

Facility ID: 0536020113 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: 0536020113 Emissions Unit ID: P902 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>
125 TPH asphalt plant (P902)	OAC rule 3745-31-05(A)(3) and PTI 05-0076 issued 9/1/99	Stack Emissions: Particulate Emissions (PM) shall not exceed 7.63 lbs/hr. Carbon Monoxide (CO) emissions shall not exceed 42.5 lbs/hr. Nitrogen Oxide (NOx) emissions shall not exceed 21.25 lbs/hr. Sulfur Dioxide (SO2) emissions shall not exceed 30 lbs/hr. Organic Compounds emissions shall not exceed 5.75 lbs/hr.
rotary dryer, hot aggregate elevator, vibrating screens, and weigh hopper	OAC rule 3745-31-05(C) Synthetic Minor to avoid Title V	See A.2.b. and A.2.c. 17 TPY CO, based upon a rolling, 12-month summation of the monthly emissions, 12 TPY SO2, based upon a rolling, 12-month summation of the monthly emissions, 3.05 TPY PM, based upon a rolling, 12-month summation of the monthly emissions, 8.5 TPY NOx, based upon a rolling, 12-month summation of the monthly emissions, 2.3 TPY TOC, based upon a rolling, 12-month summation of the monthly emissions; and,
	40 CFR Part 60 Subpart I	See A.2.e. 0.04 gr PE/dscf of exhaust gas Emissions from the baghouse stack shall not exhibit 20% opacity, or greater.
	3745-17-11(B)(1)	See A.2.f. The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to 40 CFR Part 60, Subpart I.
	3745-17-07(A)(1)	The emission limitation specified by this rule is less

		stringent than the emission limitation established pursuant to 40 CFR Part 60, Subpart I.
	3745-17-08(B)	See A.2.a. below
aggregate storage bins and cold aggregate elevator	3745-17-07(B)(1)	20% opacity, 3-minute average
	3745-17-08(B)	See A.2.d. below

2. **Additional Terms and Conditions**

- (a) There shall be no visible emissions of fugitive dust from the enclosures for the hot aggregate elevator, vibrating screens, and weigh hopper
 Compliance with OAC rule 3745-31-05 shall be demonstrated by the use of a baghouse thru the installation, use of hoods, fans, and other equipment to adequately enclose, contain, capture, vent and control fugitive dust PM emissions and compliance with the limits in term A.1.
 The following conditions apply to the rotary dryer, hot aggregate elevator, vibrating screens, and weigh hopper:
1. Particulate emissions for this source shall not exceed 0.04 grain per dry standard cubic foot of exhaust gases
 2. Visible particulate emissions from the stack shall not exceed 20 percent opacity, as a 6-minute average, except as provided by rule
 The following conditions apply to the aggregate storage bins and cold aggregate elevator:
 - 1.The drop height of the front end loader bucket shall be minimized to the extent possible in order to minimize or eliminate visible emissions of fugitive dust from the elevator loading area;
 - 2.The aggregate loaded into the storage bins shall have a moisture content sufficient to eliminate the visible emissions of fugitive dust from the elevator and the transfer point to the dryer;
 - 3.Fugitive dust emissions shall not exceed 20 percent opacity, as a 3-minute average.
 The emission limitations per rolling 12-month period contained in A.1 are based on production restrictions (see B.2) for the purpose of establishing federally enforceable limitations to avoid Title V applicability.
 The gr/dscf emission limitation for PE specified by this rule is less stringent than the emission limitation for the maximum outlet concentration established pursuant to OAC rule 3745-31-05(A).

B. **Operational Restrictions**

1. To ensure the baghouse is operated according to the manufacturer's specifications and to maintain compliance with the allowable particulate emission rate, a pressure drop across the baghouse of not less than 2 inches water column or greater than 6 inches water column shall be maintained at all times.
2. The maximum annual production rate for this emissions unit shall not exceed 100,000 tons of asphalt, based upon a rolling, 12-month summation of the production rates.
3. The permittee shall operate and maintain the fuel burner in accordance with the manufacturer's recommendations to ensure efficient combustion of the fuel(s) and to ensure compliance with the applicable emission limitations for CO and NOx.

