



State of Ohio Environmental Protection Agency

**RE: FINAL PERMIT TO INSTALL
FAIRFIELD COUNTY**

CERTIFIED MAIL

Street Address:

122 S. Front Street

Lazarus Gov. Center TELE: (614) 644-3020 FAX: (614) 644-2329

Mailing Address:

Lazarus Gov. Center
P.O. Box 1049

Application No: 01-08970

Fac ID: 0123000292

DATE: 5/24/2005

FW Slotter Inc
Mike Terry
1997 Harmon Avenue
Columbus, OH 43223

Enclosed please find an Ohio EPA Permit to Install which will allow you to install the described source(s) in a manner indicated in the permit. Because this permit contains several conditions and restrictions, I urge you to read it carefully.

The Ohio EPA is urging 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 Pollution Prevention at (614) 644-3469.

You are hereby notified that this action by the Director is final and may be appealed to the Ohio Environmental Review Appeals Commission pursuant to Chapter 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. It must be filed within thirty (30) days after the notice of the Directors action. A copy of the appeal must be served on the Director of the Ohio Environmental Protection Agency within three (3) days of filing with the Commission. 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, Ohio 43215

Sincerely,

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

cc: USEPA

CDO



**Permit To Install
Terms and Conditions**

**Issue Date: 5/24/2005
Effective Date: 5/24/2005**

FINAL PERMIT TO INSTALL 01-08970

Application Number: 01-08970
Facility ID: 0123000292
Permit Fee: **\$5400**
Name of Facility: FW Slotter Inc
Person to Contact: Mike Terry
Address: 1997 Harmon Avenue
Columbus, OH 43223

Location of proposed air contaminant source(s) [emissions unit(s)]:
**2134 Reynoldsburg Baltimore Rd NW
Baltimore, Ohio**

Description of proposed emissions unit(s):
Cement silo with baghouse, storage piles, weigh hopper and aggregate bins.

The above named entity is hereby granted a Permit to Install for the above described emissions unit(s) 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 above described emissions unit(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 and specifications, the above described emissions unit(s) of pollutants will be granted the necessary permits to operate (air) or NPDES permits as applicable.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

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 quarterly, i.e., 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

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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.

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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>
PM	14.64
(PM-10)	(4.68)

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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
F001 - storage piles, including load-in, load-out, and wind erosion (These storage piles are associated with portable concrete batch plant P901.)	OAC rule 3745-31-05(A)(3) OAC rule 3745-17-08(B) OAC rule 3745-17-07(B)	2.49 TPY of particulate emissions (PE) There shall be no visible emissions from this emissions unit except for a period of time not to exceed one minute in any hour. The permittee shall employ best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see sections A.2.b through A.2.d). In accordance with paragraph (A)(1) of OAC rule 3745-17-08, the requirements of OAC rule 3745-17-08(B) shall not apply to this emissions unit. In accordance with paragraph (B)(11)(e) of OAC rule 3745-17-07, the requirements of OAC rule 3745-17-07(B) shall not apply to this emissions unit.

2. Additional Terms and Conditions

- 2.a The storage piles that are covered by this permit and subject to the requirements of OAC rule 3745-31-05 are listed below:

all material storage piles at the facility

- 2.b** The permittee shall employ best available control measures on all load-in and load-out operations associated with the storage piles and 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 permittee’s permit application, the permittee has committed to treating the storage piles with water as needed to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- 2.c** The above-mentioned control measure(s) shall be employed for each load-in and load-out operation of each storage pile and for wind erosion from the surfaces of all storage piles 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.d** 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.

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 and load-out operation at each storage pile and for wind erosion from the surfaces of all storage piles in accordance with the following frequencies:

<u>storage pile identification</u>	<u>minimum inspection frequency</u>
all material storage piles	weekly

- 2. 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.

