



State of Ohio Environmental Protection Agency

**RE: FINAL PERMIT TO INSTALL  
TRUMBULL 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: 02-16799**

**DATE: 9/5/2002**

Superior Walls of Ohio Inc  
George Schuler  
1401 South Pine Ave  
Warren, OH 44483

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  
236 East Town Street, Room 300  
Columbus, Ohio 43215

Very truly yours,

Michael W. Ahern, Supervisor  
Field Operations and Permit Section  
Division of Air Pollution Control

cc: USEPA

NEDO



STATE OF OHIO ENVIRONMENTAL PROTECTION AGENCY

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**Permit To Install  
Terms and Conditions**

**Issue Date: 9/5/2002  
Effective Date: 9/5/2002**

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**FINAL PERMIT TO INSTALL 02-16799**

Application Number: 02-16799  
APS Premise Number: 0278080778  
Permit Fee: **\$600**  
Name of Facility: Superior Walls of Ohio Inc  
Person to Contact: George Schuler  
Address: 1401 South Pine Ave  
Warren, OH 44483

Location of proposed air contaminant source(s) [emissions unit(s)]:

**1401 South Pine Ave  
Warren, Ohio**

Description of proposed emissions unit(s):

**Roadways, storage piles, concrete batch plant.**

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 Related to Monitoring and Recordkeeping 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 application must be made to the Director for the installation or modification of any other emissions unit(s).

**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 thirty (30) 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>
PE	11

**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 - Roadways and parking areas	OAC rule 3745-31-05 (A)(3)	<p>Particulate emissions (PE) from roadways and parking areas shall not exceed 0.59 TPY</p> <p>There shall be no visible particulate emissions except for 3 minutes during any 60-minute period</p> <p>The permittee shall employ best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust.</p> <p>See Sections A.2.b to A.2.i.</p>
	OAC rule 3745-17-07 (B)(4)	<p>The visible particulate emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05 (A)(3).</p>

**2. Additional Terms and Conditions**

- 2.a The paved roadways and parking areas that are covered by this permit and subject to the requirements of OAC rule 3745-17-07 is listed below:

Paved roadways: All paved roadways

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Emissions Unit ID: **F001**

Paved parking areas: All paved parking areas

- 2.b** The unpaved roadways and parking areas that are covered by this permit and subject to the requirements of OAC rules 3745-17-07 and 3745-17-08 are listed below:

Unpaved roadways: All unpaved roadways

Unpaved parking areas: None

- 2.c** 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 sweeping at sufficient treatment frequencies to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- 2.d** 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 oil as described in section B.1 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 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.f** 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 with the control measure(s) specified above for paved surfaces. 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 the visible emission limitation for paved roadways and parking areas.

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**Issued**

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**Emissions Unit ID: F001**

Emissions Unit ID: F001

- 2.g 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.h 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.i 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**

- 1. When a dust suppressant is used for controlling fugitive dust from the unpaved road segments and parking areas, the following restrictions shall be followed:
  - a. The permittee shall certify or possess certification that all dust suppressants used to control fugitive dust meet the PCB limitations set forth in 40 CFR 761, and that there are no listed hazardous wastes or characteristic hazardous wastes as set forth in 40 CFR 261.
  - b. The permittee shall not apply used oil as defined by OAC rule 3745-279-01(A)(12) as a dust suppressant.
  - c. The dust suppressant shall be applied in such a manner as to prevent pollution of waters of the State as required by the Ohio Revised Code, section 6111.

**C. Monitoring and/or Record keeping Requirements**

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

<u>paved roadways and parking areas</u>	<u>minimum inspection frequency</u>
All paved roadways and parking areas	Daily
<u>unpaved roadways and parking areas</u>	<u>minimum inspection frequency</u>
All unpaved roadways and parking areas	Daily

- 2. The purpose of the inspections is to determine the need for implementing the above-mentioned control measures. The inspections shall be performed during representative, normal traffic

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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

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**Emissions Unit ID: F001**

General Terms and Conditions of this permit.

## E. Testing Requirements

1. Emission Limitation  
0.59 ton per year of particulate emissions

### Applicable Compliance Method

Compliance shall be determined by using the following equation:

For unpaved roadways and parking areas:

$$E \text{ (lb/VMT)} = [k(s/12)^a(W/3)^b] / [(M_{\text{dry}} / 0.2)^c] * [(365-p) / 365]$$

$$E \text{ (tons/year)} = E \text{ (lb/VMT)}(\text{VMT/yr})(1 \text{ ton}/2000 \text{ lb})$$

Where:

