



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

12/18/2015

Chris Albaugh
 D&I Silica Mingo Junction
 7022 Rte. 6
 Sheffield, PA

Certified Mail

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

RE: FINALAIR POLLUTION PERMIT-TO-INSTALL AND OPERATE

Facility ID: 0641095006
 Permit Number: P0119804
 Permit Type: OAC Chapter 3745-31 Modification
 County: Jefferson

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-SEDO



FINAL

**Division of Air Pollution Control
Permit-to-Install and Operate
for
D&I Silica Mingo Junction**

Facility ID:	0641095006
Permit Number:	P0119804
Permit Type:	OAC Chapter 3745-31 Modification
Issued:	12/18/2015
Effective:	12/18/2015
Expiration:	11/17/2024



Division of Air Pollution Control
Permit-to-Install and Operate
for
D&I Silica Mingo Junction

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Final Permit-to-Install and Operate
D&I Silica Mingo Junction
Permit Number: P0119804
Facility ID: 0641095006
Effective Date: 12/18/2015

Authorization

Facility ID: 0641095006
Application Number(s): M0003667
Permit Number: P0119804
Permit Description: Chapter 31 modification permit for Silica Sand Transloading Facility with an increase in emissions from railcar unloading to silos due the baghouse increasing in size from 20,000-cfm to 26,180-cfm.
Permit Type: OAC Chapter 3745-31 Modification
Permit Fee: \$1,250.00
Issue Date: 12/18/2015
Effective Date: 12/18/2015
Expiration Date: 11/17/2024
Permit Evaluation Report (PER) Annual Date: Apr 1 - Mar 31, Due May 15

This document constitutes issuance to:

D&I Silica Mingo Junction
2250 South Commercial Ave.
Mingo Junction, OH 43938

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

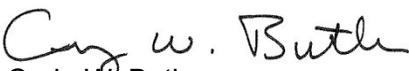
Ohio Environmental Protection Agency (EPA) District Office or local air agency responsible for processing and administering your permit:

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



Final Permit-to-Install and Operate
D&I Silica Mingo Junction
Permit Number: P0119804
Facility ID: 0641095006
Effective Date: 12/18/2015

Authorization (continued)

Permit Number: P0119804

Permit Description: Chapter 31 modification permit for Silica Sand Transloading Facility with an increase in emissions from railcar unloading to silos due the baghouse increasing in size from 20,000-cfm to 26,180-cfm.

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

Emissions Unit ID:	P901
Company Equipment ID:	Railcar Unloading, Silos, and Truck Loading
Superseded Permit Number:	P0117606
General Permit Category and Type:	Not Applicable



Final Permit-to-Install and Operate
D&I Silica Mingo Junction
Permit Number: P0119804
Facility ID: 0641095006
Effective Date: 12/18/2015

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
D&I Silica Mingo Junction
Permit Number: P0119804
Facility ID: 0641095006
Effective Date: 12/18/2015

B. Facility-Wide Terms and Conditions



Final Permit-to-Install and Operate
D&I Silica Mingo Junction
Permit Number: P0119804
Facility ID: 0641095006
Effective Date: 12/18/2015

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.



Final Permit-to-Install and Operate
D&I Silica Mingo Junction
Permit Number: P0119804
Facility ID: 0641095006
Effective Date: 12/18/2015

C. Emissions Unit Terms and Conditions

1. P901, Railcar Unloading, Silos, and Truck Loading

Operations, Property and/or Equipment Description:

Sand material handling operations including railcar unloading into pit (maximum annual throughput of 2,347,240 tons/yr) with chute/partial enclosure and 26,180-cfm baghouse (minimum capture efficiency of 95% and control efficiency of 99.99%); Covered conveyors and covered bucket elevators to fill storage silos; Eight storage silos (5,000 tons each) with bin vent filters (minimum capture of 100% and control efficiency of 99.9%); Load-out from each silo to tank trucks with total enclosures (minimum capture of 100% and control efficiency of 99.7%) using telescoping dustless loadout spouts (8), each equipped with 1,000-cfm filter system.

