

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.

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[Go to Part II for Emissions Unit P902](#)

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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

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>
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.
Three cement silos and one fly ash silo	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.
	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.
Weigh hopper loading of cement, sand, and aggregate	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.
	OAC rule 3745-17-08(B)	The visible emissions of fugitive dust shall not exceed 20% opacity as a 3-minute average.
Mixer loading	OAC rule 3745-17-07(B)	The weigh hopper shall be adequately enclosed. The enclosure shall be sufficient to minimize or eliminate visible emissions of fugitive dust.
	OAC rule 3745-17-08(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.
Two 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.
		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. 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:

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