



State of Ohio Environmental Protection Agency

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**CERTIFIED MAIL**

**RE: FINAL PERMIT TO INSTALL MODIFICATION**

**BUTLER COUNTY**

**Application No: 14-04995**

**Fac ID: 1409010914**

**DATE: 2/28/2008**

Spurlino Materials  
Jim Spurlino  
4000 Oxford State Road  
Dayton, OH 45044

	TOXIC REVIEW
	PSD
	SYNTHETIC MINOR
	CEMS
	MACT
	NSPS
	NESHAPS
	NETTING
	MAJOR NON-ATTAINMENT
	MODELING SUBMITTED
	GASOLINE DISPENSING FACILITY

Enclosed Please find a modification to the Ohio EPA Permit To Install referenced above which will modify the terms and conditions.

You are hereby notified that this action of the Director is final 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 which the Commission, in its discretion, may reduce if by affidavit you demonstrate that payment of the full amount of the fee would cause extreme hardship. Notice of the filing of the appeal shall be filed with the Director within three (3) days of filing with the Commission. Ohio EPA requests that a copy of the appeal be served upon the Ohio Attorney General's Office, Environmental Enforcement Section. An appeal may be filed with the Environmental Review Appeals Commission at the following address:

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

Sincerely,

Michael W. Ahern, Manager  
Permit Issuance and Data Management Section  
Division of Air Pollution Control

CC: USEPA

HCDES



**FINAL ADMINISTRATIVE MODIFICATION OF PERMIT TO INSTALL 14-04995**

Application Number: 14-04995  
Facility ID: 1409010914  
Permit Fee: **\$0**  
Name of Facility: Spurlino Materials  
Person to Contact: Jim Spurlino  
Address: 4000 Oxford State Road  
Dayton, OH 45044

Location of proposed air contaminant source(s) [emissions unit(s)]:  
**4000 Oxford State Road  
Middletown, Ohio**

Description of proposed emissions unit(s):  
**Administrative modification to PTI 14-04995 due to revision of AP 42 emissions factors.**

The above named entity is hereby granted a modification to the permit to install described above pursuant to Chapter 3745-31 of the Ohio Administrative Code. Issuance of this modification does not constitute expressed or implied approval or agreement that, if constructed or modified in accordance with the plans included in the application, the above described source(s) of environmental pollutants will operate in compliance with applicable State and Federal laws and regulations, and does not constitute expressed or implied assurance that if constructed or modified in accordance with those plans included in the application, the above described source(s) of pollutants will be granted the necessary operating permits.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

Chris Korleski  
Director

## **Part I - GENERAL TERMS AND CONDITIONS**

### **A. Permit to Install General Terms and Conditions**

#### **1. Compliance Requirements**

The emissions unit(s) identified in this Permit to Install shall remain in full compliance with all applicable State laws and regulations and the terms and conditions of this permit.

#### **2. Reporting Requirements**

The permittee shall submit required reports in the following manner:

- a. Reports of any required monitoring and/or recordkeeping information shall be submitted to the appropriate Ohio EPA District Office or local air agency.
- b. Except as otherwise may be provided in the terms and conditions for a specific emissions unit, quarterly written reports of (a) any deviations (excursions) from emission limitations, operational restrictions, and control device operating parameter limitations that have been detected by the testing, monitoring, and recordkeeping requirements specified in this permit, (b) the probable cause of such deviations, and (c) any corrective actions or preventive measures which have been or will be taken, shall be submitted to the appropriate Ohio EPA District Office or local air agency. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted (i.e., postmarked) quarterly by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. (These quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06.)

#### **3. Records Retention Requirements**

Each record of any monitoring data, testing data, and support information required pursuant to this permit shall be retained for a period of five years from the date the record was created. Support information shall include, but not be limited to, all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. Such records may be maintained in computerized form.

#### **4. Inspections and Information Requests**

The Director of the Ohio EPA, or an authorized representative of the Director, may, subject to the safety requirements of the permittee and without undue delay, enter upon the premises of this source at any reasonable time for purposes of making inspections, conducting tests, examining records or reports pertaining to any emission of air contaminants, and determining compliance with any applicable State air pollution laws and

regulations and the terms and conditions of this permit. The permittee shall furnish to the Director of the Ohio EPA, or an authorized representative of the Director, upon receipt of a written request and within a reasonable time, any information that may be requested to determine whether cause exists for modifying, reopening or revoking this permit or to determine compliance with this permit. Upon verbal or written request, the permittee shall also furnish to the Director of the Ohio EPA, or an authorized representative of the Director, copies of records required to be kept by this permit.

**5. Scheduled Maintenance/Malfunction Reporting**

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. The malfunction of any emissions units or any associated air pollution control system(s) shall be reported to the appropriate Ohio EPA District Office or local air agency in accordance with paragraph (B) of OAC rule 3745-15-06. Except as provided in that rule, any scheduled maintenance or malfunction necessitating the shutdown or bypassing of any air pollution control system(s) shall be accompanied by the shutdown of the emissions unit(s) that is (are) served by such control system(s).

