Facility ID: 1318120179 Issuance type: Title V Preliminary Proposed Permit

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 III" and before "I. Applicable Emissions Limitations..." has been added to aid in document conversion, and was not part of the original issued permit.

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Part II - Specific Facility Terms and Conditions

a **State and Federally Enforceable Section**

1. All asbestos renovation and demolition activities conducted at this facility shall be performed in accordance with the applicable requirements specified in 40 CFR Part 61 and OAC Chapter 3745-20.

2. This facility is subject to the applicable requirements specified in OAC Chapter 3745-25. In accordance with Ohio EPA Engineering Guide #64, the emission control action programs, as specified in OAC rule 3745-25-03, shall be developed and submitted within 60 days after receiving notification from the Ohio EPA.

3. The permittee shall comply with all applicable provisions specified in 40 CFR Part 82, Subparts B and F as related to the operations at this facility.

4. The permittee may be subject to the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Engine Test Cells/Stands, 40 CFR Part 63, Subpart PPPPP. U.S. EPA failed to promulgate this standard by May 15, 2002, the Maximum Achievable Control Technology (MACT) hammer date. In accordance with 40 CFR Part 63, Subpart B (40 CFR Parts 63.50 through 63.56), the permittee shall submit an application to revise the permit to include equivalent emission limitations as a result of a case-by-case MACT determination. The application shall be submitted in two parts. The deadline to submit the Part I application, as specified in 40 CFR Part 63.53, was May 15, 2002.

5. If the final NESHAP standard is not promulgated by the deadline specified by U.S. EPA, the permittee shall submit the Part II application as specified in 40 CFR Part 63.53. The Part II application shall be submitted within 60 days after the deadline to promulgate the respective standard or by May 15, 2003, whichever is later. It must contain the following information, unless otherwise specified by future U.S. EPA regulations:

   a. for a new affected source, the anticipated date of startup of operation;

   b. the hazardous air pollutants (HAPs) emitted by each affected source in the relevant source category and an estimated total uncontrolled and controlled emission rate for HAPs from the affected source;

   c. any existing federal, State, or local limitations or requirements applicable to the affected source;

   d. for each affected emission point or group of affected emission points, an identification of control technology in place;

   e. information relevant to establishing the MACT floor (or MACT emission limitation), and, at the option of the permittee, a recommended MACT floor; and

   f. any other information reasonably needed by the permitting authority including, at the discretion of the permitting authority, information required pursuant to Subpart A of 40 CFR Part 63.

6. The Part II application for a MACT determination may, but is not required to, contain the following information:

   a. recommended emission limitations for the affected source and support information (the permittee may recommend a specific design, equipment, work practice, or operational standard, or combination thereof, as an emission limitation);

   b. a description of the control technologies that would be applied to meet the emission limitation, including technical information on the design, operation, size, estimated control efficiency and any other information deemed appropriate by the permitting authority, and identification of the affected sources to which the control technologies must be applied; and

   c. relevant parameters to be monitored and frequency of monitoring to demonstrate continuous compliance with the MACT emission limitation over the applicable reporting period.

7. If the NESHAP is promulgated before the Part II application is due for the relevant source category, the permittee may be subject to the rule as an existing major source with a compliance date as specified in the NESHAP. If subject, the permittee shall submit the following notifications:

   a. Unless otherwise specified in the relevant Subpart, within 120 days after promulgation of a 40 CFR Part 63 Subpart to which the source is subject, the permittee shall submit an Initial Notification Report that contains the following information, in accordance with 40 CFR Part 63.9(b)(2):

i. the name and mailing address of the permittee;

ii. the physical location of the source if it is different from the mailing address;

iii. identification of the relevant MACT standard and the source's compliance date;

iv. a brief description of the nature, design, size, and method of operation of the source, and an identification of the types of emission points within the affected source subject to the relevant standard and the types of HAPs emitted; and

v. a statement confirming the facility is a major source for HAPs.
b. Unless otherwise specified in the relevant Subpart, within 60 days following completion of any required compliance demonstration activity specified in the relevant Subpart, the permittee shall submit a notification of compliance status that contains the following information:

i. the methods used to determine compliance;

ii the results of any performance tests, visible emission observations, continuous monitoring systems performance evaluations, and/or other monitoring procedures or methods that were conducted;

iii. the methods that will be used for determining continuous compliance, including a description of monitoring and reporting requirements and test methods;

iv. the type and quantity of HAPs emitted by the source, reported in units and averaging times in accordance with the test methods specified in the relevant Subpart;

v. an analysis demonstrating whether the affected source is a major source or an area source;

vi. a description of the air pollution control equipment or method for each emission point, including each control device or method for each HAP and the control efficiency (percent) for each control device or method; and

vii. a statement of whether or not the permittee has complied with the requirements of the relevant Subpart.

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b **State Only Enforceable Section**

