic Mineral Processing Plants), a nonmetallic mineral processing plant means any combination of equipment used to crush or grind any nonmetallic mineral. For the purpose of determining the applicability of Subpart OOO, the equipment included in this emissions unit is not defined as a nonmetallic mineral processing plant because it will not be used in combination with any crushing or grinding equipment. Therefore, this emissions unit is not subject to the provisions of Subpart OOO.

If this emissions unit operates in conjunction with a crusher, it shall become subject to the provisions of 40 CFR 60.670- 60.676, and the permittee shall apply for a permit modification to incorporate applicable requirements.

- (2) At the discretion and following the approval of the director, the permittee may relocate the portable source within the State of Ohio without first obtaining a permit to install (PTI) or permit to install and operate (PTIO) providing the appropriate exemption requirements have been met. The director may issue a "Notice of Site Approval" for either of the following situations: the permittee notifies the director a minimum of 30 days prior to relocating pursuant to OAC rule 3745-31-03(A)(1)(p)(i); or the permittee identifies pre-disclosed location(s) that meet the criteria found in OAC rule 3745-31-05(H).
- (3) Pursuant to OAC rules 3745-31-03(A)(1)(p)(i), 3745-31-03(A)(1)(p)(ii), and 3745-31-05(H), the following criteria must be met for all portable facilities seeking approval for relocation:
- a. The portable source must possess an issued permit to install (PTI) or permit to install and operate (PTIO) and demonstrate continuing compliance with any applicable best available technology determination and state and/or federal air pollution rule or law; and,
 - b. The portable source is operating pursuant to a currently effective PTI, PTIO and/or any applicable permit to operate (PTO) and demonstrates continuing compliance with the requirements of the permit(s).

- (4) In order to relocate a portable source in accordance with OAC rule 3745-31-03(A)(1)(p)(i) (i.e. the 30-day option), the following additional criteria must be met:
- a. The permittee has provided proper notice of intent to relocate the portable source to the permitting District Office/Local air agency a minimum of thirty days prior to the scheduled relocation;
 - b. The permitting District Office/Local air agency and the District Office/Local air agency having jurisdiction over the new site have determined that the emissions would not cause a nuisance in violation of OAC rule 3745-15-07, and that the relocation of the portable source would not result in the installation of a major stationary source or a modification of an existing major stationary source at the new site; and
 - c. The director has issued a "Notice of Site Approval", stating that the proposed site is acceptable under OAC rule 3745-15-07, and that the relocation will not result in the installation or the modification of a major stationary source.

Using the 30-day option, the portable source may only be relocated upon receipt of the "Notice of Site Approval".

- (5) In order to relocate a portable source in accordance with OAC rules 3745-31-03(A)(1)(p)(ii) and 3745-31-05(H) (i.e. the 15-day option), the following additional criteria must be met:
- a. The portable source owner has identified the proposed site(s) to the permitting District Office/Local air agency;
 - b. The owner of the proposed site(s) (if not the permittee) has provided the portable source owner with approval, or an equivalent declaration, that it is acceptable to move the portable source to the proposed site(s);
 - c. The permitting District Office/Local air agency and the District Office/Local air agency having jurisdiction over the new site have determined that the portable source will have an acceptable environmental impact at the proposed site(s);
 - d. A public notice, consistent with OAC Chapter 3745-47, has been published in the county where the proposed site(s) is/are located;
 - e. The permittee has provided the Ohio EPA with a minimum of a 15-day written notice of the relocation.

Using the 15-day option, the portable source may only be relocated upon receipt of the "Notice of Site Approval", and following submittal of the 15-day written notice of the relocation. Any site approvals issued pursuant to OAC rule 3745-31-05(H) shall be valid for no longer than 3 years and are subject to renewal. Also, pursuant to OAC rule 3745-31-07(D)(2), the director may modify the site approval to add or delete certain portable sources or add or delete certain terms and conditions as appropriate.

- (6) Failure to submit said notification or failure to receive Ohio EPA approval prior to relocation of the portable source may result in fines and civil penalties.
- (7) When a portable source is co-located at a stationary source, or is co-located with multiple portable sources, potential emissions from the portable source may be required to be combined for facility potential to emit calculations for Title V and PSD applicability. If the relocation of the portable source would result in the installation of a major source or the modification of a major source, as defined in OAC rule 3745-31-01 (LLL) and (JJJ), the permittee shall submit an application and obtain a PTI for the new location prior to moving the portable source. Relocation of any portable source that results in the creation of a major source, as defined in OAC rule 3745- 77-01, must also meet all applicable requirements under the Title V program contained in OAC Chapter 3745-77, which may include the requirement to apply for a Title V permit.