**6. Permit Transfers**

Any transferee of this permit shall assume the responsibilities of the prior permit holder. The appropriate Ohio EPA District Office or local air agency must be notified in writing of any transfer of this permit.

**7. Air Pollution Nuisance**

The air contaminants emitted by the emissions units covered by this permit shall not cause a public nuisance, in violation of OAC rule 3745-15-07.

**8. Termination of Permit to Install**

This Permit to Install shall terminate within eighteen months of the effective date of the Permit to Install if the owner or operator has not undertaken a continuing program of installation or modification or has not entered into a binding contractual obligation to undertake and complete within a reasonable time a continuing program of installation or modification. This deadline may be extended by up to 12 months if application is made to the Director within a reasonable time before the termination date and the party shows good cause for any such extension.

**9. Construction of New Sources(s)**

The proposed emissions unit(s) shall be constructed in strict accordance with the plans and application submitted for this permit to the Director of the Ohio Environmental Protection Agency. There may be no deviation from the approved plans without the express, written approval of the Agency. Any deviations from the approved plans or the above conditions

may lead to such sanctions and penalties as provided under Ohio law. Approval of these plans does not constitute an assurance that the proposed facilities will operate in compliance with all Ohio laws and regulations. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed sources cannot meet the requirements of this permit or cannot meet applicable standards.

If the construction of the proposed emissions unit(s) has already begun or has been completed prior to the date the Director of the Environmental Protection Agency approves the permit application and plans, the approval does not constitute expressed or implied assurance that the proposed facility has been constructed in accordance with the approved plans. The action of beginning and/or completing construction prior to obtaining the Director's approval constitutes a violation of OAC rule 3745-31-02. Furthermore, issuance of the Permit to Install does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. Approval of the plans in any case is not to be construed as an approval of the facility as constructed and/or completed. Moreover, issuance of the Permit to Install is not to be construed as a waiver of any rights that the Ohio Environmental Protection Agency (or other persons) may have against the applicant for starting construction prior to the effective date of the permit. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed facilities cannot meet the requirements of this permit or cannot meet applicable standards.

**10. Public Disclosure**

The facility is hereby notified that this permit, and all agency records concerning the operation of this permitted source, are subject to public disclosure in accordance with OAC rule 3745-49-03.

**11. Applicability**

This Permit To Install is applicable only to the emissions unit(s) identified in the Permit To Install. Separate Permit To Install for the installation or modification of any other emissions unit(s) are required for any emissions unit for which a Permit To Install is required.

**12. Best Available Technology**

As specified in OAC Rule 3745-31-05, all new sources must employ Best Available Technology (BAT). Compliance with the terms and conditions of this permit will fulfill this requirement.

**13. Source Operation and Operating Permit Requirements After Completion of Construction**

This facility is permitted to operate each source described by this Permit to Install for a period of up to one year from the date the source commenced operation. This permission to operate is granted only if the facility complies with all requirements contained in this

permit and all applicable air pollution laws, regulations, and policies. Pursuant to OAC Chapter 3745-35, the permittee shall submit a complete operating permit application within ninety (90) days after commencing operation of the emissions unit(s) covered by this permit.

**14. Construction Compliance Certification**

The applicant shall provide Ohio EPA with a written certification (see enclosed form) that the facility has been constructed in accordance with the Permit to Install application and the terms and conditions of the Permit to Install. The certification shall be provided to Ohio EPA upon completion of construction but prior to startup of the source.

**15. Fees**

The permittee shall pay fees to the Director of the Ohio EPA in accordance with ORC section 3745.11 and OAC Chapter 3745-78. The permittee shall pay all applicable Permit to Install fees within 30 days after the issuance of this Permit to Install.

**B. Permit to Install Summary of Allowable Emissions**

The following information summarizes the total allowable emissions, by pollutant, based on the individual allowable emissions of each air contaminant source identified in this permit.

**SUMMARY (for informational purposes only)**  
**TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS**

<u>Pollutant</u>	<u>Tons Per Year</u>
PE	56.3
PM10	17.3

**PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)**

**A. Applicable Emissions Limitations and/or Control Requirements**

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

**Operations, Property, and/or Equipment -(F003) - Sand and Aggregate Storage Piles Associated with Portable Plant P902**

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
OAC rule 3745-31-05(A)(3)	Particulate emissions (PE) from sand and aggregate storage piles shall not exceed 5.56 tons/yr.  Particulate emissions having a diameter of 10 microns and less (PM10) from sand and aggregate storage piles shall not exceed 2.6 tons/yr. There shall be no visible PE except for a period of time not to exceed one minute in any 60-minute observation period. Best available control measures that are sufficient to minimize or eliminate visible PE of fugitive dust (See terms and conditions A.2.a through A.2.e.)
OAC rule 3745-17-07(B)(6)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
OAC rule 3745-17-08(B)(6)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

**2. Additional Terms and Conditions**

- 2.a The permittee shall employ best available control measures on all load-in and load-out operations associated with the storage piles for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's application, the permittee has committed to maintain minimal drop heights for stackers and front-loaders, and chemical stabilization/dust suppressants and/or watering/sprinkling systems at sufficient treatment frequencies to ensure compliance.

