

Facility ID: 0448010184 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: 0448010184 Emissions Unit ID: P901 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>
P901 - Batch mix hot mix asphalt plant with a maximum production rate of 200 tons per hour and a presumed inherent physical limitation restricting production to less than 99,500 tons per year, controlled with a baghouse		
Rotary dryer, hot aggregate elevator, vibrating screens, mixer, and hot-side weigh hopper with emissions vented to and controlled by a baghouse	OAC rule 3745-17-07(A)(1)	Visible particulate emissions from any stack shall not exceed 20% opacity as a 6-minute average, unless otherwise specified by the rule.
	OAC rule 3745-17-07(B)(1)	Visible particulate emissions of fugitive dust shall not exceed 20% opacity as a 3-minute average.
	OAC rule 3745-17-08(B), (B)(3)	See Sections A.2.a and A.2.b.
	OAC rule 3745-17-11(B)(1)	Particulate emissions (PE) shall not exceed 52.3 pounds per hour.
	OAC rule 3745-18-06(E)	Sulfur dioxide (SO ₂) emissions shall not exceed 1,044 pounds per hour.
Aggregate storage bins and cold aggregate elevator	OAC rule 3745-17-07(B)	Visible particulate emissions of fugitive dust shall not exceed 20% opacity as a 3-minute average.
	OAC rule 3745-17-08(B), (B)(3)	See Sections A.2.c and A.2.d.

2. **Additional Terms and Conditions**
 - (a) Emissions shall be captured and controlled by a baghouse. The collection efficiency shall be sufficient to minimize or eliminate visible particulate emissions of fugitive dust at the point(s) of capture to the extent possible with good engineering design. Stack emissions shall not exceed 0.030 grain per dry standard cubic foot of exhaust gases or there shall be no visible particulate emissions from the stack, whichever is less stringent. 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 aggregate storage bins. The aggregate loaded into the storage bins shall have a moisture content sufficient to minimize the visible emissions of fugitive dust from conveyors and all transfer points to the dryer.

B. Operational Restrictions

1. The permittee shall operate the baghouse whenever this emissions unit is in operation.
2. The permittee shall only burn natural gas as fuel in this emissions unit.

C. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain a record of each period during which the dryer was operated without the baghouse in operation.
2. The permittee shall maintain monthly records of the following information for this emissions unit:
 - a. the asphalt production for each month, in tons;

- b. the total asphalt production for the calendar year, in tons;
 - c. annual emissions, in tons, of carbon monoxide (CO). Unless site-specific test data is available, the annual CO emissions are calculated by multiplying the annual asphalt production rate in tons per year by the sum of the AP-42 CO emission factors from Tables 11.1-1 and 11.1-14 dated 3/04 (0.40 lb ton from dryer, 1.18E-3 lb/ton for silo filling and 1.35E-3 lb/ton for asphalt load-out) and dividing by 2,000 pounds per ton.
3. The permittee shall perform daily visible emission checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack 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. 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 the visible emission incident; and
 - e. any corrective actions taken to minimize or eliminate the visible emissions.
 4. 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 hot aggregate elevator, vibrating screens, weigh hopper, rotary drum, the aggregate storage bins 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. 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 emissions incident; and
 - e. any corrective actions taken to minimize or eliminate the visible emissions.
 5. The acceptable range for the pressure drop across the baghouse shall be based upon the manufacturer's specifications (2 to 6 inches of water) until such time as any required emission testing is conducted.
 6. The permittee shall properly install, operate, and maintain equipment to continuously monitor the pressure drop, in inches of water, across the baghouse when the controlled emissions unit(s) is/are in operation, including periods of startup and shutdown. The permittee shall record the pressure drop across the baghouse on a daily basis. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s).

Whenever the monitored value for the pressure drop deviates from the limit or range specified in this permit, the permittee shall promptly investigate the cause of the deviation. The permittee shall maintain records of the following information for each investigation:

- a. the date and time the deviation began;
- b. the magnitude of the deviation at that time;
- c. the date the investigation was conducted;
- d. the name(s) of the personnel who conducted the investigation; and
- e. the findings and recommendations.

In response to each required investigation to determine the cause of a deviation, the permittee shall take prompt corrective action to bring the operation of the control equipment within the acceptable range specified in this permit, unless the permittee determines that corrective action is not necessary and documents the reasons for that determination and the date and time the deviation ended. The permittee shall maintain records of the following information for each corrective action taken:

- f. a description of the corrective action;
- g. the date corrective action was completed;
- h. the date and time the deviation ended;
- i. the total period of time (in minutes) during which there was a deviation;
- j. the pressure drop readings immediately after the corrective action was implemented; and
- k. the name(s) of the personnel who performed the work.