1. The following insignificant emissions units are located at this facility:

G002 - CEP 1 gasoline dispensing facility (GDF) with a 20,000-gallon underground unleaded gasoline storage tank with single point vapor recovery (VB-1) & two dispensers;
G202 - CEP 2 gasoline dispensing facility (GDF) with a 10,000-gallon underground unleaded gasoline storage tank #21 (T207) with single point vapor recovery (VB-1) & one dispenser;
B201 - CEP 2 Cardinal indirect NG-fired heater #32 (2.7 MMBtu/hr);
B202 - CEP 2 Cardinal indirect NG-fired heater #34 (2.7 MMBtu/hr);
B203 - CEP 2 Cardinal indirect NG-fired heater #37 (2.7 MMBtu/hr);
B204 - CEP 2 Cardinal indirect NG-fired heater #39 (2.7 MMBtu/hr);
B205 - CEP 2 Cardinal indirect NG-fired heater #40 (2.7 MMBtu/hr);
B206 - CEP 2 Mamoth indirect NG-fired heater #45 (2.7 MMBtu/hr);
B207 - CEP 2 Cardinal indirect NG-fired heater #49 (1.5 MMBtu/hr);
B208 - CEP 2 Cardinal indirect NG-fired heater #50 (2.7 MMBtu/hr);
B209 - CEP 2 Cardinal indirect NG-fired heater #53 (2.7 MMBtu/hr);
B210 - CEP 2 Cardinal indirect NG-fired heater #57 (2.7 MMBtu/hr);
B211 - CEP 2 Cardinal indirect NG-fired heater #59 (2.7 MMBtu/hr);
B212 - CEP 2 Cardinal indirect NG-fired heater #58 (2.7 MMBtu/hr);
B213 - CEP 2 Cardinal indirect NG-fired heater #63 (2.7 MMBtu/hr);
B214 - CEP 2 Cardinal indirect NG-fired heater #64 (2.7 MMBtu/hr);
B215 - CEP 2 Cardinal indirect NG-fired heater #62 (2.7 MMBtu/hr);
B216 - CEP 2 Cardinal indirect NG-fired heater #64 (2.7 MMBtu/hr);
B217 - CEP 2 Cardinal indirect NG-fired heater #71 (2.7 MMBtu/hr);
B218 - CEP 2 Cardinal indirect NG-fired heater #70 (2.7 MMBtu/hr);
B219 - CEP 2 Cardinal indirect NG-fired heater #31 (2.7 MMBtu/hr);
B226 - CEP 2 2.53 MMBtu/hr direct-fired air heater cooler AHU-201;
B227 - CEP 2 2.53 MMBtu/hr direct-fired air heater cooler AHU-202;
B228 - CEP 2 3.16 MMBtu/hr direct-fired air heater cooler AHU-203;
B229 - CEP 2 3.16 MMBtu/hr direct-fired air heater cooler AHU-204;
B230 - CEP 2 3.16 MMBtu/hr direct-fired air heater cooler AHU-205;
B231 - CEP 2 2.74 MMBtu/hr direct-fired air heater cooler AHU-206;
B232 - CEP 2 3.16 MMBtu/hr direct-fired air heater cooler AHU-207;
B233 - CEP 2 2.74 MMBtu/hr direct-fired air heater cooler AHU-214;
B234 - CEP 2 3.16 MMBtu/hr direct-fired air heater cooler AHU-209;
B235 - CEP 2 2.74 MMBtu/hr direct-fired air heater cooler AHU-210;
B236 - CEP 2 2.74 MMBtu/hr direct-fired air heater cooler AHU-211;
B237 - CEP 2 2.74 MMBtu/hr direct-fired air heater cooler AHU-212;
B238 - CEP 2 2.53 MMBtu/hr direct-fired air heater cooler AHU-213;
B239 - CEP 2 2.74 MMBtu/hr direct-fired air heater cooler AHU-215;
B240 - CEP 2 2.74 MMBtu/hr direct-fired air heater cooler AHU-216;
B241 - CEP 2 2.53 MMBtu/hr direct-fired air heater cooler AHU-217;
B242 - CEP 2 4.54 MMBtu/hr direct-fired air heater cooler AHU-219;
B243 - CEP 2 3.17 MMBtu/hr direct-fired air heater cooler AHU-222;
B244 - CEP 2 3.18 MMBtu/hr direct-fired air heater cooler AHU-223;
B245 - CEP 2 4.54 MMBtu/hr direct-fired air heater cooler AHU-224;