- E = particulate emissions, in ton per year
- a = constant taken from AP-42, Section 13.2.2 Unpaved Roads, Table 13.2.2-2
- b = constant taken from AP-42, Section 13.2.2 Unpaved Roads, Table 13.2.2-2 c
- c = constant taken from AP-42, Section 13.2.2 Unpaved Roads, Table 13.2.2-2
- k = constant taken from AP-42, Section 13.2.2 Unpaved Roads, Table 13.2.2-2
- s = surface mineral silt content (%), taken from AP-42, Section 13.2.2 Unpaved Roads, Table 13.2.2-1
- W = mean vehicle weight (tons), taken from AP-42, Section 13.2.2 Unpaved Roads, Table 13.2.2-3
- M<sub>dry</sub> = surface material moisture content under dry, uncontrolled conditions, %, taken from AP-42, Section 13.2.2 Unpaved Roads, Table 13.2.2-3
- p = number of days with at least 0.254 mm (0.01 in) of precipitation per year, taken from AP-42, Section 13.2.2 Unpaved Roads, Figure 13.2.2-1
- VMT = Vehicle Miles Traveled per year

For paved roadways and parking areas:

$$E \text{ (lb/VMT)} = k(sL/2)^{0.65}(W/3)^{1.5}$$

$$E \text{ (tons/year)} = E \text{ (lb/VMT)}(\text{VMT/year})(1 \text{ ton}/2000 \text{ lb})$$

Where:

- E = particulate emissions, in tons per year
- k = base emission factor for particle size range and units of interest taken from AP-42, Section 13.2.1.3, Paved Roads, Table 13.2-1.1
- sL = road surface silt loading (grams per square meter) (g/m<sup>2</sup>) taken from AP-42, Section 13.2.1.3, Paved Roads, Table 13.2.1-3
- W = average weight (tons) of the vehicles traveling the road

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VMT = Vehicle Miles Traveled/year

2. Compliance with the emission limitation for the paved and unpaved roadways and parking areas 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," as such Appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(d) of OAC rule 3745-17-03.

**F. Miscellaneous Requirements**

None

**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 - Material handling	OAC rule 3745-31-05(A)(3)	<p>Particulate emissions (PE) from materials handling shall not exceed 1.73 TPY</p> <p>There shall be no visible emissions except for one minute in a sixty minute period.</p> <p>The permittee shall employ best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust.</p> <p>See Sections A.2.b through A.2.d</p>
	OAC rule 3745-17-07 (B)(1)	<p>The fugitive dust emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).</p>

**2. Additional Terms and Conditions**

- 2.a The material handling operation(s) that are covered by this permit and subject to the above-mentioned requirements are listed below:

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Truck unloading of sand and aggregate into underground conveyor.

- 2.b** The permittee shall employ best available control measures for the above-identified material handling operation(s) for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee’s permit application, the permittee has committed to perform the following control measure(s) to ensure compliance:

material handling operation(s)

control measure(s)

Truck unloading of sand and aggregate into underground conveyor.	Treat with water and/or any other suitable dust suppression chemicals to control dust emissions as needed during sand and aggregate handling and truck unloading operations by minimizing drop height distance from truck bed
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Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

- 2.c** For each material handling operation that is not adequately enclosed, the above-identified control measure(s) shall be implemented if the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the control measure(s) is (are) necessary to ensure compliance with the above-mentioned applicable requirements. Any required implementation of the control measure(s) shall continue during the operation of the material handling operation(s) until further observation confirms that use of the control measure(s) is unnecessary.
- 2.d** Implementation of the above-mentioned control measure(s) in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the requirements of OAC rules 3745-17-08 and 3745-31-05.

**B. Operational Restrictions**

None

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

- 1. Except as otherwise provided in this section, for material handling operations that are not

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Emissions Unit ID: **F002**

adequately enclosed, the permittee shall perform inspections of such operations in accordance with the following minimum frequencies:

<u>material handling operation(s)</u>	<u>minimum inspection frequency</u>
Truck unloading of sand and aggregate into underground conveyor.	Daily

2. The above-mentioned inspections shall be performed during representative, normal operating conditions.
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;
  - b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measure(s):
  - c. the dates the control measure(s) was (were) implemented; and
  - d. on a calendar quarter basis, the total number of days the control measure(s) was (were) implemented.

The information in 4.d. shall be kept separately for each material handling operation identified above, and shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

#### **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; and
  - b. each instance when a control measure, that was to be performed 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.

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Emissions Unit ID: **F002**

### E. Testing Requirements

1. Emission Limitation  
1.73 ton per year of particulate emissions

Applicable Compliance Method

Compliance shall be determined by using the following equation:

$$E \text{ (tons/year)} = EF * PC * 8760 \text{ hr/yr} * 1 \text{ ton/2000 lbs}$$

Where: EF = emission factor taken from AP-42 Section 11.12, Concrete Batching, Table 11.12-4 (Central Mix)  
PC = Plant Capacity (50 tons/hr)

2. Compliance with the emission limitation for the paved and unpaved roadways and parking areas 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," as such Appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(d) of OAC rule 3745-17-03.

