

Facility ID: 0812720352 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: 0812720352 Emissions Unit ID: P001 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>
P001 - Jet Engine Test Cell Building 120 "F" Avenue	OAC rule 3745-31-05(A)(3) PTI 08-04451	The particulate emissions (PE) for this emissions unit shall not exceed 6.73 pounds per hour (lbs/hr) and 0.50 ton per year (TPY), as a rolling 12-month summation.  The nitrogen oxides (NOx) emissions from this emissions unit shall not exceed 151.1 lbs/hr and 11.3 TPY, as a rolling 12-month summation.  The sulfur dioxide (SO2) emissions from this emissions unit shall not exceed 13.1 lbs/hr and 0.98 TPY, as a rolling 12-month summation.  The organic compound (OC) emissions from this emissions unit shall not exceed 53.6 lbs/hr and 4.02 TPY, as a rolling 12-month summation.  The carbon monoxide (CO) emissions from this emissions unit shall not exceed 110.7 lbs/hr and 8.30 TPY, as a rolling 12-month summation.
	OAC rule 3745-17-11(B)(5)(b)	The PE limit established by this rule is less stringent than that established by OAC rule 3745-31-05(A)(3).

**2. Additional Terms and Conditions**

- (a) None

**B. Operational Restrictions**

1. The annual fuel usage for this emissions unit shall not exceed 1,155,105 gallons based on a rolling, 12-month basis.

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

1. The permittee shall maintain monthly records of the following information:
  - a. The number of engine tests performed each month.
  - b. The number of hours each month in which testing was performed at each engine power setting.
  - c. The fuel flow rate utilized for each engine power setting during testing, in pounds per hour.
  - d. The fuel usage for each month, in gallons.
  - e. The rolling, 12-month summation of the fuel usage rates, in gallons.
  - f. The rolling, 12-month summation of emissions of particulates,

NOx, SO2, OC, and CO, in tons.

**D. Reporting Requirements**

1. The permittee shall notify the Director (the RAPCA) in writing of any exceedances of the rolling, 12-month fuel usage limitation, and/or the rolling, 12-month emission limitations. The notification shall include a copy of such record and shall be sent to the Director (the RAPCA) within 45 days after the exceedance occurs.

**E. Testing Requirements**

1. Compliance with the emission limitation(s) specified in section A.1 shall be determined in accordance with the following method(s):

**a. Emission Limitation-**

The PE from this emissions unit shall not exceed 6.73 lbs/hr

**Applicable Compliance Method-**

Compliance shall be based upon record keeping as specified in C.1 and shall be determined by the summation of the hourly PE totals at each power setting. The amount of PE emitted from testing at each engine power setting shall be calculated by multiplying the fuel flow rate (lbs/hr) by the total time tested and by the particulate emission factor (as specified in USAF Air Emission Inventory Guidance Document for Mobile Sources at Air Force Installations, Tables 3-3 and 3-5, January 2002).

**b. Emission Limitation -**

The PE from this emissions unit shall not exceed 0.50 TPY, as a rolling 12-month summation

**Applicable Compliance Method -**

Compliance shall be based upon record keeping as specified in C.1 and shall be determined by the summation of the monthly PE totals at each power setting. The amount of PE emitted from testing at each engine power setting shall be calculated by multiplying the fuel flow rate (lbs/hr) by the total time tested (hr/month) and by the particulate emission factor (as specified in USAF Air Emission Inventory Guidance Document for Mobile Sources at Air Force Installations, Tables 3-3 and 3-5, January 2002).

**c. Emission Limitation-**

The NOx emissions from this emissions unit shall not exceed 151.1 lbs/hr.

**Applicable Compliance Method-**

Compliance shall be based upon record keeping as specified in C.1 and shall be determined by the summation of the hourly NOx emission totals at each power setting. The amount of NOx emitted from testing at each engine power setting shall be calculated by multiplying the fuel flow rate (lbs/hr) by the total time tested and by the NOx emission factor (as specified in USAF Air Emission Inventory Guidance Document for Mobile Sources at Air Force Installations, Tables 3-3 and 3-5, January 2002).