The operator shall avoid dragging any front-end loader bucket along the ground. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

- 2.b** 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.
- 2.c** The permittee shall employ best available control measures for wind erosion from the surfaces of all storage piles for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the application, the permittee has committed to perform one or more of the following: chemical stabilization, watering/sprinkling systems/hoses, covering the storage piles to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- 2.d** 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.
- 2.e** Implementation of the above-mentioned control measures in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the requirements of OAC rule 3745-31-05(A)(3).
- 2.f** The permittee may relocate the portable source within the State of Ohio without first obtaining a permit to install (PTI) providing the appropriate exemption requirements have been met and following the approval of the director. The director may issue a "Notice of Site Approval" if the portable source meets the following criteria pursuant to OAC rule 3745-31-03(A)(1)(p)(i):
- a. the portable source has been issued a permit to install (PTI) and the permittee continues to comply with any applicable best available technology (BAT) determination and state and/or federal rules;
  - b. the portable source is operating pursuant to a currently effective PTI and/or any applicable permit to operate (PTO) and continues to comply with the requirements of the permit;
  - c. the permittee has provided a minimum of 30 days notice of the intent to relocate the portable source to the permitting authority (the Ohio EPA District

Office or local air agency that has issued the effective current permit) prior to the scheduled relocation;

- d. the Ohio EPA district office or local air agency having jurisdiction over the new site has determined that the permitted emissions would not cause a nuisance in violation of OAC rule 3745-15-07; and the relocation of the portable source, along with any supporting permitted emissions (e.g. roadways or storage piles), 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
- e. the director has issued a "Notice of Site Approval", stating that the proposed site is acceptable under OAC rule 3745-15-07 and the relocation will not result in the installation of a major stationary source or a modification of an existing major stationary source.

The portable source can be relocated upon receipt of the director's "Notice of Site Approval" for the site.

- 2.g** 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, the permittee shall submit an application and obtain a PTI for the new location prior to moving the portable source.

When a portable source is located at a stationary source or at a site with multiple portable sources, the potential emissions of the portable source may be required to be added to that of the facility, in order to determine the potential to emit for Title V and PSD applicability. 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 rule 3745-77, which may include the requirement to apply for a Title V permit.

The "Notice of Intent to Relocate" shall be submitted to the Ohio EPA District Office or local air agency responsible for issuing the permits for the portable source. Upon receipt of the notice, the permitting office shall notify the appropriate Ohio EPA District Office or local air agency having jurisdiction over the new site. 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.

## **B. Operational Restrictions**

None

**C. Monitoring and/or Recordkeeping Requirements**

1. Except as otherwise provided in this section, the permittee shall perform inspections of each load-in operation at each storage pile in accordance with the following frequencies:

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

2. Except as otherwise provided in this section, the permittee shall perform inspections of each load-out operation at each storage pile in accordance with the following frequencies:

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

3. Except as otherwise provided in this section, the permittee shall perform inspections of the wind erosion from pile surfaces associated with each storage pile in accordance with the following frequencies:

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

**D. Reporting Requirements**

None

**E. Testing Requirements**

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

- a. Emissions Limitations:  
Particulate emissions (PE) shall not exceed 5.56 tons per year (TPY)

Applicable Compliance Method:

Compliance with PE limitations shall be determined by using the emission factor equations in Sections 13.2.4 and 13.2.5, in Compilation of Air Pollutant Emission Factors, AP-42, Fifth Edition, Volume 1 (revised 11/06), for load-in operations, load-out operations, and wind erosion.

The annual PE emissions limitation established through OAC rule 3745-31-05(A)(3) was developed from the following equations using the information submitted by the permittee in PTI Application 14-04995, submitted on July, 2000, and information in AP-42. This emissions limit was based on a maximum production of 371,250 tons per year, a maximum storage surface area of 0.52 acres, a 50% control efficiency for wetting material and a 70% overall control efficiency for storing material in bins:

Equation 1                       $E = k(0.0032)(U/5)^{1.3}/(M/2)^{1.4}$

where

- k is the particle size multiplier 0.74,
- E = particulate emission factor (lb/ton),
- U = mean wind speed, (miles per hour, mph), and
- M = material moisture content (%)

$E = (0.74)(0.0032)(9/5)^{1.3}/(0.7/2)^{1.4} = 0.022 \text{ lb PE/ton}$

$0.022 \text{ lb PE/ton} \times 371,250 \text{ tons/year} \times 1 \text{ Ton}/2000 \text{ lbs} \times (1-0.50) = 2.04 \text{ TPY PE}$

