

Facility ID: 1652000012 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 F001](#)
- [Go to Part II for Emissions Unit P901](#)
- [Go to Part II for Emissions Unit P902](#)

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Facility ID: 1652000012 Emissions Unit ID: F001 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>
F001 - Paved and unpaved plant roadways.	OAC rule 3745-31-05(A)(3) (PTI 16-02354)	17.0 tons of particulate emissions (PE) per year
paved roadways and parking areas (See section A.2.a.)	OAC rule 3745-31-05(A)(3) (PTI 16-02354)	There shall be no visible particulate emissions except for a period of time not to exceed one minute during any sixty-minute observation period. Best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust shall be employed. (See sections A.2.c and A.2.e through A.2.i.)
	OAC rule 3745-17-07(B)(4)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-08(B), (B)(8), (B)(9)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
unpaved roadways and parking areas (See section A.2.b.)	OAC rule 3745-31-05(A)(3) (PTI 16-02354)	There shall be no visible particulate emissions except for a period of time not to exceed three minutes during any sixty-minute observation period. Best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust shall be employed. (See sections A.2.d through A.2.i.)
	OAC rule 3745-17-07(B)(5)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-08(B), (B)(2)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

2. Additional Terms and Conditions

- (a) The paved roadways and parking areas that are covered by this permit and subject to the above-mentioned requirements are listed below:
 - paved roadways:
 - truck & employee main entrance
 - truck lot entrance
 - paved parking areas:

none

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

unpaved roadways:

internal truck roads
yard road
yard service road

unpaved parking areas:

truck parking lot
employee parking lot
yard parking lot

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.

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 and/or non-petroleum based road suppressant 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 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.

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.

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.

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 the roadways and parking areas in accordance with the following frequencies:

paved roadways and parking areas minimum inspection frequency

truck & employee main entrance daily
truck lot entrance daily

unpaved roadways and parking areas minimum inspection frequency

internal truck roads daily
yard road daily
yard service road daily
truck parking lot daily
employee parking lot daily
yard parking lot 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 4.d. shall be kept separately for (i) the paved roadways and parking areas and (ii) the unpaved roadways and parking areas, and shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

D. Reporting Requirements

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

E. Testing Requirements

1. Compliance with the emission limitation(s) in Section A.1. of these terms and conditions shall be determined in accordance with the following method(s):
Emission Limitation:

There shall be no visible particulate emissions except for a period of time not to exceed one minute during any sixty-minute observation period.

Applicable Compliance Method:

Compliance with the 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)(d) of OAC rule 3745-17-03.

Emission Limitation:

There shall be no visible particulate emissions except for a period of time not to exceed three minutes during any sixty-minute observation period.

Applicable Compliance Method:

Compliance with the 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)(d) of OAC rule 3745-17-03.

Emission Limitation:

17.0 tons of PE per year

Applicable Compliance Method:

Compliance with the emission limitation shall be determined using the following AP-42 derived emission factors:

Roadway or Parking Area Emission Factor

Truck & Employee Main Entrance 0.238 lb/VMT*
 Truck Lot Entrance 11.38 lbs/VMT*
 Internal Truck Roads 4.97 lbs/VMT**
 Truck Parking Lot 4.71 lbs/VMT**
 Employee Parking Lot 1.27 lbs/VMT**
 Yard Road 4.59 lbs/VMT**
 Yard Service Road 1.27 lbs/VMT**
 Yard Parking Lot 5.21 lbs/VMT**

For each roadway and parking area, multiply the AP-42 derived emission factor by the maximum total number of vehicle miles traveled per year for that roadway or parking area. Sum the emissions from each roadway and parking area, then divide by 2000 pounds/ton.

*AP-42 Chapter 13.2.1, Equation (2), dated 12/03.

