

Facility ID: 1667040157 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: 1667040157 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 - Johnson Ross Bandit 12 BTR concrete production plant. | OAC rule 3745-31-05(A)(3) (PTI 16-02374) | 12.61 pounds of particulate emissions (PE) per hour 55.2 tons of PE per year |
| | OAC rule 3745-17-11 | The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-7(B) and OAC rule 3745-17-08(B). |
| Transfer of sand and aggregate to conveyor | OAC rule 3745-17-07(B) OAC rule 3745-17-08(B) | The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3). The visible emissions of fugitive dust shall not exceed 20 percent opacity as a 3-minute average. The drop height of the front-end loader shall be minimized to the extent possible in order to minimize or eliminate visible emissions of fugitive dust from the conveyor loading area. |
| Transfer of sand and aggregate to elevated storage bins | OAC rule 3745-17-07(B) OAC rule 3745-17-08(B) | The visible emissions of fugitive dust shall not exceed 20 percent opacity as a 3-minute average. The sand and aggregate loaded into the elevated storage bins shall have a moisture content sufficient to minimize or eliminate visible emissions of fugitive dust from the conveyor and transfer point to the storage bins. |
| Two cement storage silos and one split cement supplement storage silo | OAC rule 3745-17-08(B) | Each silo 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/baghouse shall achieve an outlet emission rate of 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. |
| Sand and aggregate weigh hopper | 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. |
| Cement and cement supplement weigh hopper | OAC rule 3745-17-08(B) | The weigh hopper 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/baghouse shall achieve an outlet emission rate of not greater than 0.030 grain of particulate emissions per dry standard cubic foot of |

- | | | |
|---------------------------|--|--|
| Transit mix truck loading | OAC rule 3745-17-07(B) OAC rule 3745-17-08(B) | 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% opacity as a 3-minute average. A choke feed shall be employed to minimize or 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 limitation(s) in Section A.1. of these terms and conditions shall be determined in accordance with the following method(s):
- 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)(10).
- Emission Limitation
- 12.61 pounds of PE per hour
- Applicable Compliance Method
- Compliance shall be determined by totaling the following products:
- i. Transfer of aggregate to the conveyor:
- Multiply the AP-42 particulate emissions factor of 0.0069 pound of particulate emissions per ton of material by 139.9 tons per hour. The resulting uncontrolled emissions rate is 0.965 pound per hour.
- ii. Transfer of sand to the conveyor:
- Multiply the AP-42 particulate emissions factor of 0.0021 pound of particulate emissions per ton of material by 107.1 tons per hour. The resulting uncontrolled emissions rate is 0.225 pound per hour.
- iii. Transfer of aggregate to elevated storage bins:
- Multiply the AP-42 particulate emissions factor of 0.0069 pound of particulate emissions per ton of material by 139.9 tons per hour. The resulting uncontrolled emissions rate is 0.965 pound per hour.
- iv. Transfer of sand to elevated storage bins:
- Multiply the AP-42 particulate emissions factor of 0.0021 pound of particulate emissions per ton of material by 107.1 tons per hour. The resulting uncontrolled emissions rate is 0.225 pound per hour.
- v. Weigh hopper loading:
- Multiply the AP-42 particulate emissions factor of 0.0051 pound of particulate emissions per ton of material by 247.0 tons per hour. The resulting uncontrolled emissions rate is 1.26 pounds per hour.
- vi. Cement unloading to elevated storage silo (pneumatic):
- Multiply the AP-42 particulate emissions factor of 0.00099 pound of particulate emissions per ton of material by 36.8 tons per hour. The resulting controlled emissions rate is 0.04 pound per hour.
- vii. Cement supplement unloading to elevated storage silo (pneumatic):
- Multiply the AP-42 particulate emissions factor of 0.0089 pound of particulate emissions per ton of material by 5.5 tons per hour. The resulting controlled emissions rate is 0.05 pound per hour.
- viii. Truck loading (transit mix):
- Multiply the AP-42 particulate emissions factor of 0.21 pound of particulate emissions per ton of material by

42.3 tons per hour. The resulting controlled emissions rate is 8.88 pounds per hour.

The pound(s) per hour emission rate for each of the eight areas are summed. The resulting pounds per hour emission rate is 12.61.

AP-42 emission factors are from AP-42, Table 11.12-2, dated 10/01.
Emission Limitation

55.2 tons of PE per year

Applicable Compliance Method

Multiply the allowable particulate emission rate by 8760 hours per year, then divide by 2000 pounds per ton.
Emission Limitation

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

Applicable Compliance Method

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

no visible emissions

Applicable Compliance Method

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

F. **Miscellaneous Requirements**

1. None