

Facility ID: 1431302438 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: 1431302438 Emissions Unit ID: J001 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>
J001 - asphalt loading rack	OAC rule 3745-31-05(A)(3) PTI 14-05627	Emissions of particulate matter (PM) and particulate matter 10 microns and less (PM-10) shall not exceed 2.82 pounds per hour.
		Emissions of volatile organic compounds (VOC) shall not exceed 10.0 pounds per hour.
	Emissions of carbon monoxide (CO) shall not exceed 0.13 pound per hour.	
	Emissions of hydrogen sulfide (H2S) shall not exceed 0.16 pound per hour.	
	The hourly emission limitation(s) outlined are based upon the emissions unit's Potential to Emit (PTE). Therefore, no hourly records are required to demonstrate compliance with these limits.	
	The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A).	
	OAC rule 3745-17-07(A)(1)	Visible particulate emissions from any stack shall not exceed 20 percent opacity as a six-minute average, except as provided by rule.
OAC rule 3745-17-11(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).	
OAC rule 3745-31-05(C)	Particulate emissions (PM) and particulate emissions less than 10 microns (PM-10) shall not exceed 6.18 tons per year, based upon a rolling, 12-month summation.	
		Volatile Organic Compound (VOC) emissions shall not exceed 21.91 tons per year, based upon a rolling, 12-month summation.
		Carbon Monoxide (CO) emissions shall not exceed 0.28 ton per year, based upon a rolling, 12-month summation.
		Hydrogen Sulfide (H2S) emissions shall not exceed 0.35 ton per year, based upon a rolling, 12-month summation.

2. **Additional Terms and Conditions**

- (a) Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by compliance with the visible emission limitation, mass emission limitations and production limitation.

B. Operational Restrictions

1. The maximum annual amount of asphalt loaded in this emissions unit shall not exceed 1,023,825 tons per year, based on a rolling, 12-month summation of the asphalt loading rates.

C. Monitoring and/or Record Keeping Requirements

1. 1. The permittee shall maintain monthly records of the following information for this emissions unit in order to monitor compliance with the applicable material throughput restriction:
- the asphalt throughput, in tons for each month; and
 - the rolling, 12-month summation, in tons of the asphalt throughput.
2. The permittee shall maintain monthly records of the following information for this emissions unit in order to demonstrate compliance with the rolling, 12-month summation emission limitations:
- the total emissions, in tons, for VOC, PM, PM10, CO, and H2S for each month; and
 - the updated rolling, 12-month summation emissions total, in tons, for VOC, PM, PM10, CO, H2S, the total amount of emissions for the current month plus the total amount of emissions for the previous eleven calendar months).

D. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports which identify all exceedances of the following:
- an identification of all exceedances of the asphalt throughput restriction, and
 - an identification of all exceedances of the annual emission limitations for VOC, PM, PM-10, CO, H2S.
2. The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.
3. The permittee shall submit quarterly reports which identify the updated rolling, 12-month summation of VOC emissions for each calendar month for this emissions unit. The reports shall be submitted to the Director (the Hamilton County Department of Environmental Services) by January 31, April 30, July 31 and October 31 of each year and shall cover the previous three calendar months (October through December, January through March, April through June and July through September, respectively).

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:

Visible particulate emissions from any stack shall not exceed 20 percent opacity as a six-minute average, except as specified by rule.

Applicable compliance method:

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 Limitations:

Emissions of particulate matter (PM) and particulate matter 10 microns and less (PM-10) shall not exceed 2.82 pound per hour and 6.18 TPY.

Applicable Compliance Method:

PM and PM-10 emissions limitations were calculated using the following equation:

$$\text{lbs PM/PM-10/hour} = (A) \times (C)$$

$$\text{tons PM/PM-10/yr} = (B) \times (C) \times (1 \text{ ton}/2000 \text{ lbs})$$

where,

A = maximum hourly amount of asphalt loaded, tons

B = the annual amount of asphalt loaded, tons

C = PE/PM-10 emission factor of 0.0121 lbs/ton, detailed in PTI application 14-05627, received October 4, 2004.

If required, compliance shall be determined using the following methods:

For PM, Method 5A of 40 CFR Part 60, Appendix A.

For PM-10, Method 201 of 40 CFR Part 51, Appendix M.

Emission Limitation:

Emissions of volatile organic compounds (VOC) shall not exceed 10.0 pounds per hour and 21.91 TPY.

Applicable Compliance Method:

VOC emissions limitations were calculated using the following equation:

$$\text{lbs VOC/hour} = (A) \times (C)$$

$$\text{tons VOC/yr} = (B) \times (C) \times (1 \text{ ton}/2000 \text{ lbs})$$

where,

A = maximum hourly amount of asphalt loaded, tons
 B = the annual amount of asphalt loaded, tons
 C = VOC emission factor of 0.0428 lbs/ton, detailed in PTI application 14-05627, received October 4, 2004.

If required, compliance shall be determined using the following method:

Method 18 or 25 of 40 CFR Part 60, Appendix A.

Emissions Limitations:

Emissions of carbon monoxide (CO) shall not exceed 0.13 pound per hour and 0.28 TPY.

Applicable Compliance Method:

CO emissions limitations were calculated using the following equation:

lbs CO/hour = (A)
 tons CO/yr = (A) / (B) x (C) x (1 ton/2000 lbs)

where,

A = hourly emission rate of 0.13 lb/hr, detailed in PTI application 14-05627, received October 4, 2004.

B = maximum hourly asphalt throughput of 233.75 tons/hour, detailed in PTI application 14-05627, received October 4, 2004.

C = annual asphalt throughput.

If required, compliance shall be determined using the following method:

Method 10 or 10B of 40 CFR Part 60, Appendix A.

Emission Limitations:

Emissions of hydrogen sulfide (H₂S) shall not exceed 0.16 pound per hour and 0.35 TPY.

Applicable Compliance Method:

H₂S emissions limitations were calculated using the following equation:

lbs H₂S/hour = (A)
 tons H₂S/yr = (A) / (B) x (C) x (1 ton/2000 lbs)

where,

A = hourly emission rate of 0.16 lb/hr, detailed in PTI application 14-05627, received October 4, 2004.

B = maximum hourly asphalt throughput of 233.75 tons/hour, detailed in PTI application 14-05627, received October 4, 2004.

C = annual asphalt throughput

If required, compliance shall be determined using the following method:

Method 15 of 40 CFR Part 60, Appendix A.

2. Compliance with the production limitation in section B.1 shall be demonstrated by the record keeping in section C.1.

F. Miscellaneous Requirements

1. Modeling to demonstrate compliance with the Ohio EPA's "Air Toxic Policy" was not necessary because the emissions unit's maximum annual emissions for each toxic compound will be less than 1.0 ton. OAC Chapter 3745-31 requires permittees to apply for and obtain a new or modified permit to install prior to making a "modification" as defined by OAC rule 3745-31-01. The permittee is hereby advised that changes in the composition of the materials, or use of new materials, that would cause the emissions of any pollutant that has a listed TLV to increase to above 1.0 ton per year may require the permittee to apply for and obtain a new permit to install.
2. The following terms and conditions of this permit are federally enforceable: A, B, C, D and E.