B246 - CEP 2 4.54 MMBtu/hr direct-fired air heater cooler AHU-225;
B247 - CEP 2 4.54 MMBtu/hr direct-fired air heater cooler AHU-226;
B248 - CEP 2 4.54 MMBtu/hr direct-fired air heater cooler AHU-227;
B249 - CEP 2 4.54 MMBtu/hr direct-fired air heater cooler AHU-228;
B250 - CEP 2 4.54 MMBtu/hr direct-fired air heater cooler AHU-229;
B251 - CEP 2 1.0 MMBtu/hr gas-fired hot water heater GWH-101;
B252 - CEP 2 1.0 MMBtu/hr gas-fired hot water heater GWH-102;
B253 - CEP 2 5.0 MMBtu/hr gas-fired hot water boiler HWB-101;
B254 - CEP 2 5.0 MMBtu/hr gas-fired hot water boiler HWB-102;
B255 - CEP 2 3.5 MMBtu/hr gas-fired hot water boiler HWB-302;
K004 - CEP 1 maintenance paint spray booth;
K203 - CEP 2 maintenance paint spray booth;
P014 - CEP 1 maintenance cutter grind facility;
P241 - CEP 2 piston pin grinders, OM-322 & OM-323 (OM=oil mist collector);
P244 - CEP 2 maintenance crib activities;
P246 - CEP 2 emergency 39 kw generator;
P247 - CEP 2 emergency 39 kw generator;
P248 - CEP 2 emergency 39 kw generator;
P249 - CEP 2 emergency 39 kw generator;
P250 - CEP 2 emergency 39 kw generator;
P251 - CEP 2 emergency 39 kw generator;
P252 - CEP 2 crankshaft heat treat furnace #1;
P253 - CEP 2 crankshaft heat treat furnace #2;
P254 - CEP 2 cylinder block machining operations & OM-302;
P255 - CEP 2 cylinder block machining operations & OM-303;
P256 - CEP 2 cylinder block machining operations, OM-301 & OM-324;
P257 - CEP 2 cylinder block machining operations & OM-304;
P258 - CEP 2 cylinder block machining operations & OM-305;
P259 - CEP 2 crankshaft machining operation & OM-306;
P260 - CEP 2 crankshaft machining operation & OM-307;
P261 - CEP 2 crankshaft machining operations & OM-308;
P262 - CEP 2 crankshaft machining operations & OM-309;
P263 - CEP 2 crankshaft machining operations & OM-310;
P265 - CEP 2 crankshaft machining operations, DC-301 & DC-305;
P266 - CEP 2 crankshaft electric induction hardener and quench operations 66-100-01;
P267 - CEP 2 crankshaft electric induction hardener and quench operations 66-100-01;
P268 - CEP 2 cylinder head machining operations & OM-313;
P269 - CEP 2 cylinder head machining operations & OM-315;
P270 - CEP 2 cylinder head machining operations & OM-314;
P271 - CEP 2 camshaft machining operation & OM-317;
P272 - CEP 2 camshaft machining operation & OM-318;
P273 - CEP 2 camshaft machining operation & OM-319;
P274 - CEP 2 camshaft machining operation & OM-316;
P275 - CEP 2 camshaft machining operation & OM-320;
P276 - CEP 2 connecting rod machining operations & OM-312;
P277 - CEP 2 connecting rod machining operations & OM-311;
P278 - CEP 2 connecting rod machining operations & DC-302;
P279 - CEP 2 maintenance cutter grind facility & OM-321;
P280 - CEP 2 V6 engine aluminum heads machining, OM-326, OM-327, & OM-328;
P284 - CEP 2 aluminum cylinder block machining & OM-329;
T002 - CEP 1 gasoline underground storage tank;
T004 - CEP 1 engine oil above ground tank 1;
T005 - CEP 1 engine oil above ground tank 2;
T006 - CEP 1 honing oil above ground tank;
T007 - CEP 1 lubricating oil above ground tank;
T008 - CEP 1 virgin hydraulic oil above ground tank;
T009 - CEP 1 reclaimed hydraulic oil above ground tank;
T010 - CEP 1 virgin soluble oil above ground tank;
T011 - CEP 1 reclaimed soluble oil above ground tank;
T203 - CEP 2 oil storage tank;
T204 - CEP 2 oil storage tank;
T205 - CEP 2 oil storage tank;
T206 - CEP 2 oil storage tank;
T207 - CEP 2 gasoline underground storage tank #21;
T208 - CEP 2 10,000-gallon premium gasoline underground storage tank #22;
Z001 - CEP 1 and 2 emergency fire pumps and generators;
Z002 - CEP 1 and 2 controlled grinding/machining operations vented inside plant;
Z003 - CEP 1 and 2 uncontrolled grinding/machining operations vented inside plant;
Z004 - CEP 1 and 2 miscellaneous tanks (e.g., day tanks);
Z005 - CEP 1 and 2 service package oilers;
Z007 - CEP 1 and 2 maintenance parts cleaners;
Z008 - CEP 1 and 2 detergent washers;
Z020 - CEP 1 and 2 ink jet part marking operations vented inside plant; and
Z203 - CEP 2 crankshaft oiler.

Each insignificant emissions unit at this facility must comply with all applicable State and federal regulations, as well as any emission limitations and/or control requirements contained within a permit to install for the emissions unit.

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Part III - Terms and Conditions for Emissions Units

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Facility ID: 1318120179 Emissions Unit ID: P245 Issuance type: Title V Preliminary Proposed Permit

A. State and Federally Enforceable Section

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

1. None.

I. **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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
P245: CEP 2 dynamometer internal combustion unleaded gasoline engine test facility with 3 new engine test laboratory cells, a B & A Body and Assembly Cell (2 hours/week, for testing returned engines), an afterburner and an interlock	OAC rule 3745-31-05(A)(3) (PTI #13-03495)	Organic compound (OC) emissions shall not exceed 0.4 lb/hr, 9.6 lbs/day, and 1.8 tons/year. Carbon monoxide (CO) emissions shall not exceed 8.1 lbs/hr, 194.4 lbs/day, and 35.5 tons/year. See Sections A.I.2.a, A.II.1, and A.II.2 below. Compliance with this rule also includes compliance with OAC rule 3745-31-05(D).
	OAC rule 3745-31-05(D) (PTI #13-03495)	Nitrogen oxides (NOx) emissions shall not exceed 15.0 lbs/hr, 360.0 lbs/day, and 30.7 tons per rolling, 12-month period.
	OAC rule 3745-17-07(A)	None, see Section A.I.2.c below.
	OAC rule 3745-17-11(B)(1)	None, see Section A.I.2.b below.
	OAC rule 3745-18-06	None, exempt pursuant to OAC rule 3745-18-06(B).
	OAC rule 3745-21-08(B)	None, see Section A.I.2.d below.
	OAC rule 3745-23-06(B)	None, see Section A.I.2.e below.

2. **Additional Terms and Conditions**

a. Engine exhaust CO and OC emissions from this emissions unit shall be incinerated at not less than 1400 degrees Fahrenheit for 0.3 (by design) second or longer in a natural gas-fired direct-flame afterburner that achieves a minimum 95% control (destruction) efficiency of the CO and OC emissions. The afterburner shall be equipped with a continuous temperature monitor, recorder and controller, an interlocking device, and an indicating pyrometer positioned at the operator's work station.

b. The uncontrolled mass rate of particulate emissions from this emissions unit is less than 10 pounds per hour. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(a)(ii), Figure II of OAC rule 3745-17-11 does not apply. In addition, Table I of OAC rule 3745-17-11 does not apply because the process weight, as defined in OAC rule 3745-17-01(B)(14), is equal to zero*.

* The only material introduced into the process is unleaded gasoline which is solely used as fuel for the purpose of combustion.

c. This emissions unit is exempt from the visible particulate emission limitations 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.

d. The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(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 13-03495.

On November 5, 2002, OAC rule 3745-21-08 was revised to delete paragraph (B); therefore, paragraph (B) is no longer part of the State regulations. However, that rule revision has not yet been

submitted to the U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the U.S. EPA approves the revisions to OAC rule 3745-21-08, the requirement to satisfy the "best available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio.

e. 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 13-03495.