2.04 TPY PE x 2 for considering load-in and load-out operations = 4.08 TPY PE

Equation 2 
$$k \sum_{i=1}^N P_i$$

which results in an uncontrolled emission factor of 9.4 tons PE/acre/year

9.4 tons PE/acre/yr x 0.52 acres x (1-0.70) = 1.48 TPY PE

4.08 TPY PE + 1.48 TPY PE = 5.56 TPY PE

b. Emissions Limitations:

Particulate emissions having a diameter of 10 microns and less (PM10) shall not exceed 2.6 tons per year (TPY)

Applicable Compliance Method:

Compliance with fugitive PE limitations shall be determined by using the emission factor equations in Sections 13.2.4 and 13.2.5, in Compilation of Air Pollutant Emission Factors, AP-42, Fifth Edition, Volume 1 (revised 11/06), for load-in operations, load-out operations, and wind erosion.

The annual PM10 emissions limitation established through OAC rule 3745-31-05(A)(3) was developed from the following equations using the information submitted by the permittee in PTI Application 14-04995, submitted on July 21, 2000, and information in AP-42. This emissions limit was based on a maximum production of 371,250 tons per year, a maximum storage surface area of 0.52 acres, a 50% control efficiency for wetting material and a 70% overall control efficiency for storing material in bins:

Equation 1 
$$E = k(0.0032)(U/5)^{1.3}/(M/2)^{1.4}$$

where k is the particle size multiplier 0.35,  
 E = particulate emission factor (lb/ton),  
 U = mean wind speed, (miles per hour, mph), and  
 M = material moisture content (%)

$$E = (0.35)(0.0032)(9/5)^{1.3}/(0.7/2)^{1.4} = 0.01 \text{ lb PM10/ton}$$

0.01 lb PM10/ton x 371,250 tons/year x 1 Ton/2000 lbs x (1-0.50) = 0.93 TPY PM10

0.93 TPY PM10 x 2 for considering load-in and load-out operations = 1.86 TPY PM10

Equation 2 
$$k \sum_{i=1}^N P_i$$

which results in an uncontrolled emission factor of 9.4 tons PE/acre/year

$9.4 \text{ tons PE/acre/yr} \times 0.52 \text{ acres} \times (1-0.70) = 1.48 \text{ TPY PE}$

PM10 is assumed to be 50% of PE

$1.48 \text{ TPY} \times 0.5 = 0.74 \text{ TPY PM10}$

$1.86 \text{ TPY PM10} + 0.74 \text{ TPY PM10} = 2.6 \text{ TPY PM10}$

c. Emission Limitation:

There shall be no visible PE except for a period of time not to exceed one minute in any 60-minute observation period.

Applicable Compliance Method:

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

**F. Miscellaneous Requirements**

1. The terms and conditions of this permit to install shall supercede the terms and conditions of permit to install 14-04995 issued on August 17, 2000.

## **PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)**

### **A. Applicable Emissions Limitations and/or Control Requirements**

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

#### **Operations, Property, and/or Equipment -(F004) - Paved and Unpaved Roadways Associated with Portable Plant P902**

<b>Applicable Rules/Requirements</b>	<b>Applicable Emissions Limitations/Control Measures</b>
OAC rule 3745-31-05(A)(3)	<p>Particulate emissions (PE) from paved roadways shall not exceed 1.76 tons/yr.</p> <p>Particulate emissions having a diameter of 10 microns and less (PM10) from paved roadways shall not exceed 0.34 ton/yr.</p> <p>Particulate emissions (PE) from unpaved roadways shall not exceed 4.65 tons/yr.</p> <p>Particulate emissions having a diameter of 10 microns and less (PM10) from unpaved roadways shall not exceed 1.19 tons/yr.</p> <p>See terms A.2.2.a through A.2.2.k</p>
OAC rule 3745-17-07(B)(4) and (5)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
OAC rule 3745-17-08(B)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

### **2. Additional Terms and Conditions**

- 2.a** All paved and unpaved roadways and parking areas are covered by this permit and subject to the above-mentioned requirements.
- 2.b** There shall be no visible particulate emissions from any paved roadway or parking area except for a period of time not to exceed one minute during any sixty-minute observation period.