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 06/30/2008	Install sand handling operations with the following particulate emissions (PE) control technology: a railcar unloading baghouse that shall be designed to have at least a 95% capture efficiency and at least a 99.99% control efficiency; bin vents (up to four) on silos that shall be designed to have a 100% capture efficiency and at least a 99.9% control efficiency; and

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		<p>a truck loading filter system that shall be designed to have a 100% capture and 99.7% control efficiency.</p> <p>See b)(2)a. below.</p>
b.	OAC rule 3745-31-05(A)(3)(a)(ii), as effective 06/30/2008	<p>The Best Available Technology (BAT) requirements under OAC rule 3745-31-05(A)(3) do not apply to the PE from this air contaminant source since The calculated annual emission rate is less than 10 tons/year taking into account the voluntary restriction from OAC rule 3745-31-05(E).</p> <p>See b)(2)b. below.</p>
c.	OAC rule 3745-31-05 (E)	<p>Emissions shall not exceed 9.09 tons of PE per year.</p> <p>Install and operate sand handling operations with the following PE control technology:</p> <p>a railcar unloading baghouse that shall be designed to have at least a 95% capture efficiency and at least a 99.99% control efficiency;</p> <p>bin vents (up to eight) on silos that shall be designed to have a 100% capture efficiency and at least a 99.9% control efficiency; and</p> <p>a truck loading filter system that shall be designed to have a 100% capture and 99.7% control efficiency.</p>
d.	OAC rule 3745-17-07(A)	Visible PE from any stack serving this emissions unit shall not exceed twenty percent opacity as a six-minute average, except as provided by rule.
e.	OAC rule 3745-17-07(B)	Visible PE of fugitive dust shall not exceed twenty percent opacity as a three-minute average.



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
f.	OAC rule 3745-17-08(B)	Reasonably available control measures that are sufficient to minimize or eliminate visible PE of fugitive dust. See b)(2)c. below.
g.	OAC rule 3745-17-11	PE shall not exceed 67.96 lbs per hour.

(2) Additional Terms and Conditions

- a. The Best Available Technology (BAT) emissions limit applies until U.S. EPA approves Ohio Administrative Code (OAC) rule paragraph 3745-31-05(A)(3)(a) (the less than ten tons per year BAT exemption) into the Ohio State Implementation Plan (SIP).
- b. These requirements apply once U.S. EPA approves OAC rule paragraph 3745-31-05(A)(3)(a)(ii) (the less than ten tons per year exemption) as part of Ohio SIP.
- c. The permittee shall employ reasonably available control measures on the sand handling operations for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee shall install a chute/partial enclosure and a baghouse to capture PE from railcar unloading operations, covered conveyors and covered bucket elevators to fill storage silos equipped with bin vent filters, and telescoping dustless loadout spouts equipped with a filter system in order to capture PE from load-out of the silos into tank trucks. Nothing in this paragraph shall prohibit the permittee from employing additional control measures to ensure compliance.

c) Operational Restrictions

- (1) The permittee shall install and operate a chute/partial enclosure and a baghouse for railcar unloading operations, covered conveyors and covered bucket elevators to fill storage silos equipped with bin vent filters, and telescoping dustless loadout spouts equipped with a filter system for the control of PE whenever this emissions unit is in operation and shall maintain the control equipment in accordance with the manufacturer's recommendations, instructions, and/or operating manual(s), with any modifications deemed necessary by the permittee.
- (2) In the event the control equipment is not operating in accordance with the manufacturer's recommendations, instructions, or operating manual(s), with any modifications deemed necessary by the permittee, the control device shall be expeditiously repaired or otherwise returned to these documented operating conditions.

d) Monitoring and/or Recordkeeping Requirements

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

serving this emissions unit and for any visible emissions of fugitive dust from the egress points (i.e., building windows, doors, roof monitors, etc.) serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:

- a. the location and color of the emissions;
- b. whether the emissions are representative of normal operations;
- c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
- d. the total duration of any visible emissions incident; and
- e. any corrective actions taken to minimize or eliminate the visible emissions.

If visible emissions are present, a visible emissions incident has occurred. The observer does not have to document the exact start and end times for the visible emissions incident under item (d) above or continue the daily check until the incident has ended. The observer may indicate that the visible emissions incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible emissions were representative of normal operations, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible emissions.

- (2) The permittee shall maintain documentation of the manufacturer's recommendations, instructions, or operating manuals for the control equipment, along with the documentation of any modifications deemed necessary by the permittee. These documents shall be maintained at the facility and shall be made available to the appropriate Ohio EPA District Office or local air agency upon request.
- (3) The permittee shall conduct periodic inspections of the control equipment to determine whether it is operating in accordance with the manufacturer's recommendations, instructions, or operating manuals with any modifications deemed necessary by the permittee or operator. These inspections shall be performed at a frequency that shall be based upon the recommendation of the manufacturer and the permittee shall maintain a copy of the manufacturer's recommended inspection frequency and it shall be made available to Ohio EPA upon request.
- (4) In addition to the recommended periodic inspections, not less than once each calendar year the permittee shall conduct a comprehensive inspection of the control equipment and perform any needed maintenance and repair to ensure that it is operated in accordance with the manufacturer's recommendations.
- (5) The permittee shall document each inspection (periodic and annual) of the control equipment and shall maintain the following information:

- a. the date of the inspection;
 - b. a description of each/any problem identified and the date it was corrected;
 - c. a description of any maintenance and repairs performed; and
 - d. the name of person who performed the inspection.
- (6) These records shall be maintained at the facility for not less than five years from the date of the inspection and any necessary maintenance or repairs were completed and shall be made available to the appropriate Ohio EPA District Office or local air agency upon request.
- (7) The permittee shall maintain records that document any time periods when the control equipment was not in service when the emissions unit(s) was/were in operation, as well as, a record of all operations during which the control equipment was not operated according to the manufacturer's recommendations with any documented modifications made by the permittee. These records shall be maintained for a period of not less than five years and shall be made available to Ohio EPA upon request.
- e) Reporting Requirements
- (1) The reports required by this permit may be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal; or they may be mailed as a hard copy to the appropriate district office or local air agency.
 - (2) The permittee shall submit an annual Permit Evaluation Report (PER) to the Ohio EPA District Office or Local Air Agency by the due date identified in the Authorization section of this permit. The permit evaluation report shall cover a reporting period of no more than twelve months for each air contaminant source identified in this permit.
 - (3) The permittee shall notify the Director in writing of any daily record showing that the control equipment was not in service when the emissions unit was in operation. The notification shall include a copy of such record and shall be sent to the Ohio EPA, Southeast District Office (SEDO) within 30 days after the event occurs.
- 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. Design Efficiency:

Install sand handling operations with the following PE control technology:

 - i. a railcar unloading baghouse that shall be designed to have at least a 95% capture efficiency and at least a 99.99% control efficiency;
 - ii. bin vents (up to four) on silos that shall be designed to have a 100% capture efficiency and at least a 99.9% control efficiency; and



- iii. a truck loading filter system that shall be designed to have a 100% capture and 99.7% control efficiency.

Applicable Compliance Method:

Compliance is demonstrated by the following manufacturer's design efficiency:

- i. a design capture efficiency of at least 95% and a design control efficiency of at least 99.99% for PE from the unloading baghouse;
- ii. a design capture efficiency of 100% and a design control efficiency of at least 99.9% for PE from bin vents on silos; and
- iii. a design capture efficiency of 100% and a design control efficiency of at least 99.7% for PE from truck loading filter system.

- b. Emissions Limitation:

Visible PE from any stack serving this emissions unit shall not exceed twenty percent opacity as a six-minute average, except as specified by rule.

Applicable Compliance Method:

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

- c. Emissions Limitation:

Visible PE of fugitive dust shall not exceed twenty percent opacity as a three-minute average.

Applicable Compliance Method:

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

- d. Emissions Limitation:

PE shall not exceed 67.96 pounds per hour.

Applicable Compliance Method:

This emissions limitation was established using Table 1 of the appendix to OAC rule 3745-17-11, and a maximum process weight rate of 460 lbs per hour.

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", and the procedures specified in OAC rule 3745 17 03(B)(10). Alternative U.S. EPA-approved test methods may be used with prior approval from Ohio EPA, Southeast District Office.



e. Emissions Limitation:

PE shall not exceed 9.09 tons per year.

Applicable Compliance Method:

Railcar Unloading- fugitive and dust collector emissions:

Fugitive emissions = Uncontrolled emissions x baghouse control

$$= 37.99\text{TPY} \times (1-.95) = 1.90 \text{ tons/year}$$

Dust Collector Emissions = baghouse cfm x emission factor x 8760hr/2000lb

$$= ((26180 \text{ cfm} \times 60) \times (.005 \text{ g/scf})) / 7000 = 1.22 \text{ lb/hr} \times 8760\text{hr}/2000\text{lb} = 4.91 \text{ tons/yr.}$$

Truck Loadout from silos:

Loadout emissions = # spouts x baghouse cfm x emission factor x 8760h/2000lb

$$= 8 \text{ spouts} \times ((1,000 \text{ cfm} \times 60) \times (.005 \text{ g/scf})) / 7000 = .343 \text{ lb/hr} \times 8760\text{hr}/2000\text{lb} = 1.5 \text{ tons/year}$$

Storage Silos:

Storage Silos = # silos x bin vent CFM x emissions factor x 8760/2000lb

$$= 8 \times ((259 \text{ cfm} \times 60) \times (.01 \text{ Gr/CF})) / 7000 \times 8760\text{hr}/2000\text{lb}$$

$$= 0.778 \text{ tons/year}$$

Total Emissions = fugitive emissions + Dust Collector Emissions + loadout emissions + storage silo emissions

$$= 1.90 \text{ tpy} + 4.91\text{tpy} + 1.5 \text{ tpy} + 0.778$$

$$= 9.09 \text{ tons/year}$$

g) Miscellaneous Requirements

(1) None.