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II. **Operational Restrictions**

1. The maximum annual unleaded gasoline consumption for this emissions unit shall not exceed 192,000 gallons per rolling, 12-month period.

2. The permittee shall operate and maintain an interlocking device that does not allow this emissions unit to start-up or operate unless the afterburner temperature is greater than 1400 degrees Fahrenheit.

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

1. The permittee shall operate and maintain a continuous temperature monitor, recorder, and controller which measures, records, and controls the combustion chamber temperature in degrees Fahrenheit within the afterburner when the emissions unit is in operation. The monitoring, recording, and controlling devices shall be capable of accurately measuring, recording, and controlling the desired parameter. The temperature monitor, recorder, and controller shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, with any modifications deemed necessary by the permittee.

   The permittee shall collect and record the following information for each day:

   a. All 3-hour blocks of time during which the average combustion chamber temperature within the afterburner, when the emissions unit was in operation, was less than 1400 degrees Fahrenheit.

   b. A log of the downtime for the capture (collection) system, control device, and monitoring equipment when the associated emissions unit was in operation.

2. The permittee shall maintain monthly records of the following:

   a. the gallons of unleaded gasoline consumed;

   b. the rolling, 12-month summation of the gallons of unleaded gasoline consumed;

   c. the total NOx emissions for this emissions unit (calculated by multiplying the NOx emission factor established during the most recent emission tests that demonstrated that the emissions unit was in compliance by the monthly value from A.III.2.a), in tons; and

   d. the rolling, 12-month summation of the NOx emissions for this emissions unit, in tons.

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IV. **Reporting Requirements**

1. The permittee shall submit quarterly deviation (excursion) reports that identify the following:

   a. all 3-hour blocks of time during which the average combustion chamber temperature within the afterburner was less than 1400 degrees Fahrenheit when the emissions unit was in operation;

   b. all exceedances of the rolling, 12-month unleaded gasoline consumption restriction; and

   c. all exceedances of the rolling, 12-month NOx emission limitation.

2. The permittee shall submit the quarterly deviation reports in accordance with paragraph A.1.c.ii of the General Terms and Conditions of this permit.

3. The permittee shall submit annual reports that specify the total emissions of OC and CO from this emissions unit for the previous calendar year. The reports shall be submitted by January 31 of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual Fee Emission Report.

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V. **Testing Requirements**

1. Compliance with the emission limitations in Section A.I.1 of these terms and conditions shall be determined in accordance with the following methods:

2. Emission Limitation:
OC emissions shall not exceed 0.4 lb OC/hr.

Applicable Compliance Method:
The hourly OC emission limitation was developed using worst case uncontrolled emission test data obtained from testing three prototype engines at 7000 revolutions per minute that established an emission rate of 7 lbs of uncontrolled OC/hr. Applying an afterburner control efficiency of 95% gave an emission rate of 0.35 lb of OC/hr. This emission rate was rounded to 0.4 lb of OC/hr.

The permittee shall demonstrate compliance with this emission limitation through emission testing. See Section A.V.6.

a. Emission Limitation:
OC emissions shall not exceed 9.6 lbs/day.

Applicable Compliance Method:
This emission limitation was established by multiplying the hourly OC emission limitation by 24 hours/day to give an emission rate of 9.6 lbs of OC/day. Compliance with the daily emission limitation is assumed provided compliance is maintained with the hourly emission limitation. An explanation of the hourly emission limitation can be found in Section A.V.2.

b. Emission Limitation:
OC emissions shall not exceed 1.8 tons/year.

Applicable Compliance Method:
This emission limitation was established by multiplying the hourly OC emission limitation by 8760 hours/year and multiplying the product by 1 ton/2000 pounds to give 1.8 tons of OC/year (after rounding off.) Compliance with the annual emission limitation is assumed provided compliance is maintained with the hourly emission limitation.

3. Emission Limitation:
NOx emissions shall not exceed 15.0 lbs/hr.

Applicable Compliance Method:
The maximum allowable emission rate of 15.0 lbs of NOx/hr was derived by multiplying an emission factor of 0.32 lb of NOx/gallon of unleaded gasoline consumed (the maximum emission rate from emission tests on this emissions unit (P245)), by the maximum fuel consumption rate of 46 gallons/hour (for 3 cells), and rounding off the product to 15.0 lbs of NOx/hour.

The permittee shall demonstrate compliance with this emission limitation through emission testing. See Section A.V.6.

a. Emission Limitation:
NOx emissions shall not exceed 360 lbs/day.

Applicable Compliance Method:
This emission limitation was established by multiplying the hourly NOx emission limitation by 24 hours/day to give an emission rate of 360.0 lbs of NOx/day. Compliance with the daily emission limitation is assumed provided compliance is maintained with the hourly emission limitation. An explanation of the hourly emission limitation can be found in Section A.V.3.

b. Emission Limitation:
NOx emissions shall not exceed 30.7 tons per rolling, 12-month period.

Applicable Compliance Method:
This emission limitation was established by multiplying the test-derived emission factor of 0.32 lb of NOx/gallon of unleaded gasoline consumed, by the self-restricted unleaded gasoline consumption rate of 192,000 gallons/year, and multiplying the product by 1 ton/2000 pounds to give an emission rate of 30.7 tons of NOx/year. Compliance with the annual emission limitation is assumed provided compliance is maintained with the rolling, 12-month unleaded gasoline usage limitation.

4. Emission Limitation:
CO emissions shall not exceed 8.1 lbs/hr.

Applicable Compliance Method:
The hourly CO emission limitation was developed using worst case discharge uncontrolled emission test data obtained from testing three prototype engines at 7000 revolutions per minute that established an emission rate of 162 lbs of uncontrolled CO/hr. Applying an afterburner control efficiency of 95% gave an emission rate of 8.1 lbs of CO/hr.