**d. Emission Limitation -**

The NOx emissions from this emissions unit shall not exceed 11.3 TPY NOx, as a rolling 12-month summation

**Applicable Compliance Method -**

Compliance shall be based upon record keeping as specified in C.1 and shall be determined by the summation of the monthly NOx emission totals at each power setting. The amount of NOx emitted from testing at each engine power setting shall be calculated by multiplying the fuel flow rate (lbs/hr) by the total time tested (hr/month) and by the NOx emission factor (as specified in USAF Air Emission Inventory Guidance Document for Mobile Sources at Air Force Installations, Tables 3-3 and 3-5, January 2002).

**e. Emission Limitation-**

The SO2 emissions from this emissions unit shall not exceed 13.1 lbs/hr

**Applicable Compliance Method-**

Compliance shall be based upon record keeping as specified in C.1 and shall be determined by the summation of the hourly SO2 emission totals at each power setting. The amount of SO2 emitted from testing at each engine power setting shall be calculated by multiplying the fuel flow rate (lbs/hr) by the total time tested and by the SO2 emission factor (as specified in USAF Air Emission Inventory Guidance Document for Mobile Sources at Air Force Installations, Table 3-6, January 2002).

**f. Emission Limitation -**

The SO2 emissions from this emissions unit shall not exceed 0.98 TPY, as a rolling 12-month summation

**Applicable Compliance Method -**

Compliance shall be based upon record keeping as specified in C.1 and shall be determined by the summation of the monthly SO2 emission totals at each power setting. The amount of SO2 emitted from testing at each engine power setting shall be calculated by multiplying the fuel flow rate (lbs/hr) by the total time tested (hr/month) and by the SO2 emission factor (as specified in USAF Air Emission Inventory Guidance Document for Mobile Sources at Air Force Installations, Table 3-6, January 2002).

**g. Emission Limitation-**

The OC emissions from this emissions unit shall not exceed 53.6 lbs/hr

**Applicable Compliance Method-**

Compliance shall be based upon record keeping as specified in C.1 and shall be determined by the summation of the hourly OC emission totals at each power setting. The amount of OC emitted from testing at each engine power setting shall be calculated by multiplying the fuel flow rate (lbs/hr) by the total time tested and by the OC emission factor (as specified in USAF Air Emission Inventory Guidance Document for Mobile Sources at Air Force Installations, Tables 3-3 and 3-5, January 2002).

**h. Emission Limitation -**

The OC emissions from this emissions unit shall not exceed 4.02 TPY, as a rolling 12-month summation

**Applicable Compliance Method -**

Compliance shall be based upon record keeping as specified in C.1 and shall be determined by the summation of the monthly OC emission totals at each power setting. The amount of OC emitted from testing at each engine power setting shall be calculated by multiplying the fuel flow rate (lbs/hr) by the total time tested (hr/month) and by the OC emission factor (as specified in USAF Air Emission Inventory Guidance Document for Mobile Sources at Air Force Installations, Tables 3-3 and 3-5, January 2002).

**i. Emission Limitation-**

The CO emissions from this emissions unit shall not exceed 110.7 lbs/hr

**Applicable Compliance Method-**

Compliance shall be based upon record keeping as specified in C.1 and shall be determined by the summation of the hourly CO emission totals at each power setting. The amount of CO emitted from testing at each engine power setting shall be calculated by multiplying the fuel flow rate (lbs/hr) by the total time tested and by the CO emission factor (as specified in USAF Air Emission Inventory Guidance Document for Mobile Sources at Air Force Installations, Tables 3-3 and 3-5, January 2002).

**j. Emission Limitation -**

The CO emissions from this emissions unit shall not exceed 8.30 TPY, as a rolling, 12-month summation

**Applicable Compliance Method -**

Compliance shall be based upon record keeping as specified in C.1 and shall be determined by the summation of the monthly CO emission totals at each power setting. The amount of CO emitted from testing at each engine power setting shall be calculated by multiplying the fuel flow rate (lbs/hr) by the total time tested (hr/month) and by the CO emission factor (as specified in USAF Air Emission Inventory Guidance Document for Mobile Sources at Air Force Installations, Tables 3-3 and 3-5, January 2002).

**F. Miscellaneous Requirements**

1. None