C. **Monitoring and/or Record Keeping Requirements**

1. The permittee shall properly operate and maintain a monitoring device capable of accurately measuring the pressure drop across the fabric filter.
2. The permittee shall check the pressure drop once a day and maintain daily records of the pressure drop readings.
3. The permittee shall maintain monthly records of the following information:
 - a. the asphalt production for each month;
 - b. beginning after the first 12 calendar months of operation, the rolling, 12-month summation of the asphalt production;
 - c. during the first 12 calendar months of operation, the permittee shall record the cumulative asphalt production for each calendar month; and
 - d. the maximum percentage of RAP used for any mix.
4. The permittee shall perform daily visible emission checks, when the emissions unit is in operation and when the weather conditions allow, for any abnormal (above the allowable) visible particulate emissions from the baghouse servicing this emissions unit. If visible particulate emissions are observed, the permittee shall note the following in the operation log:
 - a. the color of the visible emissions;
 - b. the cause of the visible emissions;
 - c. the total duration of the visible emission incident; and
 - d. corrective actions taken to correct the excess visible particulate emissions.
5. The permittee shall perform daily visible emission checks, when the emissions unit is in operation and when the weather conditions allow, for any visible emissions of fugitive dust from the rotary drum, the feed hoppers and cold aggregate elevator/conveyor serving this emissions unit. If visible emissions are observed, the permittee shall note the following in the

operation log:

- a. the location and color of the visible emissions;
- b. the cause of the visible particulate emissions;
- c. the total duration of any visible emissions incident; and
- d. any corrective actions taken to minimize or eliminate the visible emissions.

D. Reporting Requirements

1. The permittee shall submit quarterly pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above. These reports are due by the dates described in Part I - General Terms and Condition of this permit under section (A)(2).
2. The permittee shall submit quarterly deviation (excursion) reports that identify all exceedances of the rolling 12-month SO₂, NO_x, OC, CO, and PE emission limitations. These reports are due by the dates described in Part I - General Terms and Condition of this permit under section (A)(2).
3. The permittee shall submit quarterly deviation (excursion) reports that identify all exceedances of the rolling 12-month asphalt production limitation. These reports are due by the dates described in Part I - General Terms and Conditions of this permit under section (A)(2).
4. The permittee shall submit semiannual written deviation (excursion) reports that (a) identify all days during which any abnormal (above the allowable) visible particulate emissions were observed from the stack serving this emissions unit, and (b) describe any corrective actions taken to eliminate the abnormal visible particulate emissions. These reports shall be submitted to the 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.
5. The permittee shall submit semiannual written deviation (excursion) reports that (a) identify all days during which any visible fugitive particulate emissions were observed from the rotary drum, feed hoppers and cold aggregate elevator/conveyor serving this emissions unit, and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the 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.

E. Testing Requirements

1. Compliance with the emissions limitation(s) in Section A. of these terms and conditions shall be determined in accordance with the following method(s):
Emission Limitation

7.63 lbs PM/hr, 3.05 TPY PM, based upon a rolling, 12-month summation of the monthly emissions

Applicable Compliance Method

Compliance shall be demonstrated using Method 5, 40 CFR Part 60, Appendix A. In the absence of Ohio EPA requiring such testing, the permittee may calculate actual PM emission rates for the unit utilizing the following equation:

$$E = EF * P$$

Where:

E=Emissions in pounds per hr

EF = emission factor = 0.061 lb/ton (AP-42 11.1, 1-95)

P = production rate in tons per hour

$$E12=(EF * AAPR)/2000$$

Where:

E12 = emissions in tons per rolling 12-month period

EF = emission factor = 0.061 lb/ton (AP-42 11.1, 1-95)

