

Facility ID: 1677011013 Issuance type: Final State Permit To Operate

This version of facility specific terms and conditions was converted from a database format to an HTML file during an upgrade of the Ohio EPA, Division of Air Pollution Control's permitting software. Every attempt has been made to convert the terms and conditions to look and substantively conform to the permit issued or being drafted in STARS. However, the format of the terms may vary slightly from the original. In addition, although it is not expected, there is a slight possibility that a term and condition may have been inadvertently "left out" of this reproduction during the conversion process. Therefore, if this version is to be used as a starting point in drafting a new version of a permit, it is imperative that the entire set of terms and conditions be reviewed to ensure they substantively mimic the issued permit. The official version of any permit issued final by Ohio EPA is kept in the Agency's Legal section. The Legal section may be contacted at (614) 644-3037.

In addition to the terms and conditions, hyperlinks have been inserted into the document so you may more readily access the section of the document you wish to review.

Finally, the term language under "Part II" and before "A. Applicable Emissions Limitations..." has been added to aid in document conversion, and was not part of the original issued permit.

[Go to Part II for Emissions Unit F005](#)  
[Go to Part II for Emissions Unit F006](#)  
[Go to Part II for Emissions Unit P901](#)

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Facility ID: 1677011013 Emissions Unit ID: F005 Issuance type: Final State Permit To Operate

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**Part II - Special Terms and Conditions**

This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).

1. For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.
  - (a) None.
2. For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.
  - (a) None.

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

1. The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may 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>
portable concrete batch plant--sand and aggregate material storage piles: load-in and load-out of storage piles (see section A.2.a for identification of storage piles)	OAC rule 3745-31-05 (PTI 16-1883)	1.0 tpy of particulates  no visible particulate emissions except for one minute in any hour  best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see sections A.2.b, A.2.c and A.2.f)
portable concrete batch plant--sand and aggregate material storage piles: wind erosion from storage piles (see section A.2.a for identification of storage piles)	OAC rule 3745-31-05 (PTI 16-1883)	no visible emissions except for one minute in any hour  best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see sections A.2.d through A.2.f)  less stringent than the above-mentioned visible emission limitation
portable concrete batch plant--sand and aggregate material storage piles: load-in and load-out of storage piles, and wind erosion from storage piles	OAC rule 3745-17-07(B)(6)	less stringent than the above-mentioned control measure requirements
	OAC rule 3745-17-08(B), (B)(6)	

**2. Additional Terms and Conditions**

- (a) The storage piles that are covered by this permit and subject to the above-mentioned requirements are listed below:
  - one sand pile
  - two limestone piles

The permittee shall employ best available control measures on all load-in and load-out operations associated with the storage piles for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to using wind guard - block enclosures, and reducing drop height of front-end loader buckets to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

The above-mentioned control measure(s) shall be employed for each load-in and load-out operation of each storage pile if the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the control measure(s) are necessary to ensure compliance with the above-mentioned applicable requirements. Any required implementation of the control measure(s) shall continue during any such operation until further observation confirms that use of the measure(s) is

unnecessary.

The permittee shall employ best available control measures for wind erosion from the surfaces of all storage piles for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to maintenance of as low of a pile height as possible to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

The above-mentioned control measure(s) shall be employed for wind erosion from each pile if the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the control measure(s) are necessary to ensure compliance with the above-mentioned applicable requirements. Implementation of the control measure(s) shall not be necessary for a storage pile that is covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements.

Implementation of the above-mentioned control measures in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the requirements of OAC rules 3745-17-08 and 3745-31-05.

**B. Operational Restrictions**

1. None

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

1. Except as otherwise provided in this section, the permittee shall perform inspections of each load-in operation at each storage pile on a daily basis.
2. Except as otherwise provided in this section, the permittee shall perform inspections of each load-out operation at each storage pile on a daily basis.
3. Except as otherwise provided in this section, the permittee shall perform inspections of the wind erosion from pile surfaces associated with each storage pile on a daily basis.
4. No inspection shall be necessary for wind erosion from the surface of a storage pile when the pile is covered with snow and/or ice and for any storage pile activity if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements. Any required inspection that is not performed due to any of the above identified events shall be performed as soon as such event(s) has (have) ended, except if the next required inspection is within one week.
5. The purpose of the inspections is to determine the need for implementing the control measures specified in this permit for load-in and load-out of a storage pile, and wind erosion from the surface of a storage pile. The inspections shall be performed during representative, normal storage pile operating conditions.
6. The permittee 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.
7. 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 section C. 7. 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
  - 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 requirements specified in Part I - General Term and Condition 3 of this permit.

