

Facility ID: 1677080040 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 F002](#)
- [Go to Part II for Emissions Unit P901](#)

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Facility ID: 1677080040 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>
Roadways	PTI 16-1539 OAC 3745-17-07 OAC 3745-17-08	See A.2 below.

2. Additional Terms and Conditions

- (a) The total particulate emissions from all roadways and parking areas at this facility shall not exceed 0.1 tons per year.
 For the unpaved roadways and parking areas, there shall be no visible particulate emissions except for a period of time not to exceed three minutes during any sixty-minute observation period.
 For the paved roadways and parking areas, there shall be no visible particulate emissions except for a period of time not to exceed one minute during any sixty-minute observation period.
 The permittee shall sweep the paved roadways and parking areas to minimize or eliminate, at all times, visible emissions of fugitive dust generated by vehicular traffic. The following equipment shall be used to sweep the roadways and parking areas: broom sweeper. The paved surfaces shall be swept, at a minimum, every week. The permittee shall not be required to sweep during wet conditions when there is sufficient moisture to prevent visible emissions of fugitive dust.

 Any material carried off of the permittee's property and deposited onto public streets by vehicular traffic or by erosion by water, etc., shall be promptly removed and disposed of properly to minimize or prevent resuspension.

 A maximum speed limit of 10 miles per hour shall be posted and enforced on the property.

 Open bodied vehicles transporting materials likely to become airborne shall be covered at all times. The permittee shall apply dust suppressants to the unpaved roadways and parking areas to minimize or eliminate, at all times, visible emissions of fugitive dust generated by vehicular traffic. Water shall be used as the dust suppressant, and the following equipment shall be used for the periodic applications: hose or watering truck. The dust suppressant shall be applied to the unpaved surfaces, at a minimum, every week. This term and condition shall be waived during wet conditions when there is sufficient moisture to prevent visible emissions of fugitive dust.

 Any material carried off of the permittee's property and deposited onto public streets by vehicular traffic or by erosion by water, etc., shall be promptly removed and disposed of properly to minimize or prevent resuspension.

 A maximum speed limit of 10 miles per hour shall be posted and enforced on the property.

 Open bodied vehicles transporting materials likely to become airborne shall be covered at all times.

B. Operational Restrictions

1. None

C. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain records which include the following information for the unpaved roadways and parking areas:
 - a. the date dust suppressants were applied to the unpaved surfaces;
 - b. the portions of unpaved surfaces that were treated with dust suppressants;
 - c. the application rate of water and any chemical additives (gallons of each per square yard); and
 - d. the name of the equipment operator responsible for the application of the dust suppressants.
 2. The permittee shall maintain records which include the following information for the paved roadways and parking areas:
 - a. the date the paved surfaces were swept;
 - b. the portions of the paved surfaces that were swept; and
 - c. the name of the equipment operator responsible for the sweeping.
- D. Reporting Requirements**
1. None
- E. Testing Requirements**
1. Compliance with the emission limitations in Section A.2 of these terms and conditions shall be determined in accordance with the following methods:
Emission Limitation:

0.1 TPY of particulate matter

Applicable Compliance Method:

Total Emissions = Paved Roadways + Unpaved Roadways

i. Paved Roadway Emissions:

multiply the particulate emission factor of 0.02 pound per VMT by the maximum vehicle miles traveled per year

ii. Unpaved Roadway Emissions:

multiply the particulate emission factor of 0.066 pound per VMT by the maximum vehicle miles traveled per year

All emission factors were provided by the permittee in the permit application.
Emission Limitation:

no visible emissions

Applicable Compliance Method:

OAC 3745-17-03(B)(4)
- F. Miscellaneous Requirements**
1. None

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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>
Material handling	PTI 16-1539 OAC 3745-17-07 OAC 3745-17-08	See A.2.a - A.2.d below. See A.2.e below.
2. Additional Terms and Conditions		
(a) The total particulate emissions from all material handling systems at this facility shall not exceed 12.0 lbs. per hour. This limitation was established for PTI purposes 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 this limit. The total particulate emissions from material handling processes at this facility shall not exceed 1.8 tons per year. All material handling bins must be equipped with lids. There shall be no visible particulate emissions from any material storage piles except for a period of time not to exceed one minute during any sixty-minute observation period. The permittee shall take reasonable available control measures to prevent fugitive dust from becoming airborne through the periodic application of water on the material handling and storage piles.		
B. Operational Restrictions		
1. None		
C. Monitoring and/or Record Keeping Requirements		
1. The permittee shall maintain records which include the following information for the material handling and storage piles:		
a. the date dust suppressants were applied;		
b. the portions of storage piles and material handling that were treated with dust suppressants;		
c. the application rate of water and any chemical additives (gallons of each); and		
d. the name of the equipment operator responsible for the application of the dust suppressants.		
D. Reporting Requirements		
1. None		
E. Testing Requirements		
1. Compliance with the emission limitations in Section A.2 of these terms and conditions shall be determined in accordance with the following methods:		
Emission Limitation:		
12.0 lbs/hr of particulate matter		
Applicable Compliance Method:		
multiply the particulate emission factor of 0.04 lb/ton by the maximum transfer rate		
The emission factor was supplied by the permittee in the permit application.		
Emission Limitation:		
1.8 TPY of particulate matter		
Applicable Compliance Method:		
multiply the particulate emission factor of 0.04 lb/ton by the maximum amount of material handled per year and divide the result by 2,000		
The emission factor was supplied by the permittee in the permit application.		
Emission Limitation:		
no visible emissions		
Applicable Compliance Method:		
OAC 3745-17-03(B)(4)		
F. Miscellaneous Requirements		
1. None		