3. 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.
4. The permittee may, upon receipt of written approval from the Ohio EPA, Central District Office, 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.
5. 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 5.d. shall be kept separately for (i) the load-in operations, (ii) the load-out operations, and (iii) the pile surfaces (wind erosion), and shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

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

Emissions Unit ID: **F001**

- 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 limitations specified in section A.1. of these terms and conditions shall be determined in accordance with the following methods:
 - 1.a. Emission Limitation:
2.49 TPY of PE

Applicable Compliance Method:

Compliance with the annual PE limitation shall be determined using the following equations:

(for load-in and load-out operations from AP-42 "Compilation of Air Pollutant Emission Factors," Section 13.2.4, 1/95)

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

where:

E = emission factor, in lbs/ton;

k = particle size multiplier (dimensionless, 0.74 for PM, 0.35 for PM-10);

U = mean wind speed, meters per second (m/s) [10.8 miles per hour (mph)]; and

M = material moisture content (1.1%, highest for crushed limestone in AP-42).

[for wind erosion from USEPA's Control of Open Fugitive Dust Sources (9/88)]

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

where:

E = emission factor, in lbs/day/acre;

s = silt content of material from Table 4-1 of the document (1.6%);

p = # of days with >0.01 inches of precipitation each year from Fig. 3-1 (140 days); and

f = percentage of time wind speed exceeds 12 mph (30% standard value).

1.b. Emission Limitation:

There shall be no visible emissions from this emissions unit except for a period of time not to exceed one minute in any hour.

Applicable Compliance Method:

Compliance with the visible emission limitation shall be determined in accordance with Test Method 22 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(c) of OAC rule 3745-17-03.

F. Miscellaneous Requirements

1. Notice to Relocate a Portable or Mobile Source

Pursuant to OAC rule 3745-31-03(A)(1)(p)(i), the permittee of a portable or mobile emissions unit may relocate within the State of Ohio without first obtaining a permit to install (PTI) providing the following criteria are met:

- a. the portable emissions unit is equipped with the best available control technology for such portable emissions unit;
- b. the portable emissions unit is operating pursuant to a currently effective permit to operate (PTO);
- c. the applicant has provided proper notice of intent to relocate the portable emissions unit to the Ohio EPA, Central District Office and the appropriate field office having jurisdiction over the new site, within a minimum of 30 days prior to the scheduled relocation; and
- d. in the Ohio EPA, Central District Office's and the appropriate field office's judgement, the proposed site is acceptable under OAC rule 3745-15-07.

In the alternative, pursuant to OAC rule 3745-31-03(A)(1)(p)(ii), the permittee of a portable or mobile emissions unit may relocate within the State of Ohio without first obtaining a PTI, providing the following criteria of OAC rule 3745-31-05(E) are met:

2.
 - a. the portable emissions unit permittee possesses an Ohio EPA PTI, PTO or registration status;
 - b. the portable emissions unit is equipped with best available technology;
 - c. the portable emissions unit owner has identified the proposed site to Ohio EPA;
 - d. Ohio EPA has determined that the portable emissions unit, at the proposed site, will have an acceptable environmental impact;
 - e. a public notice, consistent with OAC Chapter 3745-47, is published in the county where the proposed site is located;
 - f. the owner of the proposed site has provided the portable emissions unit owner with approval or equivalent declaration that it is acceptable to the site owner to move the portable emissions unit to this proposed site; and
 - g. the portable emissions unit owner has provided Ohio EPA with 15 days written notice of the relocation.

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Any site approvals issued by the Ohio EPA, pursuant to OAC rule 3745-31-03(A)(1)(p)(ii), shall be valid for no longer than 3 years and are subject to renewal.

In order for the Ohio EPA, Central District Office and the appropriate field office having jurisdiction over the new site to determine compliance with all of the above criteria, the permittee of the portable or mobile emissions unit must file a " Notice of Intent to Relocate", within the specified time frame (30 or 15 days) prior to the relocation of the emissions unit with the Ohio EPA, Central District Office and the appropriate field office having jurisdiction over the new site. Upon receipt of the notice, the Ohio EPA, Central District Office, and/or appropriate field office having jurisdiction over the new site, will evaluate the request in accordance with the above criteria.

Failure to submit said notification and to receive Ohio EPA approval prior to relocation of the emissions unit may result in fines and civil penalties.

Pursuant to OAC rule 3745-31-05(F), the Director may modify the site approval to add or delete certain portable sources or add or delete certain terms and conditions as appropriate.