The permittee shall demonstrate compliance with this emission limitation through emission testing. See Section A.V.6.

a. Emission Limitation:
CO emissions shall not exceed 194.4 lbs/day.

Applicable Compliance Method:
This emission limitation was established by multiplying the hourly CO emission limitation by 24 hours/day to give an emission rate of 194.4 lbs of CO/day. Compliance with the daily emission limitation is assumed provided compliance is maintained with the hourly emission limitation. An explanation of the hourly emission limitation can be found in Section A.V.4.

b. Emission Limitation:

CO emissions shall not exceed 35.5 tons/year.

Applicable Compliance Method:
This emission limitation was established by multiplying the hourly CO emission limitation by 8760 hours/year and multiplying the product by 1 ton/2000 pounds to give an emission rate of 35.5 tons of CO/year. Compliance with the annual emission limitation is assumed provided compliance is maintained with the hourly emission limitation.

5. Emission Limitation:
Minimum 95% control (destruction) efficiency of the OC and CO emissions in the afterburner.

Applicable Compliance Method:
The permittee shall demonstrate compliance with the control (destruction) efficiency requirement in accordance with the methods and procedures outlined in Section A.V.6 of this permit.

6. The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:

a. The emission testing shall be conducted within 6 months after issuance of this permit and within 6 months prior to permit expiration.

The emission testing shall be conducted to demonstrate compliance with the hourly allowable mass emission limitations for NOx, OC, and CO and to demonstrate compliance with the required afterburner control (destruction) efficiencies for OC and CO. The emission testing shall also be used to validate or reestablish the NOx emission factor.

The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Cleveland DAQ.

The following test methods shall be employed to demonstrate compliance with the allowable mass emission rates and control (destruction) efficiencies:

NOx: Methods 1 through 4 and 7, of 40 CFR Part 60, Appendix A;
CO: Methods 1 through 4 and 10, of 40 CFR Part 60, Appendix A;
OC: Methods 1 through 4 and 18, 25, or 25A, as appropriate, of 40 CFR Part 60, Appendix A.

The afterburner OC control (destruction) efficiency shall be determined in accordance with the test methods and procedures specified in OAC rule 3745-21-10(C) and shall measure the percent reduction in mass emissions of organic compounds or organic materials between the inlet and outlet of the afterburner.

The OC test method selected shall be based on a consideration of the diversity of organic species present and their total concentrations, and on a consideration of the potential presence of interfering gases.

The afterburner CO control (destruction) efficiency shall be determined in accordance with Methods 1 through 4 and 10, of 40 CFR Part 60, Appendix A and shall measure the percent reduction in mass emissions of CO between the inlet and outlet of the afterburner.

Alternative U.S. EPA-approved test methods may be used with prior approval from the Ohio EPA.

b. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Cleveland DAQ. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Cleveland DAQ's refusal to accept the results of the emission test(s).

Personnel from the Cleveland DAQ shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emission test(s) shall be signed by the person or persons responsible for the tests and submitted to the Cleveland DAQ within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Cleveland DAQ.

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VI. **Miscellaneous Requirements**

1. None

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Facility ID: 1318120179 Emissions Unit ID: P245 Issuance type: Title V Preliminary Proposed Permit

B. State Enforceable Section

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

1. None.

I. **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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures

2. **Additional Terms and Conditions**

1. None

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II. **Operational Restrictions**

1. None

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

1. None

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IV. **Reporting Requirements**

1. None

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V. **Testing Requirements**

1. None

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VI. **Miscellaneous Requirements**

1. None

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Facility ID: 1318120179 Emissions Unit ID: P264 Issuance type: Title V Preliminary Proposed Permit

A. State and Federally Enforceable Section

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

1. None.

I. **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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
P264: CEP 2 internal combustion engine hot test carousel with 34 stations, enclosed flare, pilot flame presence sensor and interlock	OAC rule 3745-31-05(A)(3) (PTI #13-03198)	Organic compound (OC) emissions shall not exceed 5.5 lbs/hr and 24.1 tons/year. Carbon monoxide (CO) emissions shall not exceed 5.6 lbs/hr and 24.5 tons/year. Nitrogen oxides (NOx) emissions shall not exceed 0.4 lb/hr and 1.7 tons/year. Visible particulate emissions from this emissions unit shall not exceed 0% opacity as a 6-minute average. See Sections A.I.2.b, A.II.1, and A.II.2 below.
	OAC rule 3745-17-11(B)(1)	None, see Section A.I.2.a below.
	OAC rule 3745-17-07(A)	None, see Section A.I.2.c below.
	OAC rule 3745-21-08(B)	None, see Section A.I.2.d below.
	OAC rule 3745-23-06(B)	None, see Section A.I.2.e below.
	OAC rule 3745-18-06	None, exempt pursuant to OAC rule 3745-18-06(B).

2. **Additional Terms and Conditions**

a. The uncontrolled mass rate of particulate emissions from this emissions unit is less than 10 pounds per hour. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(a)(ii), Figure II of OAC rule 3745-17-11 does not apply. In addition, Table I of OAC rule 3745-17-11 does not apply because the process weight, as defined in OAC rule 3745-17-01(B)(14), is equal to zero*.

(a)

* The only material introduced into the process is unleaded gasoline fuel which is solely used as fuel for the purpose of combustion.

b. OC emissions from the fuel rail blowdown of this emissions unit shall be incinerated using a natural gas-fired enclosed flare that achieves a minimum control (destruction) efficiency of 95%, by weight. For purposes of federal enforceability, all OCs are considered to be VOCs.

c. This emissions unit is exempt from the visible particulate emissions limitations 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.

d. The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(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 13-03198.

On November 5, 2002, OAC rule 3745-21-08 was revised to delete paragraph (B); therefore, paragraph (B) is no longer part of the State regulations. However, that rule revision has not yet been submitted to the U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the U.S. EPA approves the revisions to OAC rule 3745-21-08, the requirement to satisfy the "best available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio.

e. 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 13-03198.