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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>
Concrete Batch Plant	PTI 16-1539 OAC 3745-17-11	0.030 gr/dscf of exhaust gases from each fabric filter outlet or no visible emissions, 8.4 lbs/hr and 15.0 TPY of particulate.
Transfer of sand and aggregate to elevated bins	PTI 16-1539 OAC 3745-17-07 OAC 3745-17-08	The visible emissions of fugitive dust shall not exceed 20 percent 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. 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 bins.
Cement Silo	PTI 16-1539 OAC 3745-17-08	The silo shall be adequately enclosed and vented to a fabric filter; the enclosure shall be sufficient to eliminate visible emissions of fugitive dust at the point of capture. The fabric filter 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.
Weigh hopper loading of cement, sand and aggregate	PTI 16-1539 OAC 3745-17-08	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 point of capture.
Loading of transit-mix truck	PTI 16-1539 OAC 3745-17-07 OAC 3745-17-08	The visible emissions of fugitive dust shall not exceed 20 percent opacity as a 3-minute average. A charging boot shall be used around the hopper choke-feed discharge area and 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) The 8.4 lbs/hr limitation was established for PTI purposes 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 this limit.

B. Operational Restrictions

1. The maximum annual operating hours for this emissions unit shall not exceed 2600 hours.

C. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain monthly records of the operating hours for this emissions unit.
2. The permittee shall perform daily checks for any visible particulate emissions from the fabric filter control systems for the weigh hopper and cement silo, while the weigh hopper and silo 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 either 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 annual reports of the total operating hours for this emissions unit. These reports shall

be submitted by January 31 of each year to the Director (District Office or local air agency).

2. 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 emission limitations in Section A.1 of these terms and conditions shall be determined in accordance with the following methods:

Emission Limitation:

0.030 gr/dscf

Applicable Compliance Method:

If required, compliance with this mass emission limitation shall be based on stack testing per OAC rule 3745-17-03(B)(7).

Emission Limitation:

8.4 lbs/hr of particulate

Applicable Compliance Method:

Compliance shall be determined by totalling the following products:

- i. Sand and aggregate transfer to elevated bin:

The maximum hourly production rate of 28.02 tons/hr is multiplied by the AP-42 emission factor, 0.029 lb/ton. The resulting uncontrolled emissions rate, 0.81 lb/hr, is then multiplied by a moisture emission control factor of 70% (1-.70), resulting in a controlled emissions rate of 0.24 lb/hr.

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

The maximum hourly production rate of 28.02 tons/hr is multiplied by the AP-42 emission factor, 0.27 lb/ton. The resulting uncontrolled emissions rate, 7.57 lbs/hr, is then multiplied by a fabric filter control factor of 99% (1-.99), resulting in a controlled emission rate of 0.08 lb/hr.

- iii. Weigh hopper loading:

The maximum hourly production rate of 28.02 tons/hr is multiplied by the AP-42 emission factor, 0.02 lb/ton. The resulting uncontrolled emissions rate, 0.56 lb/hr, is then multiplied by a fabric filter control factor of 95% (1-.95), resulting in a controlled emission rate of 0.03 lb/hr.

- iv. Mixer loading (transit mix):

The maximum hourly production rate of 28.02 tons/hr is multiplied by the AP-42 emission factor, 0.02 lb/ton. The resulting uncontrolled emissions rate, 0.56 lb/hr, is then multiplied by a control factor of 75% (1-.75), resulting in a controlled emission rate of 0.14 lb/hr.

Emission Limitation:

15.0 TPY of particulate matter

Applicable Compliance Method:

Compliance shall be based upon the 12-month summation of the number of operating hours times the 8.4 lbs/hr emission limitation, divided by 2000 lbs/ton.

Emission Limitation:

20 percent opacity as a 3-minute average

Applicable Compliance Method:

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

Emission Limitation:

no visible emissions

Applicable Compliance Method:

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

F. Miscellaneous Requirements

1. None