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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
F002 - unpaved roadways and parking areas (These roadways and parking areas are associated with portable concrete batch plant P901.)	OAC rule 3745-31-05(A)(3) OAC rule 3745-17-08(B) OAC rule 3745-17-07(B)	5.42 TPY of particulate emissions (PE) There shall be no visible emissions from this emissions unit except for a period of time not to exceed three minutes in any hour. The permittee shall employ best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see sections A.2.b through A.2.g). In accordance with paragraph (A)(1) of OAC rule 3745-17-08, the requirements of OAC rule 3745-17-08(B) shall not apply to this emissions unit. In accordance with paragraph (B)(11)(e) of OAC rule 3745-17-07, the requirements of OAC rule 3745-17-07(B) shall not apply to this emissions unit.

2. Additional Terms and Conditions

- 2.a The unpaved roadways and parking areas that are covered by this permit and subject to the above-mentioned requirements are listed below:

all unpaved roadways and parking areas at the facility

- 2.b** The permittee shall employ best available control measures on all unpaved roadways and parking areas for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to treat the unpaved roadways and parking areas with 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.c** The needed frequencies of implementation of the control measures shall be determined by the permittee's inspections pursuant to the monitoring section of this permit. Implementation of the control measures shall not be necessary for an 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.d** Any unpaved roadway 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 flushing or wet sweeping. 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.e** 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.f** 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.g** 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.

B. Operational Restrictions

None

C. Monitoring and/or Recordkeeping Requirements

1. Except as otherwise provided in this section, the permittee shall perform inspections of the unpaved roadways and parking areas in accordance with the following frequencies:

<u>unpaved roadways and parking areas</u>	<u>minimum inspection frequency</u>
all	weekly

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 Ohio EPA, Central District Office, 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 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 limitations specified in section A.1. of these terms and conditions shall be determined in accordance with the following methods:
 - 1.a. Emission Limitation:
5.42 TPY of PE

Applicable Compliance Method:

Compliance with the annual PE limitation shall be determined using the following equation with a maximum of 3,157.3 vehicle miles traveled per year (VMT/yr):

(from AP-42 "Compilation of Air Pollutant Emission Factors," Section 13.2.2, 12/03)

$$E = k (s/12)^a (W/3)^b (365-P)/365$$

where:

E = emission factor (lb/VMT);

k = 4.9 for PM;

s = surface material silt content (10 percent estimated using Table 13.2.2-1);

W = mean vehicle weight (24.69 tons);

P = # of days with at least 0.01 inch of precipitation /yr (140 day/yr from Fig. 13.2.2-1);

a = 0.7 for PM; and

b = 0.45.

- 1.b. Emission Limitation:

There shall be no visible emissions from this emissions unit except for a period of time not to exceed three minutes in any hour.

Applicable Compliance Method:

Compliance with the visible emission limitation shall be determined in accordance with Test Method 22 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(c) of OAC rule 3745-17-03.

F. Miscellaneous Requirements

1. Notice to Relocate a Portable or Mobile Source

Pursuant to OAC rule 3745-31-03(A)(1)(p)(i), the permittee of a portable or mobile emissions unit may relocate within the State of Ohio without first obtaining a permit to install (PTI) providing the following criteria are met:

- a. the portable emissions unit is equipped with the best available control technology for such portable emissions unit;
- b. the portable emissions unit is operating pursuant to a currently effective permit to operate (PTO);
- c. the applicant has provided proper notice of intent to relocate the portable emissions unit to the Ohio EPA, Central District Office and the appropriate field office having jurisdiction over the new site, within a minimum of 30 days prior to the scheduled relocation; and
- d. in the Ohio EPA, Central District Office's and the appropriate field office's judgement, the proposed site is acceptable under OAC rule 3745-15-07.

In the alternative, pursuant to OAC rule 3745-31-03(A)(1)(p)(ii), the permittee of a portable or mobile emissions unit may relocate within the State of Ohio without first obtaining a PTI, providing the following criteria of OAC rule 3745-31-05(E) are met:

2.
 - a. the portable emissions unit permittee possesses an Ohio EPA PTI, PTO or registration status;
 - b. the portable emissions unit is equipped with best available technology;
 - c. the portable emissions unit owner has identified the proposed site to Ohio EPA;

- d. Ohio EPA has determined that the portable emissions unit, at the proposed site, will have an acceptable environmental impact;
- e. a public notice, consistent with OAC Chapter 3745-47, is published in the county where the proposed site is located;
- f. the owner of the proposed site has provided the portable emissions unit owner with approval or equivalent declaration that it is acceptable to the site owner to move the portable emissions unit to this proposed site; and
- g. the portable emissions unit owner has provided Ohio EPA with 15 days written notice of the relocation.

