

Facility ID: 0857190049 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.

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 0857190049 Emissions Unit ID: P901 Issuance type: Final State Permit To Operate

[Go to the top of this document](#)

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>
P901 - Concrete Batch Plant	OAC rule 3745-31-05(A)(3) PTI 08-04723	The particulate emissions (PE) from this emissions unit shall not exceed 2.95 lbs/hr. The requirements of this rule also include compliance with the requirements of OAC rules 3745-35-07(B), 3745-17-07(A), 3745-17-07(B), 3745-17-08(B) and 3745-17-11. The PE from this emissions unit shall not exceed 4.60 tons per year (TPY), as a rolling, 12-month summation.
Transfer of sand and aggregate to elevated bins	OAC rule 3745-35-07(B) Synthetic Minor to Avoid Title V Permitting OAC rule 3745-31-05(A)(3)	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 requirements established pursuant to this rule are equivalent to the requirements of OAC rules 3745-17-07(B). Sand and aggregate loaded into the elevated bins shall, at all times, have an inherent moisture content sufficient to minimize or eliminate visible emissions of fugitive dust The visible emissions of fugitive dust shall not exceed 20 percent opacity as a 3-minute average.
Four Cement silos with fabric filter baghouses	OAC rule 3745-17-08(B) and OAC rule 3745-17-07(B) OAC rule 3745-31-05(A)(3)	See Section A.2.b below. The silos shall be adequately enclosed and vented to fabric filter dust collectors. The enclosure shall be sufficient to eliminate visible emissions of fugitive dust. The fabric filter dust collectors shall achieve an outlet emission rate of not greater than 0.030 grain of PE per dry standard cubic foot of exhaust gases, combined, or there shall be no visible emissions from the outlet, whichever is less stringent.

See Section A.2.d below.

See Section 2.b below.

Weigh hopper loading of cement, fly ash, sand and aggregate with fabric filter baghouse

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

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

See Section A.2.c below.

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

The weigh hopper shall be adequately enclosed and vented to a fabric filter. The enclosure shall be sufficient to eliminate visible emissions of fugitive dust at the last point of capture.

The fabric filter shall achieve an outlet emission rate of not greater than 0.030 grain of PE per dry standard cubic foot of exhaust gases or there shall be no visible emissions from the outlet, whichever is less stringent.

See Section A.2.e below.

See Section A.2.b below.

Truck loading of cement, fly ash, sand and aggregate with fabric filter baghouse (transit-mix)

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

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

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

See Section A.2.c below.

A charging boot shall be used around the hopper discharge area and transit-mix truck opening and vented to a fabric filter dust collector. 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.

The fabric filter dust collector shall achieve an outlet emission rate of not greater than 0.030 grain of PE per dry standard cubic foot of exhaust gases or there shall be no visible emissions from the outlet, whichever is less stringent.

The visible emissions of fugitive dust shall not exceed 20 percent opacity as a 3-minute average.

See Section A.2.f below.

See Section A.2.b.

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

See Section A.2.c.

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

2. Additional Terms and Conditions

- (a) The 2.95 lb PE/hour limitation was established to reflect the potential to emit for this emissions unit. Therefore, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with these terms. For facilities in Appendix A areas defined in OAC rule 3745-17-08(D), the requirements established pursuant to OAC 3745-17-07(B) and OAC rule 3745-17-08(B) are equivalent or less stringent than the requirements established pursuant to OAC 3745-31-05(A)(3). The requirements established pursuant to OAC rule 3745-17-07(A) and OAC rule 3745-17-11(B) are less stringent than the requirements established pursuant to OAC rule 3745-31-05(A)(3). The permittee shall employ the following best available control measures for the above identified cement and cement supplement silos for the purpose of ensuring compliance with the above mentioned applicable requirements:
 - i. Cement and cement supplement shall be transferred pneumatically to the cement and cement supplement silos. The pneumatic system shall be adequately enclosed so as to eliminate at all times visible emission of fugitive dust. Any visible emissions from cement and/or cement supplement dust emanating from the delivery vehicle during transfer shall be cause for the immediate halt of the unloading process and the refusal of cement and/or cement supplement load until the situation is corrected.