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II. **Operational Restrictions**

1. A pilot flame shall be maintained at all times in the flare's pilot light burner while this emissions unit is in operation.

2. The permittee shall operate an interlocking/monitoring device that automatically prevents the initiation of a new hot test cycle at any station associated with this emissions unit, in the event a pilot flame is not detected. Engine test cycles in progress may run to completion.

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

1. The permittee shall properly operate and maintain a device to continuously monitor the flare's pilot flame when

the emissions unit is in operation. The monitoring device and any recorder shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals.

2. The permittee shall maintain a log of the activation of the pilot flame sensor's interlock. This log shall include the date, time and duration of each such period.

3. The permittee shall inspect all fittings (valves, flanges, etc.) associated with the fuel delivery system on a monthly basis and shall maintain records of the results of the inspections. Any component found to be leaking or in need of repair shall be repaired as soon as practicable, but no later than 15 calendar days after the leak is detected. For the purposes of this monitoring program, a leak is detected by visual, audible or olfactory methods.

4. The permittee shall maintain records of all repairs made to process equipment components.

5. The permittee shall perform weekly checks, when the weather conditions allow, for any visible particulate emissions from the flare stack serving this emissions unit while it is in operation. At a minimum, the visible particulate emissions from the flare stack shall be checked on a quarterly basis unless this emissions unit does not operate during the calendar quarter. The permittee shall maintain records showing the operation time(s) of this emissions unit during each calendar quarter. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:

   a. the color of the emissions;
   b. the total duration of any visible emission incident; and
   c. any corrective actions taken to eliminate the visible emissions.

   The visible emissions check is not required to be performed by individuals certified to conduct U.S. EPA Reference Method 9 observations.

   No earlier than 6 months after issuance of this permit, the permittee may, upon receipt of written approval from the Cleveland Division of Air Quality (Cleveland DAQ), modify the frequencies of the visible particulate emissions checks if operating experience indicates that less frequent checks would be sufficient to ensure compliance with the above-mentioned applicable requirements.

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IV. **Reporting Requirements**

1. The permittee shall submit quarterly deviation (excursion) reports that identify all periods during which the pilot flame was not functioning properly while the emissions unit was in operation. The reports shall include the date, time and duration of each such period.

2. The permittee shall submit quarterly deviation (excursion) reports that identify all instances when the flare's pilot flame interlocking/monitoring device allowed the initiation of a new hot test cycle when the enclosed flare's pilot flame was not functioning properly.

3. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the flare stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Cleveland DAQ by January 31 and July 31 of each year and shall cover the previous 6-month period.

4. The permittee shall submit the quarterly deviation (excursion) reports in accordance with Section A.1.c.ii of the General Terms and Conditions.

5. The permittee shall submit annual reports that specify the total emissions of OC, CO and NOx from this emissions unit for the previous calendar year. The reports shall be submitted by January 31 of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual Fee Emission Report.

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V. **Testing Requirements**

1. Compliance with the emission limitations in Section A.I.1 of these terms and conditions shall be determined in accordance with the following methods:

2. Emission Limitation:
   Visible particulate emissions from this emissions unit shall not exceed 0% opacity as a 6-minute average.

   Applicable Compliance Method:
   If required, compliance shall be determined through visible emission observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9.

3. Emission Limitation:
   OC emissions shall not exceed 5.5 lbs/hr.

   Applicable Compliance Method:
   The permittee shall demonstrate compliance with this emission limitation through emission testing conducted simultaneously at both the engine combustion exhaust stack and the fuel rail blowdown stack. See Section A.V.7.

   The hourly OC emission limitation was developed using an emission rate of 4.6 lbs of OC/hr provided by the permittee based on testing similar equipment with an enclosed flare on the fuel rail blowdown. The emission

limitation of 5.5 lbs of OC/hr was determined by applying a 20% adjustment factor to the emission rate of 4.6 lbs of OC/hr.

a. Emission Limitation:
OC emissions shall not exceed 24.1 tons/year.

Applicable Compliance Method:
This emission limitation was established by multiplying the hourly OC emission limitation by 8760 hours/year and multiplying the product by 1 ton/2000 pounds to give an emission rate of 24.1 tons of OC/year after rounding off. Compliance with the annual emission limitation is assumed provided compliance is maintained with the hourly emission limitation.

4. Emission Limitation:
CO emissions shall not exceed 5.6 lbs/hr.

Applicable Compliance Method:
The permittee shall demonstrate compliance with this emission limitation through emission testing conducted simultaneously at both the engine combustion exhaust stack and the fuel rail blowdown stack. See Section A.V.7.

The hourly CO emission limitation was developed using an emission rate of 5.0 lbs of CO/hr provided by the permittee based on testing similar equipment with an enclosed flare on the fuel rail blowdown.The emission limitation of 5.6 lbs of CO/hr was determined by applying a 12% adjustment factor to the emission rate of 5.0 lbs of CO/hr.

a. Emission Limitation:
CO emissions shall not exceed 24.5 tons/year.

Applicable Compliance Method:
This emission limitation was established by multiplying the hourly CO emission limitation by 8760 hours/year and multiplying the product by 1 ton/2000 pounds to give an emission rate of 24.5 tons of CO/year. Compliance with the annual emission limitation is assumed provided compliance is maintained with the hourly emission limitation.

5. Emission Limitation:
NOx emissions shall not exceed 0.4 lb/hr.

Applicable Compliance Method:
The permittee shall demonstrate compliance with this emission limitation through emission testing conducted simultaneously at both the engine combustion exhaust stack and the fuel rail blowdown stack. See Section A.V.7.