Any site approvals issued by the Ohio EPA, pursuant to OAC rule 3745-31-03(A)(1)(p)(ii), shall be valid for no longer than 3 years and are subject to renewal.

In order for the Ohio EPA, Central District Office and the appropriate field office having jurisdiction over the new site to determine compliance with all of the above criteria, the permittee of the portable or mobile emissions unit must file a " Notice of Intent to Relocate", within the specified time frame (30 or 15 days) prior to the relocation of the emissions unit with the Ohio EPA, Central District Office and the appropriate field office having jurisdiction over the new site. Upon receipt of the notice, the Ohio EPA, Central District Office, and/or appropriate field office having jurisdiction over the new site, will evaluate the request in accordance with the above criteria.

Failure to submit said notification and to receive Ohio EPA approval prior to relocation of the emissions unit may result in fines and civil penalties.

Pursuant to OAC rule 3745-31-05(F), the Director may modify the site approval to add or delete certain portable sources or add or delete certain terms and conditions as appropriate.

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.

<u>Operations, Property, and/or Equipment</u>		
P901 - Stephens transit-mix concrete batch plant, including material handling as follows:	cement and supplements silos	loading of transit-mix trucks
sand and aggregate transfer to elevated storage bins		
sand and aggregate transfer to conveyors	load-in of weigh hopper	

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FW SI

PTI A

Issued: 5/24/2005

Emissions Unit ID: **P901**

Applicable
Rules/Requirements

OAC rule 3745-31-05(A)(3)

OAC rule 3745-17-08(B)

OAC rule 3745-17-07(B)

OAC rule 3745-31-05(A)(3)

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PTI A

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OAC rule 3745-17-08(B)

OAC rule 3745-17-07(B)

OAC rule 3745-31-05(A)(3)

OAC rule 3745-17-11(B)

OAC rule 3745-17-07(A)

OAC rule 3745-31-05(A)(3)

OAC rule 3745-17-11(B)

OAC rule 3745-17-07(A)

	<u>Applicable Emissions Limitations/Control Measures</u>	
		the requirements of OAC rule 3745-17-07(B) shall not apply to this emissions unit.
OAC rule 3745-31-05(A)(3)	0.40 lb/hr and 0.25 TPY of fugitive emissions	0.010 lb/hr and 0.010 TPY of particulate emissions (PE)
	Visible emissions of fugitive dust from any portion of this emissions unit shall not exceed 10 percent opacity, as a three-minute average.	There shall be no visible emissions from the stacks (including the outlet of any air pollution control equipment) serving this portion of the emissions unit.
OAC rule 3745-17-11(B)	In accordance with paragraph (A)(1) of OAC rule 3745-17-08, the requirements of OAC rule 3745-17-08(B) shall not apply to this emissions unit.	The PE limitation established in this rule is less stringent than the limit established pursuant to OAC rule 3745-31-05(A)(3).
OAC rule 3745-17-07(A)	In accordance with paragraph (B)(11)(e) of OAC rule 3745-17-07, the requirements of OAC rule 3745-17-07(B) shall not apply to this emissions unit.	The visible emission limitation specified in this rule is less stringent than the limit established pursuant to OAC rule 3745-31-05(A)(3).
		0.95 lb/hr and 0.59 TPY of PE
OAC rule 3745-17-08(B)	0.40 lb/hr and 0.25 TPY of fugitive emissions	There shall be no visible emissions from the stacks (including the outlet of any air pollution control equipment) serving this portion of the emissions unit.
OAC rule 3745-17-07(B)	Visible emissions of fugitive dust from any portion of this emissions unit shall not exceed 10 percent opacity, as a three-minute average.	The PE limitation established in this rule is less stringent than the limit established pursuant to OAC rule 3745-31-05(A)(3).
	In accordance with paragraph (A)(1) of OAC rule 3745-17-08, the requirements of OAC rule 3745-17-08(B) shall not apply to this emissions unit.	The visible emission limitation specified in this rule is less stringent than the limit established pursuant to OAC rule 3745-31-05(A)(3).
	In accordance with paragraph (B)(11)(e) of OAC rule 3745-17-07,	6.96 lbs/hr and 4.35 TPY of PE from the stack (including the outlet of any air pollution

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control equipment) serving
this portion of the emissions
unit

In accordance with paragraph
(B)(11)(e) of OAC rule 3745-17-07,
the requirements of OAC rule 3745-
17-07(B) shall not apply to this
emissions unit.