- ii. Each cement and cement supplement silo vent shall be adequately enclosed and vented to a fabric filter dust collection system. The enclosure shall be sufficient to eliminate at all times visible emission of fugitive dust at the point of capture.

The permittee shall employ the following best available control measures for the above identified weigh hopper for the purpose of ensuring compliance with the above mentioned applicable requirements:

- i. The cement batching weigh hopper shall be sufficiently enclosed so as to eliminate at all times visible emissions of fugitive dust.
- ii. The transfer of cement/cement supplement/sand/aggregate to the concrete batching weigh hopper shall be enclosed and vented to a fabric filter dust collection system. The enclosure shall be sufficient to minimize or eliminate at all times visible emissions of fugitive dust at the point of capture.

The permittee shall employ the following best available control measures for the above identified truck mix loading process for the purpose of ensuring compliance with the above mentioned applicable requirements.

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

B. Operational Restrictions

- 1. The maximum annual production rate shall not exceed 374,400 cubic yards of concrete per year, on a rolling 12-month basis.

C. Monitoring and/or Record Keeping Requirements

- 1. The permittee shall maintain records of the following information for this emissions unit:
 - a. the annual concrete production rate, in cubic yards; and
 - b. the annual particulate emission rate, in tons (as calculated in Section E.1.b.).
- 2. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack and for any visible fugitive particulate emissions from the egress points (i.e., emissions capture systems, building windows, doors, roof monitors, etc.) 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 location and 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 minimize or eliminate the abnormal visible emissions.

If visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item (d) above or continue the daily check until the incident has ended. The observer may indicate that the visible emission incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible emissions were representative of normal operations, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible emissions.

D. Reporting Requirements

- 1. The permittee shall submit semiannual written reports that:
 - a. identify all days during which any visible particulate emissions were observed in excess of the allowable opacity limit specified above from the stack of the fabric filter dust collection systems serving this emissions unit;
 - b. describe any corrective actions taken to minimize or eliminate the visible particulate from the fabric filters;
 - c. identify all days during which any visible fugitive particulate emissions were observed in excess of the allowable opacity limit specified above from the egress points (i.e., sand/aggregate transfer points, truck loading, enclosures, building windows, doors, roof monitors, , etc.) serving this emissions unit; and
 - d. describe any corrective actions taken to minimize or eliminate the abnormal visible fugitive particulate.

These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.
- 2. The permittee shall submit annual reports to the Director (the appropriate Ohio EPA District Office or local air agency) for this emissions unit that specify:
 - a. The concrete production rate, in cubic yards.
 - b. The total particulate emissions, in tons, as a rolling 12-month summation.

These reports shall be submitted by January 31 of each year and shall cover the previous calendar year.

E. Testing Requirements

1. Compliance with the specified emission limitations in Section A.1. of this permit shall be demonstrated in accordance with the following methods:

Emission Limitation:
The PE shall not exceed 2.95 lbs/hr.

Applicable Compliance Method:
Compliance shall be determined by totaling the following products:

- i. Sand and aggregate transfer from storage to conveyor:

The maximum process rate of 120 cubic yards of concrete multiplied by the sum of by 0.0015 lb PE/cubic yard of concrete for sand transfer and 0.0064 lb PE/cubic yard of concrete for aggregate transfer (AP-42,Chapter 11, Table 11.12-3 (10/01)) for an uncontrolled emission rate of 0.948 lbs/hr.

- ii. Sand and aggregate transfer from conveyors to elevated bins:

The maximum process rate of 120 cubic yards of concrete multiplied by the sum of by 0.0015 lb PE/cubic yard of concrete for sand transfer and 0.0064 lb PE/cubic yard of concrete for aggregate transfer (AP-42,Chapter 11, Table 11.12-3 (10/01)) for an uncontrolled emission rate of 0.948 lbs/hr.

- iii. Cement delivery to elevated silo (pneumatic):

The maximum process rate of 120 cubic yards of concrete multiplied by the emission factor of 0.0002 lb PE/cubic yard of concrete for pneumatic cement delivery to silo (AP-42,Chapter 11, Table 11.12-3 (10/01)) for an controlled emission rate of 0.024 lb/hr.