**AP-42 Chapter 13.2.2 Equations (1a) and (2), dated 12/03.

F. Miscellaneous Requirements

1. None

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Facility ID: 1652000012 Emissions Unit ID: P901 Issuance type: Final State Permit To Operate

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Part II - Special Terms and Conditions

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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>
Production concrete plant	OAC rule 3745-31-05 (PTI 16-1756)	2.33 lbs/hr of particulate matter from the equipment identified below
	OAC rule 3745-17-11	9.8 TPY of particulate matter from the equipment identified below
Transfer of sand and aggregate to elevated bins	OAC rule 3745-17-07(B)	The emissions limit based on this applicable rule is less stringent than the limit established pursuant to OAC rule 3745-31-05.
	OAC rule 3745-17-08(B)	The visible emissions of fugitive dust shall not exceed 20% opacity as a 3-minute average. 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.
Three cement silos and one fly ash silo	OAC rule 3745-17-08(B)	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 the bins.
	OAC rule 3745-17-07(B)	The silo(s) shall be adequately enclosed and vented to a fabric filter/baghouse. The enclosure shall be sufficient to eliminate visible emissions of fugitive dust. The fabric filter(s) shall achieve an outlet emission rate not greater than 0.030 grain of particulate emissions per dry standard cubic foot of exhaust gases or there shall be no visible emissions from the outlet whichever is less stringent.
Weigh hopper loading of cement, sand, and aggregate	OAC rule 3745-17-07(B)	The visible emissions of fugitive dust shall not exceed 20% opacity as a 3-minute average.
	OAC rule 3745-17-08(B)	The weigh hopper shall be adequately enclosed. The enclosure shall be sufficient to minimize or eliminate visible emissions of fugitive dust.
Mixer loading	OAC rule 3745-17-07(B)	The visible emissions of fugitive dust shall not exceed 20% opacity as a 3-minute average.
	OAC rule 3745-17-08(B)	The mixer loading shall be adequately enclosed. The enclosure shall be sufficient to eliminate visible emissions of fugitive dust.

2. **Additional Terms and Conditions**
 - (a) None

B. Operational Restrictions

1. None

C. Monitoring and/or Record Keeping Requirements

1. The permittee shall perform daily checks while the equipment is in operation for any visible particulate emissions from the fabric filter/baghouse control systems. An identification of each fabric filter/baghouse control system and the presence or absence of any visible emissions from each of the fabric filter/baghouse control systems shall be noted in an operations log. If any visible particulate emissions are observed from any of the control

systems, corrective actions shall be taken to eliminate the visible emissions and these actions shall also be noted in the operations log.

D. Reporting Requirements

1. The permittee shall submit on a semi-annual basis a report which (a) identifies for each fabric filter/baghouse control system all days during which any visible particulate emissions were observed from the fabric filter/baghouse control system and (b) describes the corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted by January 31 and July 31 of each year to the Director (District Office or Local Air Agency).

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:

0.030 grain per dry standard cubic foot of exhaust gases

Applicable Compliance Method:

Stack testing may be required in the future in accordance with the procedures and test method(s) specified in OAC rule 3745-17-03(B)(7).

Emission Limitation:

2.23 lbs/hr of particulate matter

Applicable Compliance Method:

Compliance shall be determined by totaling the following products:

- i. Sand and aggregate transfer to elevated bins:

Multiply the AP-42 particulate emission factor of 0.029 pound of particulate emissions per ton of material mixed by 23.322 tons per hour. The resulting uncontrolled emissions rate, 0.68 lb/hr, is then multiplied by a moisture emission control factor of 70% (1-.7), resulting in a controlled emission rate of 0.20 lb/hr.

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

Multiply the AP-42 particulate emission factor of 0.27 pound of particulate emissions per ton of material mixed by 23.322 tons per hour. The resulting uncontrolled emissions rate, 6.30 lbs/hr, is then multiplied by a fabric filter/baghouse control factor of 90% (1-.9), resulting in a controlled emission rate of 0.63 lbs/hr.

- iii. Weigh hopper loading:

Multiply the AP-42 particulate emission factor of 0.02 pound of particulate emissions per ton of material mixed by 23.322 tons per hour. The resulting uncontrolled emissions rate is 0.47 lb/hr.

- iv. Mixer loading:

Multiply the AP-42 particulate emission factor of 0.04 pound of particulate emissions per ton of material mixed by 23.322 tons per hour. The resulting uncontrolled emissions rate is 0.93 lb/hr.

The particulate matter emission rates for each of the four areas are summed resulting in an allowable mass emission rate of 2.23 lbs/hr.