2.04 lbs/hr and 1.28 TPY of
fugitive emissions

Visible emissions of fugitive
dust from any portion of this
emissions unit shall not
exceed 10 percent opacity,
as a three-minute average.

There shall be no visible
emissions from the stack
(including the outlet of any
air pollution control
equipment) serving this
portion of the emissions
unit.

The PE limitation
established in this rule is less
stringent than the limit
established pursuant to
OAC rule
3745-31-05(A)(3).

The visible emission
limitation specified in this
rule is less stringent than the
limit established pursuant to
OAC rule
3745-31-05(A)(3).

In accordance with
paragraph (A)(1) of OAC
rule 3745-17-08, the
requirements of OAC rule
3745-17-08(B) shall not
apply to this emissions unit.

2. Additional Terms and Conditions

- 2.a** Cement and cement supplement shall be transferred pneumatically to the cement and cement supplement silos. The pneumatic system shall be adequately enclosed so as to eliminate at all times visible emissions of fugitive dust. Any visible emissions of cement and/or cement supplement dust emanating from the delivery vehicle during transfer shall be cause for the immediate halt of the unloading process and the refusal of the cement and/or cement supplement load until the situation is corrected.
- 2.b** Each cement and cement supplement silo vent shall be adequately enclosed and vented to a fabric filter. The enclosure shall be sufficient so as to eliminate at all times visible emissions of fugitive dust at the point of capture.
- 2.c** The permittee shall employ the following best available control measures for weigh hoppers for the purpose of ensuring compliance with the above-mentioned applicable requirements:
- i. The weigh hoppers shall be sufficiently enclosed so as to eliminate at all times visible emissions of fugitive dust.
 - ii. The transfer of cement/cement supplement/sand/aggregate to the concrete batching weigh hoppers shall be enclosed and vented to a fabric filter. The enclosure shall be sufficient so as to eliminate at all times visible emissions of fugitive dust at the point of capture.
- 2.d** The permittee shall employ the following best available control measures for the truck-mix loading process for the purpose of ensuring compliance with the above-mentioned applicable requirements:

The permittee shall employ a fabric filter dust collection system for the purpose of controlling emissions from the truck-mix loading process. The control system shall be operated at all times that trucks are being loaded and shall be sufficient to minimize or eliminate visible emissions of fugitive dust at the point of capture.

B. Operational Restrictions

1. The maximum hourly production rate for this truck-mix concrete facility shall not exceed 120 cubic yards of concrete (240 tons) per hour.
2. The maximum annual production rate for this truck-mix concrete facility shall not exceed 150,000

cubic yards of concrete (300,000 tons) per year.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain annual records of the cubic yards or tons of concrete produced at this facility.
2. The permittee shall perform weekly checks, when the emissions unit is in operation, and when the weather conditions allow, for any visible particulate emissions from the fabric filters serving this emissions unit. No inspections are required on days the material handling operations are not in operation. The presence or absence of any visible particulate emissions shall be recorded electronically or in an operations log. If visible particulate emissions are observed, the permittee shall also note the following in the operations log:
 - a. the total duration of any visible emission incident; and
 - b. any corrective actions taken to eliminate the visible emissions.

The information above shall be kept separately for each fabric filter serving this emissions unit.

3. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible fugitive particulate emissions from each sand and/or aggregate transfer point and truck loading operation. No inspections are required on days the material handling operations are not in operation. The presence or absence of any visible emissions shall be noted in an operations log. If visible particulate emissions are observed, the permittee shall also note the following in the operations log:
 - a. whether the emissions are representative of normal operations;
 - b. if the emissions are not representative of normal operations, the cause of the visible emissions;
 - c. the total duration of any visible emission incident; and
 - d. any corrective actions taken to eliminate the visible emissions.