**E. Testing Requirements**

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

1.0 tpy of particulates

Applicable Compliance Method:

Based on application data, maximum hourly load-in and load-out rates, mean wind speed, and material moisture content for each of the sand and aggregate material storage piles are listed below, along with the appropriate uncontrolled particulate emission factor for aggregate handling and storage piles from the AP-42, 5th edition, Chapter 13, section 13.2.4 (1/95), equation (1). The emission factors are calculated as follows:

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

where:

E = emission factor (lb/ton);  
 k = particle size multiplier (dimensionless) = 0.74 for total suspended particulates;  
 U = mean wind speed (miles per hour) = 9.9; and  
 M = material moisture content (%) = 5 for concrete sand; 0.5 for limestone;

therefore:

E = 0.0016 lb/ton of sand; and  
 E = 0.04 lb/ton of limestone.

Compliance shall be determined by taking the annual load-in/load-out amount (in tons) as required in Part II of emissions unit P901, section C.5 of the terms and conditions and multiplying this amount by the following equation:

$$\text{tpy of particulates} = (\text{sand} \times 2 \times 0.0016 \text{ lb/ton}) + (\text{limestone} \times 4 \times 0.04 \text{ lb/ton}) / 2000 \text{ lbs/ton}$$

where:

S = annual amount of sand employed, in tons;  
 2 = conversion factor to account for load-in and load-out;  
 L = annual amount of limestone employed, in tons; and  
 4 = conversion factor to account for load-in and load-out of two piles.

2. Emission Limitation:

no visible particulate emissions

Applicable Compliance Method:

Compliance with the visible emission limitations for the storage piles identified above shall be determined in accordance with Test Method 22 as set forth in "Appendix on Test Methods" in 40 CFR Part 60 ("Standards of Performance for New Stationary Sources"), 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. None

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**Part II - Special Terms and Conditions**

This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).

- 1. For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.
  - (a) None.
- 2. For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.
  - (a) None.

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

- 1. The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may 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>
portable concrete batch plant--unpaved roadways and parking areas (see section A.2.b)	OAC rule 3745-31-05 (PTI 16-1883)	2.52 tpy of particulates  no visible particulate emissions except for 3 minutes during any 60-minute period  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)

less stringent than the above-mentioned visible emission limitation

OAC rule 3745-17-07(B)(5)

less stringent than the above-mentioned control measure requirements

OAC rule 3745-17-08(B)

**2. Additional Terms and Conditions**

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

unpaved roadways: access drive to portable concrete batch plant

unpaved parking areas: employee parking area

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.

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.

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 appropriate dust control measures 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 a visible emission limitation of no visible particulate emissions except for one minute during any 60-minute period.

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.

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.

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.

The permittee shall not employ used oil as a dust suppressant in accordance with OAC rule 3745-279-82.

**B. Operational Restrictions**

- 1. A maximum speed limit of ten (10) miles per hour for vehicular traffic shall be posted and enforced on the roadways and parking areas of this facility.

**C. Monitoring and/or Record Keeping 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:
  - a. all unpaved roadways shall be inspected daily; and
  - b. all unpaved parking areas shall be inspected daily.
- 2. The purpose of the inspections is to determine the need for implementing the above-mentioned control measures. The inspections shall be performed during representative, normal traffic conditions. No inspection shall be necessary for a roadway or parking area that is covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements. Any required inspection that is not performed due to any of the above-identified events shall be performed as soon as such event(s) has (have) ended, except if the next required inspection is within one week.
- 3. The permittee 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 section C.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 requirements specified in Part I - General Term and Condition 3 of this permit.