- 2.c** There shall be no visible particulate emissions from any unpaved roadway or parking area except for a period of time not to exceed three minutes during any sixty-minute observation period.
- 2.d** The permittee shall employ best available control measures on all paved roadways and parking areas for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to treat the paved roadways and parking areas by flushing with water at sufficient treatment frequencies to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- 2.e** The permittee shall employ best available control measures on all unpaved roadways and parking areas for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to treat the unpaved roadways and parking areas with water at sufficient treatment frequencies to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- 2.f** Any unpaved roadways or parking area, which during the term of this permit is paved or takes the characteristics of a paved surface due to the application of certain types of dust suppressants, may be controlled using water. Any unpaved roadway or parking area that takes the characteristics of a paved roadway or parking area due to the application of certain types of dust suppressants shall remain subject to the visible emission limitation for unpaved roadways and parking areas. Any unpaved roadway or parking area that is paved shall be subject to a visible emission limitation of no visible particulate emissions except for one minute during any 60-minute period.
- 2.g** The needed frequencies of implementation of the control measures shall be determined by the permittee's inspections pursuant to the monitoring section of this permit. Implementation of the control measures shall not be necessary for a paved or unpaved roadway or parking area that is covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements. Implementation of any control measure may be suspended if unsafe or hazardous driving conditions would be created by its use.
- 2.h** 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.

- 2.i 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.
- 2.j The permittee shall post and enforce on the property, a maximum speed limit of 10 miles per hour.
- 2.k Implementation of the above-mentioned control measures in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the best available technology requirements of OAC rule 3745-31-05(A)(3).
- 2.l The permittee may relocate the portable source within the State of Ohio without first obtaining a permit to install (PTI) providing the appropriate exemption requirements have been met and following the approval of the director. The director may issue a "Notice of Site Approval" if the portable source meets the following criteria pursuant to OAC rule 3745-31-03(A)(1)(p)(i):
  - a. the portable source has been issued a permit to install (PTI) and the permittee continues to comply with any applicable best available technology (BAT) determination and state and/or federal rules;
  - b. the portable source is operating pursuant to a currently effective PTI and/or any applicable permit to operate (PTO) and continues to comply with the requirements of the permit;
  - c. the permittee has provided a minimum of 30 days notice of the intent to relocate the portable source to the permitting authority (the Ohio EPA District Office or local air agency that has issued the effective current permit) prior to the scheduled relocation;
  - d. the Ohio EPA district office or local air agency having jurisdiction over the new site has determined that the permitted emissions would not cause a nuisance in violation of OAC rule 3745-15-07; and the relocation of the portable source, along with any supporting permitted emissions (e.g. roadways or storage piles), 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
  - e. the director has issued a "Notice of Site Approval", stating that the proposed site is acceptable under OAC rule 3745-15-07 and the relocation will not result in the installation of a major stationary source or a modification of an existing major stationary source.

The portable source can be relocated upon receipt of the director's "Notice of Site Approval" for the site.

- 2.m** 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, the permittee shall submit an application and obtain a PTI for the new location prior to moving the portable source.

When a portable source is located at a stationary source or at a site with multiple portable sources, the potential emissions of the portable source may be required to be added to that of the facility, in order to determine the potential to emit for Title V and PSD applicability. 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 rule 3745-77, which may include the requirement to apply for a Title V permit.

The "Notice of Intent to Relocate" shall be submitted to the Ohio EPA District Office or local air agency responsible for issuing the permits for the portable source. Upon receipt of the notice, the permitting office shall notify the appropriate Ohio EPA District Office or local air agency having jurisdiction over the new site. 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.

**B. Operational Restrictions**

None

**C. Monitoring and/or Recordkeeping Requirements**

1. The permittee shall perform daily inspections of all paved and unpaved roadways and parking areas.
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 may, upon receipt of written approval from the appropriate Ohio EPA District Office or local air agency, modify the above-mentioned inspection frequencies if operating experience indicates that less frequent inspections would be sufficient to ensure compliance with the above-mentioned applicable requirements.
4. 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 4.d. shall be kept separately for (i) the paved roadways and parking areas and (ii) the unpaved roadways and parking areas, and shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

#### **D. Reporting Requirements**

1. The permittee shall submit deviation reports that identify any of the following occurrences:
  - a. Each day during which an inspection was not performed by the required frequency, excluding an inspection which was not performed due to an exemption for snow and/or ice cover or precipitation; and
  - b. Each instance when a control measure, that was to be implemented as a result of an inspection, was not implemented.
2. The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.

#### **E. Testing Requirements**

1. Compliance with the emission limitation in section A of the terms and conditions of this permit shall be determined in accordance with the following method:
  - a. Emission Limitation:  
Particulate emissions (PE) from paved roadways shall not exceed 1.76 tons per year (TPY)

##### Applicable Compliance Method:

Compliance with the PE limitation shall be determined by using the emission factor equations in Section 13.2.1, in Compilation of Air Pollutant Emission Factors, AP-42, Fifth Edition, Volume 1 (revised 11/06) for paved roadways. Should further updates in AP-42 occur, the most current equations for paved roads shall be used.