The information above shall be kept separately for each sand and/or aggregate transfer point and truck loading serving this emissions unit.

D. Reporting Requirements

1. The permittee shall submit annual reports that specify the total cubic yards or total tons of concrete produced at this facility. These reports shall be submitted to the Ohio EPA, Central District Office by January 31 of each year and shall cover the previous 12-month period.

2. The permittee shall submit quarterly deviation (excursion) reports which note the following:
 - a. identify all days during which any abnormal visible fugitive particulate emissions were observed from each sand and/or aggregate transfer point and truck loading serving this emissions unit;
 - b. describe any corrective actions taken to eliminate the abnormal visible fugitive particulate emissions;
 - c. identify all days during which any visible particulate emissions were observed from any fabric filter serving this emissions unit; and
 - d. describe any corrective actions taken to eliminate the visible particulate emissions.

These reports are due by the date described in Part I - General Terms and Conditions of this permit under Section A.

E. Testing Requirements

1. Compliance with the emission limitations specified in section A.1. of these terms and conditions shall be determined in accordance with the following methods:

sand and aggregate transfer to elevated storage bins

- 1.a Emission Limitation:
0.40 lb/hr and 0.25 TPY of fugitive emissions

Applicable Compliance Method:

Compliance with the above emission limitation shall be determined using the appropriate emission factors from AP-42 "Compilation of Air Pollutant Emission Factors," Table 11.12-3, dated 10/01 (0.0015 lb/yd³ for sand, 0.0064 lb/yd³ for aggregate) and the maximum hourly and annual sand and aggregate transfer rates for the facility (50 yd³/hr and 62,500 yd³/yr, respectively).

- 1.b Emission Limitation:
Visible emissions of fugitive dust from any portion of this emissions unit shall not exceed 10 percent opacity, as a three-minute average.

Applicable Compliance Method:

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, 1996.

sand and aggregate transfer to conveyors

- 1.c Emission Limitation:
0.40 lb/hr and 0.25 TPY of fugitive emissions

Applicable Compliance Method:

Compliance with the above emission limitation shall be determined using the appropriate emission factors from AP-42 "Compilation of Air Pollutant Emission Factors," Table 11.12-3, dated 10/01 (0.0015 lb/yd³ for sand, 0.0064 lb/yd³ for aggregate) and the maximum hourly and annual sand and aggregate transfer rates for the facility (50 yd³/hr and 62,500 yd³/yr, respectively).

- 1.d Emission Limitation:
Visible emissions of fugitive dust from any portion of this emissions unit shall not exceed 10 percent opacity, as a three-minute average.

Applicable Compliance Method:

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, 1996.

cement and supplements silos

- 1.e Emission Limitation:
0.010 lb/hr and 0.010 TPY of PE

Applicable Compliance Method:

Compliance with the above emission limitation shall be determined using the appropriate emission factors from AP-42 "Compilation of Air Pollutant Emission Factors," Table 11.12-3, dated 10/01 (0.0002 lb/yd³ for cement, 0.0003 lb/yd³ for supplements) and the maximum hourly and annual silo loading rates for the facility (12.5 yd³/hr and 25,000 yd³/yr).

- 1.f Emission Limitation:
There shall be no visible emissions from the stacks (including the outlet of any air pollution control equipment) serving this portion of the emissions unit.

Applicable Compliance Method:

Compliance with the visible emission limitation shall be determined in accordance with Test Method 22 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 1996.

load-in of weigh hopper

- 1.g Emission Limitation:
0.95 lb/hr and 0.59 TPY of PE

Applicable Compliance Method:

Compliance with the above emission limitation shall be determined using the appropriate emission factors from AP-42 "Compilation of Air Pollutant Emission Factors," Table 11.12-3, dated 10/01 (0.0079 lb/yd³) and the maximum hourly and annual weigh hopper loading rates for the facility (12.5 yd³/hr and 25,000 yd³/yr).

- 1.h Emission Limitation:
There shall be no visible emissions from the stacks (including the outlet of any air pollution control equipment) serving this portion of the emissions unit.