**E. Testing Requirements**

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

2.52 tpy of particulates

Applicable Compliance Method:

Based on application data, surface type, silt content, mean vehicle weight, and total vehicle miles traveled are listed below, along with the appropriate uncontrolled particulate emission factor for unpaved surfaces from the AP-42, 5th edition, Chapter 13, section 13.2.2 (9/98), equation (1). The emission factor is calculated as follows:

$$E = k \times (s/12)^a \times (w/3)^b / (M/0.2)^c$$

where:

E = size-specific emission factor (lbs/vehicle miles traveled [VMT]);

k = 10;

a = 0.8;

b = 0.5;

c = 0.4;

s = surface material silt content (%) = 2.5;

w = mean vehicle weight (tons) = 20;

M = surface material moisture content (%) = 0.03 (worst case from Table 13.2.2-3); and  
VMT = 320 per year;

therefore;

$$E = 15.72 \text{ lbs/VMT.}$$

Compliance shall be determined by multiplying the size-specific emission factor by the VMT, and dividing by 2,000 lbs/ton, resulting in an emission rate of 2.52 tpy.

2. Emission Limitation:

no visible particulate emissions

Applicable Compliance Method:

Compliance with the emission limitation for the 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)(c) of OAC rule 3745-17-03.

**F. Miscellaneous Requirements**

1. None

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Facility ID: 1677011013 Emissions Unit ID: P901 Issuance type: Final State Permit To Operate

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**Part II - Special Terms and Conditions**

This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).

1. For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.
  - (a) None.
2. For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.

- (a) None.

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

- 1. The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may 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>
Rex mobile 5 portable concrete batch plant	OAC rule 3745-31-05 (PTI 16-1883)	1.15 lbs/hr of particulates 0.35 tpy of particulates
transfer of sand and aggregate to elevated bins	OAC rule 3745-17-07(B)(1)	See A.2.a below.
	OAC rule 3745-17-07(B)(1)	See A.2.a below.
cement silo	OAC rule 3745-17-08(B)	See A.2.b through A.2.d below.
	OAC rule 3745-17-07(B)(1)	See A.2.a below.
weigh hopper loading of cement, sand and aggregate	OAC rule 3745-17-08(B)	See A.2.b through A.2.e below.
	OAC rule 3745-17-08(B)(3)(b)	See A.2.f below.
	OAC rule 3745-17-07(B)(1)	See A.2.a below.
loading of transit-mix truck	OAC rule 3745-17-08(B)	See A.2.h below.
	OAC rule 3745-17-08(B)(3)(b)	See A.2.f below.
	OAC rule 3745-17-11	See A.2.g below.
	OAC rule 3745-17-07(B)(1)	See A.2.a below.
	OAC rule 3745-17-08(B)	See A.2.i below.
	OAC rule 3745-17-11	See A.2.g below.

**2. Additional Terms and Conditions**

- (a) The visible particulate emissions from this emissions unit shall not exceed 20% opacity as a 3-minute average as fugitive emissions.  
The permittee shall employ reasonably 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:

- i. The drop height of the front-end bucket shall be minimized to the extent possible in order to minimize or eliminate visible emissions of fugitive dust from the conveyor loading area.
- ii. The sand and aggregate loaded into the elevated bins shall have a moisture content sufficient to minimize or eliminate visible emissions of fugitive dust from the conveyor and transfer point to bins.

Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

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. 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 rule 3745-17-08.

The permittee shall employ the following reasonably available control measures for the above-identified cement silo loading operation(s) for the purpose of ensuring compliance with the above-mentioned applicable requirements:

- i. Cement shall be transferred pneumatically to silo no. 1. The pneumatic system shall be adequately enclosed so as to eliminate visible emissions of fugitive dust at all times. Any visible emissions of cement dusts 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 shall be adequately enclosed and vented to baghouse no. 1. The enclosure shall be sufficient to minimize visible emissions of fugitive dust at the point of capture at all times. Emissions from the outlet of the control equipment serving this emissions unit shall achieve an outlet emission rate of not greater than 0.030 grain of particulate per dry standard cubic foot of exhaust gases or there shall be no visible emissions from the outlet, whichever is less stringent.

The particulate emission limitation based on OAC rule 3745-17-11 is less stringent than the particulate emission limitation established pursuant to the best available technology requirements specified in OAC rule 3734-31-05.

The permittee shall employ the following reasonably available control measures for the above-identified concrete batching operation(s) for the purpose of ensuring compliance with the above-mentioned applicable requirements:

i. The concrete batching weigh hopper shall be adequately enclosed and the enclosure shall be sufficient to eliminate visible emissions of fugitive dust at all times.

ii. The sand/aggregate weigh hopper transfer conveyor discharge to the concrete batching weigh hopper shall be enclosed and vented to the cement silo. The enclosure shall be sufficient to eliminate visible emissions of fugitive dust at the point of capture at all times.