The annual PE emissions limitation established through OAC rule 3745-31-05(A)(3) was developed from the following equations using the information submitted by the

permittee in PTI Application 14-04995, submitted on July 21, 2000 and information in AP-42. This emissions limit was based on a maximum of 1549.17 vehicle miles traveled per year, and a 80% control efficiency for PE:

$$E = k(sL/2)^{0.65}(W/3)^{1.5} - C$$

where k is the particle size multiplier given in Table 13.2-1.2, and

E = particulate emission factor (having units matching the units of k)

sL = road surface silt loading (g/m<sup>2</sup>)

W = average weight (tons) of the vehicles traveling the road, and

C = emission factor for 1980's vehicle fleet exhaust, brake wear and tire wear

$$E = 0.082 (11.87/2)^{0.65} \times (37.2/3)^{1.5} - 0.00047 = 11.39 \text{ lb PE/VMT}$$

$$11.39 \text{ lb PE/VMT} \times 1549.17 \text{ VMT/year} \times 1 \text{ Ton/2000 lbs} \times (1-0.80) = 1.76 \text{ TPY PE}$$

b. Emission Limitation:

Particulate emissions having a diameter of 10 microns and less (PM10) from paved roadways shall not exceed 0.34 tons per year (TPY)

Applicable Compliance Method:

Compliance with the PM10 limitation shall be determined by using the emission factor equations in Section 13.2.1, in Compilation of Air Pollutant Emission Factors, AP-42, Fifth Edition, Volume 1 (revised 11/06) for paved roadways. Should further updates in AP-42 occur, the most current equations for paved roads shall be used.

The annual PM10 emissions limitation established through OAC rule 3745-31-05(A)(3) was developed from the following equations using the information submitted by the permittee in PTI Application 14-04995, submitted on July, 2000, and information in AP-42. This emissions limit was based on a maximum of 1549.17 vehicle miles traveled per year, and a 80% control efficiency for PE:

$$E = k(sL/2)^{0.65}(W/3)^{1.5} - C$$

where k is the particle size multiplier given in Table 13.2-1.2, and

E = particulate emission factor (having units matching the units of k)

sL = road surface silt loading (g/m<sup>2</sup>)

W = average weight (tons) of the vehicles traveling the road, and

C = emission factor for 1980's vehicle fleet exhaust, brake wear and tire wear

$$E = 0.016 (11.87/2)^{0.65} \times (37.2/3)^{1.5} - 0.00047 = 2.22 \text{ lb PE/VMT}$$

$$2.22 \text{ lb PE/VMT} \times 1549.17 \text{ VMT/year} \times 1 \text{ Ton/2000 lbs} \times (1-0.80) = 0.34 \text{ TPY PE}$$

- c. Emission Limitation:  
Particulate emissions (PE) from unpaved roadways shall not exceed 4.65 tons per year (TPY)

Applicable Compliance Method:

Compliance with the PE limitation shall be determined by using the emission factor equation in Section 13.2.2, in Compilation of Air Pollutant Emission Factors, AP-42, Fifth Edition, Volume 1 (revised 11/06) for unpaved roadways. Should further updates in AP-42 occur, the most current equations for unpaved roads shall be used.

The annual PE emissions limitation established through OAC rule 3745-31-05(A)(3) was developed from the following equations using the information submitted by the permittee in PTI Application 14-04995, submitted on July, 2000, and information in AP-42. This emissions limit was based on a maximum of 2323.76 vehicle miles traveled per year and a 50% control efficiency for PE:

$$E = k(s/12)^a(W/3)^b$$

where k, a and b are empirical constants given in Table 13.2.2-2, and

E = size specific emission factor (lb/VMT)

s = surface material silt content (%)

W = mean vehicle weight (tons)

$$E = 4.9(4.8/12)^{0.7}(37.2/3)^{0.45} = 8.01 \text{ lb PE/VMT}$$

$$8.01 \text{ lb PE/VMT} \times 2323.76 \text{ VMT/year} \times 1 \text{ Ton}/2000 \text{ lbs} \times (1-0.50) = 4.65 \text{ TPY PE}$$

- d. Emission Limitation:  
Particulate emissions having a diameter of 10 microns and less (PM10) from unpaved roadways shall not exceed 1.19 tons per year (TPY)

Applicable Compliance Method:

Compliance with the PE limitation shall be determined by using the emission factor equation in Section 13.2.2, in Compilation of Air Pollutant Emission Factors, AP-42, Fifth Edition, Volume 1 (revised 11/06) for unpaved roadways. Should further updates in AP-42 occur, the most current equations for unpaved roads shall be used.

The annual PE emissions limitation established through OAC rule 3745-31-05(A)(3) was developed from the following equations using the information submitted by the permittee in PTI Application 14-04995, submitted July 21, 2000 and information in AP-42. This emissions limit was based on a maximum of 2323.76 vehicle miles traveled per year and a 50% control efficiency for PE:

$$E = k(s/12)^a(W/3)^b$$

where k, a and b are empirical constants given in Table 13.2.2-2,

E = size specific emission factor (lb/VMT)

s = surface material silt content (%) and

W = mean vehicle weight (tons)

$$E = 1.5(4.8/12)^{0.9}(37.2/3)^{0.45} = 2.04 \text{ lb PE/VMT}$$

$$2.04 \text{ lb PE/VMT} \times 2323.76 \text{ VMT/year} \times 1 \text{ Ton/2000 lbs} \times (1-0.50) = 1.19 \text{ TPY PE}$$

2. Compliance with the emission limitation in Section A of the terms and conditions of this permit shall be determined in accordance with the following method:

- a. Emission Limitation:

There shall be no visible PE from the paved roadways and/or parking areas except for a period of time not to exceed one minute during any 60-minute observation period

Applicable Compliance Method:

If required, compliance with the visible PE limitation listed above shall be determined in accordance with Test Method 22 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources").