Applicable Compliance Method:

Compliance with the visible emission limitation shall be determined in accordance with Test Method 22 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 1996.

loading of transit-mix trucks

- 1.i Emission Limitation:
6.96 lbs/hr and 4.35 TPY of PE from the stack serving this portion of the emissions unit

Applicable Compliance Method:

Compliance with the above emission limitation shall be determined using the appropriate emission factors from AP-42 "Compilation of Air Pollutant Emission Factors," Table 11.12-3, dated 10/01 (0.058 lb/yd³) and the maximum hourly and annual truck loading rates for the facility (120 yd³/hr and 150,000 yd³/yr).

- 1.j Emission Limitation:
2.04 lbs/hr and 1.28 TPY of fugitive emissions

Applicable Compliance Method:

Compliance with the above emission limitation shall be determined using the appropriate emission factors from AP-42 "Compilation of Air Pollutant Emission Factors," Table 11.12-3, dated 10/01 (0.17 lb/yd³) with an estimated capture efficiency of 90 percent and the maximum hourly and annual truck loading rates for the facility (120 yd³/hr and 150,000 yd³/yr).

- 1.k Emission Limitation:
There shall be no visible emissions from the stacks (including the outlet of any air pollution control equipment) serving this portion of the emissions unit.

Applicable Compliance Method:

Compliance with the visible emission limitation shall be determined in accordance with Test Method 22 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 1996.

- 1.l Emission Limitation:
Visible emissions of fugitive dust from any portion of this emissions unit shall not exceed 10 percent opacity, as a three-minute average.

Applicable Compliance Method:

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, 1996.

F. Miscellaneous Requirements

1. Notice to Relocate a Portable or Mobile Source

Pursuant to OAC rule 3745-31-03(A)(1)(p)(i), the permittee of a portable or mobile emissions unit may relocate within the State of Ohio without first obtaining a permit to install (PTI) providing the following criteria are met:

- a. the portable emissions unit is equipped with the best available control technology for such portable emissions unit;
- b. the portable emissions unit is operating pursuant to a currently effective permit to operate (PTO);
- c. the applicant has provided proper notice of intent to relocate the portable emissions unit to the Ohio EPA, Central District Office and the appropriate field office having jurisdiction over the new site, within a minimum of 30 days prior to the scheduled relocation; and
- d. in the Ohio EPA, Central District Office's and the appropriate field office's judgement, the proposed site is acceptable under OAC rule 3745-15-07.

In the alternative, pursuant to OAC rule 3745-31-03(A)(1)(p)(ii), the permittee of a portable or mobile emissions unit may relocate within the State of Ohio without first obtaining a PTI, providing the following criteria of OAC rule 3745-31-05(E) are met:

2.
 - a. the portable emissions unit permittee possesses an Ohio EPA PTI, PTO or registration status;
 - b. the portable emissions unit is equipped with best available technology;
 - c. the portable emissions unit owner has identified the proposed site to Ohio EPA;
 - d. Ohio EPA has determined that the portable emissions unit, at the proposed site, will have an acceptable environmental impact;
 - e. a public notice, consistent with OAC Chapter 3745-47, is published in the county where the proposed site is located;
 - f. the owner of the proposed site has provided the portable emissions unit owner with approval or equivalent declaration that it is acceptable to the site owner to move the portable emissions unit to this proposed site; and
 - g. the portable emissions unit owner has provided Ohio EPA with 15 days written notice of

the relocation.

Any site approvals issued by the Ohio EPA, pursuant to OAC rule 3745-31-03(A)(1)(p)(ii), shall be valid for no longer than 3 years and are subject to renewal.

In order for the Ohio EPA, Central District Office and the appropriate field office having jurisdiction over the new site to determine compliance with all of the above criteria, the permittee of the portable or mobile emissions unit must file a " Notice of Intent to Relocate", within the specified time frame (30 or 15 days) prior to the relocation of the emissions unit with the Ohio EPA, Central District Office and the appropriate field office having jurisdiction over the new site. Upon receipt of the notice, the Ohio EPA, Central District Office, and/or appropriate field office having jurisdiction over the new site, will evaluate the request in accordance with the above criteria.

Failure to submit said notification and to receive Ohio EPA approval prior to relocation of the emissions unit may result in fines and civil penalties.

Pursuant to OAC rule 3745-31-05(F), the Director may modify the site approval to add or delete certain portable sources or add or delete certain terms and conditions as appropriate.