The permittee shall employ the following reasonably available control measures for the above-identified mix-truck loading operation(s) for the purpose of ensuring compliance with the above-mentioned applicable requirements:

i. The point at which the transit mix truck is loaded shall be adequately enclosed and the drop height of the cement/sand/aggregate mixture into the truck shall be minimized or controlled by either a telescopic or hooded chute (shroud) so as to minimize or eliminate visible emissions of fugitive dust from this operation.

**B. Operational Restrictions**

1. The maximum annual operating hours for this emissions unit shall not exceed 600.
2. The permittee shall regularly maintain the baghouse and fabric filter control equipment associated with this emissions unit in accordance with the manufacturer's recommendations, instructions, and operating manual(s). Maintenance shall include regular repair and/or replacement of filters so as to maximize the particulate collection efficiency of this dust control system.

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

1. Except as otherwise provided in this section, for material handling operations that are not adequately enclosed, the permittee shall perform inspections of such operations on a daily basis.
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 operation 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 section C.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.

5. The permittee shall maintain records of the amounts of sand, aggregate, and cement processed at this plant so as to be able to determine the actual amount of fugitive dust emissions generated over any annual period. The permittee shall also maintain records of the gross yards (or tonnage) of concrete produced and transported from the facility on a monthly basis for the purpose of determining the annual amount of fugitive dust emitted from this emissions unit. These records shall be kept at the facility and shall be made available for review by Ohio EPA personnel upon request.
6. The permittee shall inspect the baghouse fabric filter control system serving both the cement silo and the batching operation at least once per week for the purpose of determining the need to maintain, repair, and/or replace any of the filters in the system or any portion of the system electrical controls. A broken or severely worn filter, or worn electrical control components, shall be replaced/repared immediately so as to prevent unnecessary emissions of fugitive dust from this emissions unit. Records of inspections, repairs, and maintenance to this emissions control system shall be noted in a facility log.
7. The permittee shall maintain monthly records of the operating hours for this emissions unit.
8. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack(s) serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
  - a. the color of the emissions;
  - b. whether the emissions are representative of normal operations;
  - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
  - d. the total duration of any visible emission incident; and
  - e. any corrective actions taken to eliminate the visible emissions.
9. The permittee shall inspect the shroud and chute used to load the sand/aggregate/cement mixture into the concrete mix-trucks on a weekly basis to determine if these devices adequately minimize fugitive dust emissions which arise during the loading of the mix-trucks. If either the shroud or the chute is excessively worn, they should be replaced immediately so as to minimize fugitive dust emissions from this emissions unit. The results of this inspection and any maintenance which is performed as a result of this inspection should be noted in a facility log.

**D. Reporting Requirements**

1. The permittee shall submit annual reports of the total operating hours for this emissions unit. These reports shall be submitted by January 31 of each year to the Director (Akron Regional Air Quality Management District).
2. The permittee shall submit semiannual written reports which (a) identify all days during which any visible particulate emissions were observed from the stack(s) serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (Akron Regional Air Quality Management District) by January 31 and July 31 of each year and shall cover the previous 6-month period.
3. The permittee shall submit deviation reports that identify any of the following occurrences:
  - a. each day or week during which an inspection was not performed by the required frequency; and
  - b. each instance when a control measure, repair, or maintenance function that was to be performed as a result of an inspection, was not implemented.
4. The deviation reports shall be submitted in accordance with the requirements specified in Part I - General Term and Condition 3 of this permit.

**E. Testing Requirements**

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

1.15 lbs/hr of particulates

Applicable Compliance Method:

Based on application data, a maximum hourly design production capacity for each of the four concrete plant operations is listed below, along with the appropriate uncontrolled particulate emission factor from the AP-42, 5th edition, Table 11.12-2 (1/95).

Compliance shall be demonstrated by totaling the following products:

- i. Sand and aggregate transfer to elevated bin:

The maximum hourly production rate of 60 tons/hr is multiplied by the AP-42 particulate emission factor of 0.029 lb/ton. The resulting uncontrolled emissions rate, 1.74 lbs/hr, is then multiplied by a moisture emission control factor of 70% (1 - .70), resulting in a controlled emissions rate of 0.52 lb/hr.