The hourly NOx emission limitation was developed using an emission rate of 0.3 lb of NOx/hr provided by the permittee based on testing similar equipment with an enclosed flare on the fuel rail blowdown. The emission limitation of 0.4 lb of NOx was determined by applying a 20% adjustment factor to the emission rate of 0.3 lb of NOx/hr and rounding off.

a. Emission Limitation:
NOx emissions shall not exceed 1.7 tons/year.

Applicable Compliance Method:
This emission limitation was established by multiplying the hourly NOx emission limitation by 8760 hours/year and multiplying the product by 1 ton/2000 pounds to give an emission rate of 1.7 tons of NOx/year. Compliance with the annual emission limitation is assumed provided compliance is maintained with the hourly emission limitation.

6. Emission Limitation:
Minimum 95% control (destruction) efficiency of the OC emissions from the fuel rail blowdown in the enclosed flare.

Applicable Compliance Method:
The permittee shall demonstrate compliance with the control (destruction) efficiency requirement in accordance with the methods and procedures outlined in Section A.V.7 of this permit.

7. The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:
The emission testing shall be conducted within 6 months after issuance of this permit and within 6 months prior to permit expiration.
The emission testing shall be conducted to demonstrate compliance with the hourly allowable mass emission limitations for NOx, OC and CO. The emission testing shall also be conducted to demonstrate compliance with the required minimum enclosed flare OC control.

The emission testing shall be conducted simultaneously at both the engine combustion exhaust stack and the fuel rail blowdown stack. The tested NOx, OC and CO emission rates from the engine combustion exhaust stack and the fuel rail blowdown stack shall be summed and the results used to demonstrate compliance with the emission limitations for NOx, OC and CO.

The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Cleveland DAQ.

The following test methods shall be employed to demonstrate compliance with the allowable mass emission limitations and control (destruction) efficiency requirement:

NOx: Methods 1 through 4 and 7, of 40 CFR Part 60, Appendix A;
CO: Methods 1 through 4 and 10, of 40 CFR Part 60, Appendix A;

OC: Methods 1 through 4 and 18, 25 or 25A, as appropriate, of 40 CFR Part 60, Appendix A.

The enclosed flare control (destruction) efficiency shall be determined in accordance with the test methods and procedures specified in OAC rule 3745-21-10(C) and shall measure the percent reduction in mass emissions of organic compounds or organic materials between the inlet and outlet of the enclosed flare.

The OC test method selected shall be based on a consideration of the diversity of organic species present and their total concentrations, and on a consideration of the potential presence of interfering gases.

Alternative U.S. EPA-approved test methods may be used with prior approval from the Ohio EPA.

a. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Cleveland DAQ. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Cleveland DAQ's refusal to accept the results of the emission test(s).

   Personnel from the Cleveland DAQ shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

   A comprehensive written report on the results of the emission test(s) shall be signed by the person or persons responsible for the tests and submitted to the Cleveland DAQ within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Cleveland DAQ.

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VI. **Miscellaneous Requirements**

1. None

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Facility ID: 1318120179 Emissions Unit ID: P264 Issuance type: Title V Preliminary Proposed Permit

B. State Enforceable Section

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

1. None.

I. **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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures

2. **Additional Terms and Conditions**

1. None

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II. **Operational Restrictions**

1. None

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

1. None

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IV. **Reporting Requirements**

1. None

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V. **Testing Requirements**

1. None

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VI. **Miscellaneous Requirements**

1. None

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Facility ID: 1318120179 Emissions Unit ID: P281 Issuance type: Title V Preliminary Proposed Permit

A. State and Federally Enforceable Section

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

1. None.

I. **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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
P281: CEP 2's five (5) internal combustion engine hot test stands (4 test stands and 1 diagnostic stand) with enclosed flare, pilot flame presence sensor and interlock	OAC rule 3745-31-05(A)(3) (PTI #13-03185)	Organic compound (OC) emissions shall not exceed 1.1 lbs/hr, 26.4 lbs/day, and 4.8 tons/year. Carbon monoxide (CO) emissions shall not exceed 3.4 lbs/hr, 81.6 lbs/day, and 14.9 tons/year. Nitrogen oxides (NOx) emissions shall not exceed 0.9 lb/hr, 21.6 lbs/day, and 3.9 tons/year. Visible particulate emissions from this emissions unit shall not exceed 0% opacity as a 6-minute average. See Sections A.I.2.b, A.II.1, and A.II.2 below.
	OAC rule 3745-17-11(B)(1)	None, see Section A.I.2.a below.
	OAC rule 3745-17-07(A)	None, see Section A.I.2.c below.
	OAC rule 3745-21-08(B)	None, see Section A.I.2.d below.
	OAC rule 3745-23-06(B)	None, see Section A.I.2.e below.
	OAC rule 3745-18-06	None, exempt pursuant to OAC rule 3745-18-06(B).

2. **Additional Terms and Conditions**

a. The uncontrolled mass rate of particulate emissions from this emissions unit is less than 10 pounds per hour. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(a)(ii), Figure II of OAC rule 3745-17-11 does not apply. In addition, Table I of OAC rule 3745-17-11 does not apply because the process weight, as defined in OAC rule 3745-17-01(B)(14), is equal to zero*.

(a)

* The only material introduced into the process is unleaded gasoline fuel which is solely used as fuel for the purpose of combustion.

b. OC emissions from the fuel rail blowdown of this emissions unit shall be incinerated using a natural gas-fired enclosed flare that achieves a minimum control (destruction) efficiency of 95%, by weight. For purposes of federal enforceability, all OCs are considered to be VOCs.

c. This emissions unit is exempt from the visible particulate emissions limitations 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.

d. The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(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 13-03185.

On November 5, 2002, OAC rule 3745-21-08 was revised to delete paragraph (B); therefore, paragraph (B) is no longer part of the State regulations. However, that rule revision has not yet been submitted to the U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the U.S. EPA approves the revisions to OAC rule 3745-21-08, the requirement to satisfy the "best available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio.

e. 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 13-03185.