AAPR= actual asphalt production rate, in tons for the last rolling 12-month period

Emission Limitation

42.5 lbs CO/hr

Applicable Compliance Method

Compliance shall be demonstrated using Method 10, 40 CFR Part 60, Appendix A. In the absence of Ohio EPA requiring such testing, the permittee may calculate actual CO emission rates for the unit utilizing the following equation:

$$E = EF * P$$

Where:

E=Emissions in pounds per hr

EF = emission factor = 0.34 lb/ton (AP-42 11.1, 1-95)

P = production rate in tons per hour

$$E12=(EF * AAPR)/2000$$

Where:

E12 = emissions in tons per rolling 12-month period

EF = emission factor = 0.34 lb/ton (AP-42 11.1, 1-95)

AAPR= actual asphalt production rate, in tons for the last rolling
12-month period
Emission Limitation

21.25 lbs NOx/hr, 8.5 TPY NOx, based upon a rolling, 12-month summation of the monthly emissions

Applicable Compliance Method

Compliance shall be demonstrated using Method 7, 40 CFR Part 60, Appendix A. In the absence of Ohio EPA requiring such testing, the permittee may calculate actual NOx emission rates for the unit utilizing the following equation:

$$E = EF * P$$

Where:

E=Emissions in pounds per hr
EF = emission factor = 0.17 lb/ton (AP-42 11.1, 1-95)
P = production rate in tons per hour

$$E12=(EF * AAPR)/2000$$

Where:

E12 = emissions in tons per rolling 12-month period
EF = emission factor = 0.17 lb/ton (AP-42 11.1, 1-95)
AAPR= actual asphalt production rate, in tons for the last rolling
12-month period
Emission Limitation

30 lbs SO2/hr

Applicable Compliance Method

Compliance shall be demonstrated using Method 6, 40 CFR Part 60, Appendix A. In the absence of Ohio EPA requiring such testing, the permittee may calculate actual SO2 emission rates for the unit utilizing the following equation:

$$E = EF * P$$

Where:

E=Emissions in pounds per hr
EF = emission factor = 0.24 lb/ton (AP-42 11.1, 1-95)
P = production rate in tons per hour

$$E12=(EF * AAPR)/2000$$

Where:

E12 = emissions in tons per rolling 12-month period
EF = emission factor = 0.24 lb/ton (AP-42 11.1, 1-95)
AAPR= actual asphalt production rate, in tons for the last rolling
12-month period
Emission Limitation

5.75 lbs TOC/hr, 2.3 TPY TOC, based upon a rolling, 12-month summation of the monthly emissions

Applicable Compliance Method

Compliance shall be demonstrated using Method 25, 40 CFR Part 60, Appendix A. In the absence of Ohio EPA requiring such testing, the permittee may calculate actual TOC emission rates for the unit utilizing the following equation:

$$E = EF * P$$

Where:

E=Emissions in pounds per hr
EF = emission factor = 0.046 lb/ton (AP-42 11.1, 1-95)
P = production rate in tons per hour

$$E12=(EF * AAPR)/2000$$

Where:

E12 = emissions in tons per rolling 12-month period
EF = emission factor = 0.046 lb/ton (AP-42 11.1, 1-95)
AAPR= actual asphalt production rate, in tons for the last rolling
12-month period
Emission Limitation

0% opacity

Applicable Compliance Method

Compliance shall be determined in accordance with Test Method 9 as set forth in "Appendix on Test Methods"

in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 1996, and the modifications listed in OAC rule 3745-17-03.

Emission Limitation

Opacity limits

Applicable Compliance Method

Compliance shall be determined in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 1996, and the modifications listed in OAC rule 3745-17-03.

Emission Limitation

0.04 gr/dscf

Applicable Compliance Method

Compliance shall be demonstrated using Method 5, 40 CFR Part 60, Appendix A.

F. **Miscellaneous Requirements**

1. None