Investigation and records required by this paragraph do not eliminate the need to comply with the requirements of OAC rule 3745-15-06 if it is determined that a malfunction has occurred.

This range or limit on the pressure drop across the baghouse is effective for the duration of this permit, unless revisions are requested by the permittee and approved in writing by the appropriate Ohio EPA District Office or local air agency. The permittee may request revisions to the permitted limit or range for the pressure drop based upon information obtained during future testing that demonstrate compliance with the allowable particulate emission rate for the controlled emissions unit(s). In addition, approved revisions to the range or limit will not constitute a relaxation of the monitoring requirements of this permit and may be incorporated into this permit by means of a administrative modification.

D. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify each period when the dryer was operated without the fabric in operation. Each report shall be submitted to the Toledo Division of Environmental Services within 30 days after the deviation occurs.
2. The permittee shall submit an annual report identifying the asphalt production rate and the CO emission rate, in tons per year, for the calendar year. These reports shall be submitted to the Toledo Division of Environmental

Services by January 31 of each year and shall cover the previous calendar year.

3. The permittee shall submit semiannual written deviation (excursion) reports that (a) identify all days during which visible particulate emissions were observed from the stack serving this emissions unit, and (b) describe any corrective actions taken to minimize or eliminate the abnormal visible particulate emissions. If no deviations occurred during a six-month period, the permittee shall submit a semi-annual report, which states that no deviations occurred during that period.

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.

4. 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 hot aggregate elevator, vibrating screens, weigh hopper, rotary drum, the aggregate storage bins and cold aggregate elevator/conveyor serving this emissions unit, and (b) describe any corrective actions taken to minimize or eliminate the visible particulate emissions. If no deviations occurred during a six-month period, the permittee shall submit a semi-annual report, which states that no deviations occurred during that period.

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 quarterly reports that identify the following information concerning the operation of the baghouse during the operation of the emissions unit(s):

- a. each period of time when the pressure drop across the baghouse was outside of the acceptable range;
- b. an identification of each incident of deviation described in "a" (above) where a prompt investigation was not conducted;
- c. an identification of each incident of deviation described in "a" where prompt corrective action, that would bring the pressure drop into compliance with the acceptable range, was determined to be necessary and was not taken; and
- d. an identification of each incident of deviation described in "a" where proper records were not maintained for the investigation and/or the corrective action(s).

If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that period.

These quarterly reports shall be submitted (i.e., postmarked) to the Toledo Division of Environmental Services by January 31, April 30, July 31, and October 31 of each year; and each report shall cover the previous calendar quarter.

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:

Emissions Limitation:

Visible particulate emissions from any stack shall not exceed 20% opacity as a 6-minute average.

If required, compliance shall be determined through visible emission observations performed in accordance with 40 CFR Part 60 ("Standards of Performance for New Stationary Sources"), Appendix A, U.S. EPA Reference Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).

Emission Limitation:

Visible particulate emissions of fugitive dust shall not exceed 20% opacity as a 3-minute average.

Applicable Compliance Method:

If required, 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, 2002, and the applicable modifications listed in paragraphs (B)(3)(a) through (B)(3)(e) of OAC rule 3745-17-03.

Emission Limitation:

PE shall not exceed 52.3 pounds per hour.

Applicable Compliance Method:

Compliance may be demonstrated by multiplying the particulate emission factor from AP-42 Table 11.1-1 dated 3/04 (0.025 lb/ton) by the maximum hourly production rate (200 tons/hr). If required, the permittee shall demonstrate compliance with this emission limitation using Methods 1 through 5 of 40 CFR Part 60, Appendix A along with the procedures outlined under OAC rule 3745-17-03(B)(10).

Emission Limitation:

SO₂ emissions shall not exceed 1,044 pounds per hour.

Applicable Compliance Method:

Compliance may be demonstrated by multiplying the SO₂ emission factor from AP-42 Table 11.1-1-5 dated 3/04 (0.0046 lb/ton) by the maximum production rate (200 tons/hr).

If required, the permittee shall demonstrate compliance with this emission limitation using Methods 1 through 4 and 6C of 40 CFR Part 60, Appendix A.

F. Miscellaneous Requirements

1. None