

Facility ID: 1667000061 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: 1667000061 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>
Portable dry concrete batch plant	OAC rule 3745-31-05 (PTI 16-1310)	See A.2.a below.
	OAC rule 3745-17-07	See A.2.b below.
	OAC rule 3745-17-11	See A.2.c below.
Transfer of sand and aggregate to elevated bins	OAC rule 3745-31-05 (PTI 16-1310)	See A.2.d below.
	OAC rule 3745-17-08	See A.2.h below.
Cement silo vents with fabric filters	OAC rule 3745-31-05 (PTI 16-1310)	See A.2.e below.
	OAC rule 3745-17-08	See A.2.h below.
Weigh hopper loading of cement with fabric filter, and weigh hopper loading of sand and aggregate	OAC rule 3745-31-05 (PTI 16-1310)	See A.2.f below.
	OAC rule 3745-17-08	See A.2.h below.
Loading of transit-mix truck with telescoping charging boot	OAC rule 3745-31-05 (PTI 16-1310)	See A.2.g below.
	OAC rule 3745-17-08	See A.2.h below.

2. Additional Terms and Conditions

- (a) The permittee shall limit stack emissions of particulates from emissions unit P901 to a maximum of 1.2 lbs/hr.

The hourly particulates emission limit is based upon the emissions unit's controlled potential to emit. Visible particulate emissions from any stack shall not exceed 20%, as a 6-minute average. The emission limit based upon this rule is less stringent than the limit based upon OAC rule 3745-31-05.

The permittee shall employ best available technology (BAT) to control particulate emissions from the transfer of sand and aggregate to elevated bins. The control technology shall include the following:

 - i. the satisfactory employment of properly installed bin enclosures for the sand and aggregate bins, in accordance with the manufacturer's recommendations, instructions, and operating manual(s), to adequately control particulate emissions;
 - ii. the enclosures for the sand and aggregate bins shall be sufficient to minimize visible emissions of fugitive dust at the point of capture to the extent possible with good engineering design;
 - iii. the sand and aggregate loaded into the elevated bins shall have a moisture content sufficient to minimize visible emissions of fugitive dust from the conveyor and transfer point to bins; and
 - iv. the drop height of the front-end bucket shall be minimized to the extent possible in order to minimize

visible emissions of fugitive dust from the conveyor loading area.

The permittee shall employ best available technology (BAT) to control particulate emissions from the three cement silo vents. The control technology shall include the following:

i. the satisfactory employment of three properly installed fabric filters, one fabric filter for each of the three silo vents, in accordance with the manufacturer's recommendations, instructions, and operating manual(s), to adequately control particulate emissions;

ii. the installation and employment of hoods, fans, ducts, and other equipment, in accordance with the manufacturer's recommendations, instructions, and operating manual(s), to adequately enclose, contain, capture, and vent particulates to the fabric filters; and

iii. the enclosures for the cement silo vents shall be sufficient to minimize visible emissions of fugitive dust at the points of capture to the extent possible with good engineering design.

The permittee shall employ best available technology (BAT) to control particulate emissions from the weigh hopper loading of cement, and sand and aggregate. The control technology shall include the following:

i. the satisfactory employment of a properly installed fabric filter, in accordance with the manufacturer's recommendations, instructions, and operating manual(s), to adequately control particulate emissions from the cement weigh hopper;

ii. the installation and employment of hoods, fans, ducts, and other equipment, in accordance with the manufacturer's recommendations, instructions, and operating manual(s), to adequately enclose, contain, capture, and vent particulates to the fabric filter; and

iii. the enclosures for the weigh hoppers shall be sufficient to minimize visible emissions of fugitive dust at the points of capture to the extent possible with good engineering design.

The permittee shall employ best available technology (BAT) to control particulate emissions from the loading of the transit-mix truck. The control technology shall include the following:

i. the satisfactory employment of a properly installed telescoping charging boot used as an enclosure around the hopper discharge area and transit-mix truck opening; and

ii. the charging boot shall have a collection efficiency sufficient to minimize visible emissions of fugitive dust at the point of capture to the extent possible with good engineering design.

This facility is not located in an "Appendix A" geographical area, as defined in OAC rule 3745-17-08, and there are neither past nor current air pollution violations on record. Therefore, the requirements of paragraph (B) of OAC rule 3745-17-07 and paragraph (B) of OAC rule 3745-17-08 are not applicable to emissions unit P901.

This permit only covers the portable concrete batch plant (OEPA ID #1667000061P901), owned and operated by Associated Associates, Inc., situated on land leased from the S & S Aggregate, Inc. facility (OEPA ID #1667000020) located at 9551 Elliman Road, Mantua, OH 44255.

According to both Associated Associates, Inc. and S & S Aggregate, Inc., all other operations and activities (except the concrete plant), including roadways/parking areas, storage piles, material handling outside of the concrete plant, etc., at this location are owned and operated, with full responsibility, by S & S Aggregate, Inc.

B. Operational Restrictions

1. None

C. Monitoring and/or Record Keeping Requirements

1. The permittee shall perform daily checks for any visible particulate emissions from the fabric filter control systems for the cement weigh hopper and cement silos, while the weigh hopper and silos are in operation. The presence or absence of any visible emissions from each fabric filter control system shall be noted in an operations log. If any visible emissions are observed from any system, 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 all days during which any visible particulate emissions were observed from the fabric filter control systems 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 visible emission limitations in Section A.2 of these terms and conditions shall be determined in accordance with the following methods:

Emission Limitation:

20% opacity as a 6-minute average, for stack emissions

Applicable Compliance Method:

OAC rule 3745-17-03(B)(1)

Emission Limitation:

1.2 lbs/hr of particulates

Applicable Compliance Method:

The 1.2 lbs/hr particulates emission limit was developed as shown below.

Based upon application data and permit to install (PTI) 16-1310 information, the maximum hourly design production capacity for each of the four concrete plant operations is listed below along with the appropriate

uncontrolled particulates emission factor from AP-42, 4th edition, Table 8.10-1 (also, each plant operation has an overall particulates control efficiency of 90%, as assumed in PTI 16-1310):

- i. transfer of sand and aggregate to elevated bins: 25 tons of material processed/hr with a particulate emission factor of 0.029 lb/ton of material processed;
- ii. transfer of cement to elevated silo: 25 tons of material processed/hr with a particulate emission factor of 0.27 lb/ton of material processed;
- iii. weigh hopper loading of cement, sand, and aggregate: 100 tons of material processed/hr with a particulate emission factor of 0.02 lb/ton of material processed; and
- iv. loading of transit truck: 100 tons of material processed/hr with a particulate emission factor of 0.02 lb/ton of material.

Based upon the above information, controlled potential hourly particulate emissions for each concrete plant operation are determined. Adding the hourly emission rates from all four operations yields the controlled potential hourly particulate emissions rate for the entire emissions unit.

F. Miscellaneous Requirements

1. Notice to Relocate a Portable or Mobile Source
Pursuant to Ohio Administrative Code (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 emissions 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) within a minimum of thirty days prior to the scheduled relocation; and
 - iv. in the ARAQMD's judgement, the proposed site is acceptable under the rule 3745-15-07 of the Administrative Code.
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 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 fifteen days written notice of the relocation.
2. Any site approvals issued by the Ohio EPA shall be valid for no longer than three years and are subject to renewal.

In order for the ARAQMD 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, 146 South High Street, Suite 904, Akron, OH 44308. Upon receipt of the notice, the ARAQMD, or the ARAQMD authorized representative, 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.
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.
4. 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.