- b. Emission Limitation:

There shall be no visible PE from the unpaved roadways and/or parking areas except for a period of time not to exceed three minutes during any 60-minute observation period

Applicable Compliance Method:

If required, compliance with the visible PE limitation listed above shall be determined in accordance with Test Method 22 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources").

## **F. Miscellaneous Requirements**

1. The terms and conditions of this permit to install shall supercede the terms and conditions of permit to install 14-04995 issued on August 17, 2000.



Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
<p>OAC rule 3745-17-07(A)(1)</p> <p>OAC rule 3745-17-07(B)(1)</p> <p>OAC rule 3745-17-08(B)(3)</p> <p>OAC rule 3745-17-11(B)</p>	<p>filter.</p> <p>See term A.2.2.d. and A.2.2.f.</p> <p>The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A)(1) &amp; (B)(1) and OAC rule 3745-17-08(B)(1)&amp;(3).</p> <p>See term A.2.2.b.</p> <p>See A.2.2.c.</p> <p>PE shall not exceed 0.030 grain of PM/dscf from the fabric filter outlet</p> <p>The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).</p>
<p>Transit mix truck loading w/fabric filter</p> <p>OAC rule 3745-31-05(A)(3)</p> <p>OAC rule 3745-17-07(A)(1)</p> <p>OAC rule 3745-17-07(B)(1)</p> <p>OAC rule 3745-17-08(B)(3)</p>	<p>Particulate emissions (PE) shall not exceed 43.3 lbs/hr or 36.1 tons/yr from the fabric filter.</p> <p>Particulate emissions having a diameter of 10 microns and less (PM10) shall not exceed 12.1 lbs/hr or 10.08 tons/yr from the fabric filter.</p> <p>See term A.2.2.e.</p> <p>The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A)(1)&amp;(B)(1) and OAC rule 3745-17-08(B)(1)&amp;(3)</p> <p>See term A.2.2.b.</p> <p>See term A.2.2.c.</p> <p>PE shall not exceed 0.030 grain of PE/dscf from the fabric filter outlet or have no visible emissions from the stack</p> <p>The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).</p>

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
OAC rule 3745-17-11(B)	
Sand/aggregate transfer to elevated bins OAC rule 3745-31-05(A)(3)	<p>Particulate emissions (PE) shall not exceed 0.77 lb/hr or 0.64 ton/yr.</p> <p>Particulate emissions having a diameter of 10 microns and less (PM10) shall not exceed 0.37 lb/hr or 0.31 ton/yr from the fabric filter.</p> <p>The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(B)(1).</p>
OAC rule 3745-17-07(B)(1)	See term A.2.2.c.
OAC rule 3745-17-08(B)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

## 2. Additional Terms and Conditions

- 2.a** Sand and aggregate shall be maintained in a moist condition in order to minimize or eliminate visible emissions of fugitive dust.
- 2.b** Visible particulate emissions from any stack shall not exceed 20% opacity, as a six-minute average, except as specified by rule.
- 2.c** Visible particulate emissions of fugitive dust shall not exceed 20% opacity, as a three-minute average, except as specified by rule.
- 2.d** The cement/flyash/sand and aggregate weigh hopper shall be partially enclosed and vented to a fabric filter with at least a 95% control efficiency for PE and PM10.
- 2.e** The transit mix truck loading station shall be partially enclosed and vented to a fabric filter with at least a 95% control efficiency for PE and PM10.
- 2.f** The sand/aggregate weigh hopper shall be partially enclosed in order to minimize or eliminate visible emissions of fugitive dust.