Emission Limitation:

20% opacity as a 3-minute average

Applicable Compliance Method:

OAC rule 3745-17-03(B)(3)

Emission Limitation:

no visible particulate emissions

Applicable Compliance Method:

OAC rule 3745-17-03(B)(4)

F. Miscellaneous Requirements

1. None

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Facility ID: 1652000012 Emissions Unit ID: P902 Issuance type: Final State Permit To Operate

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Part II - Special Terms and Conditions

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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>
Batch plant #1 - 8-yd unitized ready mix concrete batch plant	OAC rule 3745-17-11	47.2 lbs/hr of particulate matter from the equipment identified below (based on 66 tons per hour maximum process weight)
Transfer of sand and aggregate to elevated bins	OAC rule 3745-17-07(B)	The visible emissions of fugitive dust shall not exceed 20% opacity as a 3-minute average.
	OAC rule 3745-17-08(B)	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. 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 the bins.
Two cement silos and one fly ash silo	OAC rule 3745-17-08(B)	The silo(s) shall be adequately enclosed and vented to a fabric filter/baghouse. The enclosure shall be sufficient to eliminate visible emissions of fugitive dust. The fabric filter(s) shall achieve an outlet emission rate not greater than 0.030 grain of particulate emissions per dry standard cubic foot of exhaust gases or there shall be no visible emissions from the outlet whichever is less stringent.
Weigh hopper loading of cement, sand, and aggregate	OAC rule 3745-17-07(B)	The visible emissions of fugitive dust shall not exceed 20% opacity as a 3-minute average.
	OAC rule 3745-17-08(B)	The weigh hopper shall be adequately enclosed. The enclosure shall be sufficient to minimize or eliminate visible emissions of fugitive dust.
Loading of transit-mix truck	OAC rule 3745-17-07(B)	The visible emissions of fugitive dust shall not exceed 20% opacity as a 3-minute average.
	OAC rule 3745-17-08(B)	A charging boot shall be used around the hopper choke-feed discharge area and the transit-mix truck opening; the charging boot shall have a collection efficiency sufficient to minimize or eliminate visible emissions of fugitive dust at the point of capture to the extent possible with good engineering design.

2. Additional Terms and Conditions

- (a) None

B. Operational Restrictions

1. None

C. Monitoring and/or Record Keeping Requirements

1. A charging boot shall be used around the hopper choke-feed discharge area and the transit-mix truck opening; the charging boot shall have a collection efficiency sufficient to minimize or eliminate visible emissions of fugitive dust at the point of capture to the extent possible with good engineering design.

D. Reporting Requirements

1. The permittee shall submit on a semi-annual basis a report which (a) identifies for each fabric filter/baghouse control system all days during which any visible particulate emissions were observed from the fabric filter/baghouse control system and (b) describes the corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted by January 31 and July 31 of each year to the Director (District Office or Local Air Agency).

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:

0.030 grain per dry standard cubic foot of exhaust gases

Applicable Compliance Method:

Stack testing may be required in the future in accordance with the procedures and test method(s) specified in OAC rule 3745-17-03(B)(7).

Emission Limitation:

47.2 lbs/hr of particulate matter

Applicable Compliance Method:

Compliance shall be determined by totaling the following products:

i. Sand and aggregate transfer to elevated bins:

Multiply the AP-42 particulate emission factor of 0.029 pound of particulate emissions per ton of material mixed by 66 tons per hour. The resulting uncontrolled emissions rate, 1.91 lb/hr, is then multiplied by a moisture emission control factor of 70% (1-.7), resulting in a controlled emission rate of 0.57 lb/hr.

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

Multiply the AP-42 particulate emission factor of 0.27 pound of particulate emissions per ton of material mixed by 66 tons per hour. The resulting uncontrolled emissions rate, 17.8 lbs/hr, is then multiplied by a fabric filter/baghouse control factor of 90% (1-.9), resulting in a controlled emission rate of 1.78 lbs/hr.

iii. Weigh hopper loading:

Multiply the AP-42 particulate emission factor of 0.02 pound of particulate emissions per ton of material mixed by 66 tons per hour. The resulting uncontrolled emissions rate is 1.32 lb/hr.

iv. Loading of transit-mix truck:

Multiply the AP-42 particulate emission factor of 0.04 pound of particulate emissions per ton of material mixed by 66 tons per hour. The resulting uncontrolled emissions rate is 2.64 lb/hr.

The particulate matter emission rate for each of the four areas are summed resulting in an allowable mass emission rate of 8.22 lbs/hr.

Emission Limitation:

20% opacity as a 3-minute average

Applicable Compliance Method:

OAC rule 3745-17-03(B)(3)

Emission Limitation:

no visible particulate emissions

Applicable Compliance Method:

OAC rule 3745-17-03(B)(4)

F. Miscellaneous Requirements

1. None