

Facility ID: 0630010130 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: 0630010130 Emissions Unit ID: P005 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>
Engine Test Stall #3	OAC rule 3745-31-05(A)(3) (PTI 06-5092)	PM10 emissions shall not exceed 0.10 lb/hr and 0.16 ton/yr. Organic compound (OC) emissions shall not exceed 1.5 lbs/hr and 2.43 tons/yr. Nitrogen oxides (NOx) emissions shall not exceed 4.6 lbs/hr and 7.45 tons/yr. Carbon monoxide (CO) emissions shall not exceed 12.2 lbs/hr and 19.76 tons/yr.
	OAC rule 3745-35-07(B) (PTI 06-5092)	See section A.2.a. The combined annual emissions (based upon a rolling, 12-month summation) for emissions units P003, P004, and P005 shall not exceed the following: PM10: 0.5 ton/yr; OC: 7.3 tons/yr; NOx: 22.4 tons/yr; and CO: 59.3 tons/yr.
	OAC rule 3745-17-07(A) OAC rule 3745-17-11(B)(1) OAC rule 3745-23-06(B)	See sections B.1. and A.2.a. See section A.2.b. See section A.2.c. See section A.2.d.

2. Additional Terms and Conditions

- (a) The annual emission limitations are based on the hourly emission limitations and operating hours restrictions established in PTI 06-5092.
This emissions unit is exempt from the visible particulate emission limitation specified in OAC rule 3745-17-07(A), pursuant to OAC rule 3745-17-07(A)(3)(h), because the emissions unit is not subject to the requirements of OAC rule 3745-17-11.
The uncontrolled mass rate of particulate emissions from this emissions unit is less than 10 lbs per hour. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(a)(i), Figure II of OAC rule 3745-17-11 does not apply. Table I of OAC rule 3745-17-11 does not apply because the process weight rate, as defined in OAC rule 3745-17-01(B)(14), is equal to zero.*

* The only materials introduced into this process are liquid fuels that are used solely for the purpose of combustion.
The permittee has satisfied the "latest available control techniques and operating practices" required pursuant to OAC rule 3745-23-06(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 06-5092.

B. Operational Restrictions

1. The maximum annual operating hours for this emissions unit shall not exceed 3240 hours based upon a rolling, 12-month summation.

C. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain monthly records of the following information for this emissions unit:
 - a. the monthly operating hours; and
 - b. the rolling, 12-month summation of operating hours.

D. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify all exceedances of the rolling, 12-month operating hours limitation. The deviation reports shall be submitted within 30 days after the deviation occurs.

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 Limitations:

PM10 emissions shall not exceed 0.10 lb/hr and 0.16 ton/yr.

Applicable Compliance Method:

Compliance shall be demonstrated by the following one time calculation using the emission factor (based on federal heavy-duty truck engine emission standards) provided by the permittee.

$$E = (A \times B) / C$$

where:

E = emission rate, in lb/hr;

A = emission factor, in g/hp-hr;

B = 327.75 hp-hr (based on actual engine test data); and

C = 453.6 grams per pound.

$$E = (0.1 \text{ g PM10/hp-hr} \times 327.75 \text{ hp-hr}) / 453.6 \text{ g/lb} = 0.07 \text{ lb PM10/hr}$$

If required, the permittee shall demonstrate compliance with the emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5.

The annual emissions (ton/yr) shall be determined by multiplying the calculated lb/hr emissions by the annual hours of operation and then dividing by 2000 lbs/ton. Therefore, provided compliance is shown with the short term and operating hours limitations, compliance shall also be shown with the annual emission limitation.

Emission Limitations:

OC emissions shall not exceed 1.5 lbs/hr and 2.43 tons/yr.

Applicable Compliance Method:

Compliance shall be demonstrated by the following one time calculation using the emission factor (based on federal heavy-duty truck engine emission standards) provided by the permittee.

$$E = (A \times B) / C$$

where:

E = emission rate, in lb/hr;

A = emission factor, in g/hp-hr;

B = 327.75 hp-hr (based on actual engine test data); and

C = 453.6 grams per pound.

$$E = (1.3 \text{ g OC/hp-hr} \times 327.75 \text{ hp-hr}) / 453.6 \text{ g/lb} = 0.94 \text{ lb OC/hr}$$

If required, the permittee shall demonstrate compliance with the emission limitation through emission testing performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and Method 25A. Alternative U.S. EPA-approved test methods may be used with prior approval from the Ohio EPA Southeast District Office.

The annual emissions (tons/yr) shall be determined by multiplying the calculated lbs/hr emissions by the annual hours of operation and then dividing by 2000 lbs/ton. Therefore, provided compliance is shown with the short term and operating hours limitations, compliance shall also be shown with the annual emission limitation.

Emission Limitations:

NOx emissions shall not exceed 4.6 lbs/hr and 7.45 tons/yr.

Applicable Compliance Method:

Compliance shall be demonstrated by the following one time calculation using the emission factor (based on federal heavy-duty truck engine emission standards) provided by the permittee.

$$E = (A \times B) / C$$

where:

E = emission rate, in lbs/hr;

A = emission factor, in g/hp-hr;

B = 327.75 hp-hr (based on actual engine test data); and
C = 453.6 grams per pound.

$$E = (5.0 \text{ g NOx/hp-hr} \times 327.75 \text{ hp-hr}) / 453.6 \text{ g/lb} = 3.6 \text{ lbs NOx/hr}$$

If required, the permittee shall demonstrate compliance with the emission limitation through emission testing performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and Method 7. Alternative U.S. EPA-approved test methods may be used with prior approval from the Ohio EPA Southeast District Office.

The annual emissions (tons/yr) shall be determined by multiplying the calculated lbs/hr emissions by the annual hours of operation and then dividing by 2000 lbs/ton. Therefore, provided compliance is shown with the short term and operating hours limitations, compliance shall also be shown with the annual emission limitation.
Emission Limitations:

CO emissions shall not exceed 12.2 lbs/hr and 19.76 tons/yr.

Applicable Compliance Method:

Compliance shall be demonstrated by the following one time calculation using the emission factor (based on federal heavy-duty truck engine emission standards) provided by the permittee.

$$E = (A \times B) / C$$

where:

E = emission rate, in lbs/hr;
A = emission factor, in g/hp-hr;
B = 327.75 hp-hr (based on actual engine test data); and
C = 453.6 grams per pound.

$$E = (15.5 \text{ g CO/hp-hr} \times 327.75 \text{ hp-hr}) / 453.6 \text{ g/lb} = 11.2 \text{ lbs CO/hr}$$

If required, the permittee shall demonstrate compliance with the emission limitation through emission testing performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and Method 10. Alternative U.S. EPA-approved test methods may be used with prior approval from the Ohio EPA Southeast District Office.

The annual emissions (tons/yr) shall be determined by multiplying the calculated lbs/hr emissions by the annual hours of operation and then dividing by 2000 lbs/ton. Therefore, provided compliance is shown with the short term and operating hours limitations, compliance shall also be shown with the annual emission limitation.

F. Miscellaneous Requirements

1. None