### F. Miscellaneous Requirements

None

**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>
P901 - Concrete Batch Plant	Weigh hopper loading including sand, aggregate and cement.	OAC rule 3745-31-05(A)(3)
	Central mix loading	
Transfer of aggregate and sand to elevated storage with partial enclosure control.		OAC rule 3745-17-07(B) OAC rule 3745-17-08(B)
Cement delivery and supplement delivery to silo with fabric filter control.		OAC rule 3745-17-07(A) OAC rule 3745-17-11

OAC rule 3745-07(A)  
OAC rule 3745-17-11

Applicable Emissions  
Limitations/Control Measures

Particulate emissions (PE) from this emissions unit shall not exceed 1.98 lb/hr and 8.68 TPY from the cement silo, weigh hopper and central mix.

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

OAC rule 3745-17-07(B)  
OAC rule 3745-17-08(B)

Visible particulate emissions from any stack serving this emissions unit shall not exceed 10% opacity, as a six-minute average.

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

See sections A.2.a through A.2.g for best available control measure requirements.

The visible emission limitation and control measure(s) established in these rules are less stringent than that established in OAC rule 3745-31-05(A)(3).

The visible and particulate emission limitations established in these rules are less stringent than that established in OAC rule 3745-31-05(A)(3).

The visible and particulate emission limitations specified in these rules are less stringent than that established in OAC rule 3745-31-05(A)(3).

## 2. Additional Terms and Conditions

- 2.a** The permittee shall employ the following best available control measures for the above-identified cement silo for the purpose of ensuring compliance with the above-mentioned applicable requirements:
- i. Cement shall be transferred pneumatically to the cement silo(s). The pneumatic system shall be adequately enclosed so as to eliminate at all times visible emissions of fugitive dust. Any visible emissions of cement 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 load until the situation is corrected.
  - ii. The cement silo vent(s) 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.b** The permittee shall employ the following best available control measures for the above-identified weigh hopper(s) for the purpose of ensuring compliance with the above-mentioned applicable requirements:
- The weigh hopper(s) shall be sufficiently enclosed so as to minimize or eliminate at all times visible emissions of fugitive dust.
- 2.c** The permittee shall ensure that sand and aggregate loaded into the elevated storage bins contains sufficient moisture so as to minimize or eliminate visible emissions of fugitive dust.
- 2.d** The permittee shall ensure that all dust collection systems in use at the facility are operated with sufficient air volume to minimize or eliminate visible particulate emissions of fugitive dust at the point of capture to the extent possible with good engineering design.
- 2.e** During the loading of the aggregate conveyor or storage bins, the drop height of the conveyor shall be minimized in order to minimize or eliminate the visible emissions of fugitive dust
- 2.f** The hourly and annual particulate emission limitations specified above are based upon the emissions unit's potential to emit. Therefore, no hourly or annual records are required to be maintained to demonstrate compliance with these limits.

## B. Operational Restrictions

None

**C. Monitoring and/or Record Keeping Requirements**

1. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible emissions from any stack (outlet of any control equipment) serving this emissions unit and for any visible fugitive dust emissions from this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
  - a. the color of the emissions;
  - b. whether the emissions are representative of normal operations;
  - c. if the emissions are not representative of normal operations, the cause of the abnormal visible emissions;
  - d. the total duration of any abnormal visible emission incident; and
  - e. any corrective actions taken to eliminate the abnormal visible emissions.

**D. Reporting Requirements**

1. The permittee shall submit semiannual written reports that (a) identify all days during which any abnormal visible particulate emissions were observed from the stack serving this emissions unit or any abnormal visible fugitive dust emissions were observed from this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions or visible fugitive dust emissions. These reports shall be submitted to the Northeast District Office of Ohio EPA (NEDO) by January 31 and July 31 of each year and shall cover the previous six-month period.

**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:

- a Emission Limitations:  
Particulate emissions shall not exceed 1.98 lbs per hour and 8.68 tons per year

Applicable Compliance Method:

Compliance with the above hourly particulate emission limitation shall be determined by the use of emission factors (EFs) from AP-42, Section 11.12, Table 11.12-4 (Central Mix), Fifth Edition, dated 10/2001 and the following equation:

$$E \text{ (lb/hr)} = PR * EF$$

Where: E (lb/hr) = emissions from the batch plant operation  
PR = process rate in yd<sup>3</sup>/hr  
EF = emission factor taken from AP-42, Section 11.12, Table 11.12-4 (lb/yd<sup>3</sup>)

The annual emission limitation is calculated by multiplying the hourly emission by 8,760 hrs/yr and dividing by 2,000 lbs/ton.

- b Emission Limitations:  
Visible particulate emissions from any stack serving this emissions unit shall not exceed 10 % opacity, as a six-minute average.

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

Applicable Compliance Method:

Compliance with the above visible emission limitations shall be determined by Method 9 of 40 CFR, Part 60, Appendix A. However, compliance with the visible emission limitation for fugitive dust shall be determined in accordance with the modification specified in OAC rule 3745-17-03(B)(3)(a).

## F. Miscellaneous Requirements

None