- ii. Cement unloading to elevated storage silo (pneumatic):

The maximum hourly production rate of 50 tons/hr is multiplied by the AP-42 particulate emission factor of 0.27 lb/ton. The resulting uncontrolled emission rate, 13.5 lbs/hr, is then multiplied by a fabric filter control factor of 99.8% (1 - .998), resulting in a controlled emission rate of 0.03 lb/hr.

- iii. Weigh hopper loading:

The maximum hourly production rate of 15 tons/hr is multiplied by the AP-42 particulate emission factor of 0.02 lb/ton, resulting in an uncontrolled emission rate of 0.3 lb/hr.

- iv. Mixer loading (transit mix):

The maximum hourly production rate of 15 tons/hr is multiplied by the AP-42 particulate emission factor of 0.02 lb/ton, resulting in an uncontrolled emission rate of 0.3 lb/hr.

The lb/hr particulate emissions rates for the four areas are then summed to give the total emission rate for this emissions unit.

Emission Limitation:

0.35 tpy of particulates

Applicable Compliance Method:

The 0.35 tpy emissions limitation was developed by multiplying the 1.15 lbs/hr emissions limitation by a maximum annual operating schedule of 600 hrs/yr. Therefore compliance shall be based upon the 12-month summation of the number of operating hours times the 1.15 lbs/hr emissions limitation, divided by 2,000 lbs/ton.

Emission Limitation:

20% opacity as a 3-minute average

Applicable Compliance Method:

Compliance with the 20% opacity visible emissions limitation, as stipulated in OAC rule 3745-17-07(B)(1), for the transfer of sand and aggregate to elevated bins, cement silo loading operations, the concrete batching operation, and the mix-truck loading operation(s) identified above 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, and the modifications listed in paragraphs (B)(3)(a) and (B)(3)(b) of OAC rule 3745-17-03.

Emission Limitation:

0.030 gr/dscf of particulates

Applicable Compliance Method:

Compliance with the particulate emissions limitation of this permit shall be based on the maximum flow rate of

the control device (500 scfm) times the allowable emissions rate of 0.030 grains/dscf of particulates [per OAC rule 3745-17-08(B)(3)(b)] and the maximum operating schedule of 8760 hours per year. If required pursuant to OAC rule 3745-15-04, the permittee shall demonstrate compliance with the particulate emissions limits of this permit by means of physical testing of the effluent from this emissions unit in accordance with testing procedures listed in 40 CFR Part 60, "Standards of Performance for New Stationary Sources", Appendix A, Method 5, and in OAC rule 3745-17-03(B)(7).

Emission Limitation:

no visible particulate emissions

Applicable Compliance Method:

Compliance with the "no visible emissions" limitation, as stipulated in OAC rule 3745-17-08(B)(3)(b), for both the cement silo loading operation(s) and the concrete batching operations 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.

**F. Miscellaneous Requirements**

**1. Notice to Relocate a Portable or Mobile Source**

Pursuant to OAC rule 3754-31-03(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:

i. the portable emissions unit is equipped with the best available control technology for such portable emission unit;

ii. the portable emissions unit is operating pursuant to a currently effective permit to operate (PTO);

iii. the applicant has provided proper notice of intent to relocate the portable emissions unit to the Akron Regional Air Quality Management District (ARAQMD) and the appropriate field office having jurisdiction over the new site within a minimum of 30 days prior to the scheduled relocation; and

iv. in the ARAQMD'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(F) are met:

i. the portable emissions unit permittee possesses an Ohio Environmental Protection Agency (Ohio EPA) PTI, PTO or Registration Status;

ii. the portable emissions unit is equipped with best available technology;

iii. the portable emissions unit owner has identified the proposed site to Ohio EPA;

iv. Ohio EPA has determined that the portable emissions unit, at the proposed site, will have an acceptable environmental impact;

v. a public notice, consistent with Chapter 3745-47 of the Administrative Code, is published in the county where the proposed site is located;

vi. 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

vii. 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 F.1.a or F.1.b above, shall be valid for no longer than three years and are subject to renewal.

In order for the ARAQMD 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 ARAQMD and the appropriate field office having jurisdiction over the new site. Upon receipt of the notice, the ARAQMD, 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.

2. The permittee shall comply with any applicable State and federal requirements governing the storage, treatment, transport, and disposal of any waste material generated by the operation of the emissions unit.
3. The permittee is hereby notified that this permit, and all agency records concerning the operation of this permitted emissions unit are subject to public disclosure in accordance with OAC rule 3745-49-03.