- iv. Weigh hopper loading:

The maximum process rate of 120 cubic yards of concrete multiplied by the emission factor of 0.0079 lb PE/cubic yard of concrete for weigh hopper loading (AP-42,Chapter 11, Table 11.12-3 (10/01)) for a controlled emission rate of 0.948 lb/hr.

- v. Truck mix loading:

The maximum process rate of 120 cubic yards of concrete multiplied by the emission factor of 0.17 lb PE/cubic yard of concrete for transit mix loading (AP-42,Chapter 11, Table 11.12-3 (10/01)), then multiplied by a control factor of (1-0.996) for an controlled emission rate of 0.082 lbs/hr.

Emission Limitation:
The PE shall not exceed 4.60 tons/year, as a rolling 12-month summation.

Applicable Compliance Method:
The 4.60 TPY emission limitation was developed by multiplying the sum total maximum hourly emission rate determined in E.1.a by the maximum operating schedule of 3120 hours/year and dividing by 2000 lb/ton. Therefore, compliance shall be based upon the record keeping requirements specified in Section C.1. of this permit.

Emission Limitation:
The PE shall not exceed 0.030 grain/dscf at the outlet for each fabric filter.

Applicable Compliance Method:
If required, compliance with this mass emission limitation shall be based on stack testing in accordance with procedures specified in 40 CFR Part 60, Appendix A, Methods 1 through 5 and the procedures specified in OAC rule 3745-17-03(B)(10).

Emission Limitation:
The visible fugitive PE shall not exceed 20 percent opacity as a 3-minute average for transfer of sand and aggregate and truck mix loading.

Applicable Compliance Method:
Compliance shall be determined by visible emission evaluations performed in accordance with OAC rule 3745-17-03(B)(3) using the methods and procedures specified in USEPA Reference Method 9.

Emission Limitation:
There shall be no visible PE from outlet of each fabric filters.

Applicable Compliance Method:
Compliance shall be determined by visible emission evaluations performed in accordance with OAC rule 3745-17-03(B)(1) using the methods and procedures specified in USEPA Reference Method 9.

F. Miscellaneous Requirements

1. Pursuant to OAC rule 3745-31-03(A)(1)(p), the permittee of a portable source may relocate within the State of Ohio without first obtaining a permit to install (PTI) providing certain criteria are met. The portable source shall meet one of the two following scenarios in order to qualify for this PTI exemption for the new location:

- a. The following determinations have been documented, pursuant to OAC rule 3745-31-03(A)(1)(p)(i):

- i. the portable source is equipped with the best available technology for such portable source;
- ii. the portable source is operating pursuant to a currently effective permit to install, permit to operate (PTO), or registration status;
- iii. the applicant has provided proper notice of the intent to relocate the portable source to the (1.) Ohio EPA District Office or local air agency responsible for the permit(s) for the source and (2.) the appropriate Ohio EPA District Office or local air agency having jurisdiction over the new site within a minimum of 30 days prior to the scheduled relocation; and

iv. in the judgement of the Ohio EPA District Office or local air agency having jurisdiction over the new site, the proposed site is acceptable under OAC rule 3745-15-07.

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

i. the portable source permittee possesses an Ohio EPA PTI, PTO or registration status;

ii. the portable source is equipped with best available technology;

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

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

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

vi. the owner of the proposed site has provided the portable source owner with approval or equivalent declaration that it is acceptable to the site owner to move the portable source to this proposed site; and

vii. the portable source owner has provided Ohio EPA with 15 days written notice of the relocation.

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

In order for the permitting Ohio EPA District Office or local air agency 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 source must file a " Notice of Intent to Relocate" within the specified time frame (30 or 15 days), prior to the relocation of the portable source with the Ohio EPA District Office or local air agency responsible for the permits for the source and the appropriate Ohio EPA District Office or local air agency having jurisdiction over the new site. Upon receipt of the notice, the Ohio EPA District Office or local air agency responsible for the permits for the portable source, and/or appropriate Ohio EPA District Office or local air agency 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 portable source may result in fines and civil penalties.

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

2. The following terms and conditions are federally enforceable: Sections A.1 (only the requirements associated with OAC 3745-35-07(B)), A.2.d-f, B.1, and C.1, D.2, and E.1.b.