- 2.g** The hourly emission limitations outlined above are based upon the emissions unit's potential to emit. Therefore, no hourly records are required to demonstrate compliance with these limits.
- 2.h** Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by partial enclosure of the transit mix truck loading station and sand and aggregate weigh hopper, the use of a fabric filter, visible emission limitations and production limits.
- 2.i** The permittee may relocate the portable source within the State of Ohio without first obtaining a permit to install (PTI) providing the appropriate exemption requirements have been met and following the approval of the director. The director may issue a "Notice of Site Approval" if the portable source meets the following criteria pursuant to OAC rule 3745-31-03(A)(1)(p)(i):
- a. the portable source has been issued a permit to install (PTI) and the permittee continues to comply with any applicable best available technology (BAT) determination and state and/or federal rules;
  - b. the portable source is operating pursuant to a currently effective PTI and/or any applicable permit to operate (PTO) and continues to comply with the requirements of the permit;
  - c. the permittee has provided a minimum of 30 days notice of the intent to relocate the portable source to the permitting authority (the Ohio EPA District Office or local air agency that has issued the effective current permit) prior to the scheduled relocation;
  - d. the Ohio EPA district office or local air agency having jurisdiction over the new site has determined that the permitted emissions would not cause a nuisance in violation of OAC rule 3745-15-07; and the relocation of the portable source, along with any supporting permitted emissions (e.g. roadways or storage piles), 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
  - e. the director has issued a "Notice of Site Approval", stating that the proposed site is acceptable under OAC rule 3745-15-07 and the relocation will not result in the installation of a major stationary source or a modification of an existing major stationary source.

The portable source can be relocated upon receipt of the director's "Notice of Site Approval" for the site.

- 2.j** 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,

the permittee shall submit an application and obtain a PTI for the new location prior to moving the portable source.

When a portable source is located at a stationary source or at a site with multiple portable sources, the potential emissions of the portable source may be required to be added to that of the facility, in order to determine the potential to emit for Title V and PSD applicability. 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 rule 3745-77, which may include the requirement to apply for a Title V permit.

The "Notice of Intent to Relocate" shall be submitted to the Ohio EPA District Office or local air agency responsible for issuing the permits for the portable source. Upon receipt of the notice, the permitting office shall notify the appropriate Ohio EPA District Office or local air agency having jurisdiction over the new site. 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.

**B. Operational Restrictions**

1. The maximum concrete production rate for this emissions unit shall not exceed 500,000 tons per year.

**C. Monitoring and/or Recordkeeping Requirements**

1. The permittee shall maintain monthly records of the amount of concrete produced in this emissions unit.

**D. Reporting Requirements**

1. The permittee shall submit annual reports that identify the annual production rate in tons per year for this emissions unit. These reports shall be submitted by January 31 of each year.

**E. Testing Requirements**

1. Compliance with the emission and production limitations in Sections A and B of these terms and conditions shall be determined in accordance with the following methods:
  - a. Emissions Limitations  
0.77 lb/hr; 0.64 TPY PE                      Sand/aggregate transfer to elevated bins  
0.37 lb/hr; 0.31 TPY PM-10                Sand/aggregate transfer to elevated bins  
0.37 lb/hr; 0.31 TPY PE                      Weigh hopper loading  
0.18 lb/hr; 0.14 TPY PM-10                Weigh hopper loading  
8.69 lbs/hr; 7.24 TPY PE                    Unloading to silos with fabric filter  
3.52 lbs/hr; 2.92 TPY PM-10                Unloading to silos with fabric filter

43.3 lbs/hr; 36.1 TPY PE Transit mix loading with fabric filter  
12.1 lbs/hr; 10.08 TPY PM-10 Transit mix loading with fabric filter

**Applicable Compliance Method:**

Compliance with the particulate emissions limitations in term and condition A.1 shall be determined in a calculation using the applicable emission factors from AP-42, Fifth Edition, Chapter 11.12, Concrete Batching (June 2006), multiplied by the actual process rate in tons material per hour and tons material per year.

**b. Emissions Limitation**

Particulate emissions from the fabric filter outlet stack associated with emissions unit P902 shall achieve an outlet particulate emissions rate of 0.030 gr/dscf or have no visible emissions from the stack.

If complying with the grains/dscf emissions limit, then the visible particulate emissions limit from any stack shall not exceed 20% opacity as a six-minute average.

**Applicable Compliance Method**

If required, compliance with the mass emission limitation shall be determined in accordance with Test Methods 1-5 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources")

Compliance with the visible emission limitation shall be determined in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), , as such Appendix existed on July 1, 2002.

**c. Emissions Limitation**

Visible particulate emissions from any stack shall not exceed 20% opacity, as a six-minute average, except as specified by rule.

**Applicable Compliance Method**

Compliance shall be determined in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 2002.

**d. Emissions Limitation**

Fugitive visible particulate emissions from any operation associated with this emissions unit shall not exceed twenty percent opacity as a three-minute average, except as specified by rule.

**Applicable Compliance Method**

Compliance shall be determined in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources").

**Spurlino Materials**

**PTI Application: 14-04995**

**Modification Issued: 2/28/2008**

**Facility ID: 1409010914**

**Emissions Unit ID: P902**

e. Production limitation

The maximum allowable concrete production rate shall not exceed 500,000 tons per year.

Applicable Compliance Method

Compliance with the production limitation in term and condition B.1. shall be determined by the records maintained pursuant to term and condition C.1.

**F. Miscellaneous Requirements**

1. The terms and conditions of this permit to install shall supercede the terms and conditions of permit to install 14-04995 issued on August 17, 2000.