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II. **Operational Restrictions**

1. A pilot flame shall be maintained at all times in the flare's pilot light burner while this emissions unit is in operation.

2. The permittee shall operate an interlocking/monitoring device that automatically prevents the initiation of a new hot test cycle at any station associated with this emissions unit, in the event a pilot flame is not detected. Engine test cycles in progress may run to completion.

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

1. The permittee shall properly operate and maintain a device to continuously monitor the flare's pilot flame when the emissions unit is in operation. The monitoring device and any recorder shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals.

2. The permittee shall maintain a log of the activation of the pilot flame sensor's interlock. This log shall include the date, time and duration of each such period.

3. The permittee shall inspect all fittings (valves, flanges, etc.) associated with the fuel delivery system on a monthly basis and shall maintain records of the results of the inspections. Any component found to be leaking or in need of repair shall be repaired as soon as practicable, but no later than 15 calendar days after the leak is detected. For the purposes of this monitoring program, a leak is detected by visual, audible or olfactory methods.

4. The permittee shall maintain records of all repairs made to process equipment components.

5. The permittee shall perform weekly checks, when the weather conditions allow, for any visible particulate emissions from the flare stack serving this emissions unit while it is in operation. At a minimum, the visible particulate emissions from the flare stack shall be checked on a quarterly basis unless this emissions unit does not operate during the calendar quarter. The permittee shall maintain records showing the operation time(s) of this emissions unit during each calendar quarter. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:

a. the color of the emissions;
b. the total duration of any visible emission incident; and
c. any corrective actions taken to eliminate the visible emissions.

The visible emissions check is not required to be performed by individuals certified to conduct U.S. EPA Reference Method 9 observations.

No earlier than 6 months after issuance of this permit, the permittee may, upon receipt of written approval from the Cleveland Division of Air Quality (Cleveland DAQ), modify the frequencies of the visible particulate emissions checks if operating experience indicates that less frequent checks would be sufficient to ensure compliance with the above-mentioned applicable requirements.

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IV. **Reporting Requirements**

1. The permittee shall submit quarterly deviation (excursion) reports that identify all periods during which the pilot flame was not functioning properly while the emissions unit was in operation. The reports shall include the date, time and duration of each such period.

2. The permittee shall submit quarterly deviation (excursion) reports that identify all instances when the flare's pilot flame interlocking/monitoring device allowed the initiation of a new hot test cycle when the enclosed flare's pilot flame was not functioning properly.

3. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the flare stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Cleveland DAQ by January 31 and July 31 of each year and shall cover the previous 6-month period.

4. The permittee shall submit the quarterly deviation (excursion) reports in accordance with Section A.1.c.ii of the General Terms and Conditions.

5. The permittee shall submit annual reports that specify the total emissions of OC, CO and NOx from this emissions unit for the previous calendar year. The reports shall be submitted by January 31 of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual Fee Emission Report.

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V. **Testing Requirements**

1. Compliance with the emission limitations in Section A.I.1 of these terms and conditions shall be determined in accordance with the following methods:

2. Emission Limitation:
Visible particulate emissions from this emissions unit shall not exceed 0% opacity as a 6-minute average.

Applicable Compliance Method:
If required, compliance shall be determined through visible emission observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9.

3. Emission Limitation:
OC emissions shall not exceed 1.1 lbs/hr.

Applicable Compliance Method:
The permittee shall demonstrate compliance with this emission limitation through emission testing conducted simultaneously at both the engine combustion exhaust stack and the fuel rail blowdown stack. See Section A.V.7.

The hourly OC emission limitation was developed by multiplying an emission factor of 0.022 lb of OC/engine (provided by the permittee based on testing similar equipment with an enclosed flare on the fuel rail blowdown) by the maximum engine testing rate of 50 engines/hr to give an emission rate of 1.1 lbs/hr.

a. Emission Limitation:
OC emissions shall not exceed 26.4 lbs/day.

Applicable Compliance Method:
This emission limitation was established by multiplying the hourly OC emission limitation by 24 hours/day to give an emission rate of 26.4 lbs of OC/day. Compliance with the daily emission limitation is assumed provided compliance is maintained with the hourly emission limitation. An explanation of the hourly emission limitation can be found in Section A.V.3.

b. Emission Limitation:
OC emissions shall not exceed 4.8 tons/year.

Applicable Compliance Method:
This emission limitation was established by multiplying the hourly OC emission limitation by 8760 hours/year and multiplying the product by 1 ton/2000 pounds to give an emission rate of 4.8 tons OC/year. Compliance with the annual emission limitation is assumed provided compliance is maintained with the hourly emission limitation.

4. Emission Limitation:
CO emissions shall not exceed 3.4 lbs/hr.

Applicable Compliance Method:
The permittee shall demonstrate compliance with this emission limitation through emission testing conducted simultaneously at both the engine combustion exhaust stack and the fuel rail blowdown stack. See Section A.V.7.

The hourly CO emission limitation was developed by multiplying an emission factor of 0.068 lb of CO/engine-hr (provided by the permittee based on testing similar equipment with an enclosed flare on the fuel rail blowdown) by the maximum engine testing rate of 50 engines/hr to give an emission rate of 3.4 lbs/hr.

a. Emission Limitation:
CO emissions shall not exceed 81.6 lbs/day.

Applicable Compliance Method:
This emission limitation was established by multiplying the hourly CO emission limitation by 24 hours/day

to give an emission rate of 81.6 lbs of CO/day. Compliance with the daily emission limitation is assumed provided compliance is maintained with the hourly emission limitation. An explanation of the hourly emission limitation can be found in Section A.V.4.

b. Emission Limitation:
CO emissions shall not exceed 14.9 tons/year.

Applicable Compliance Method:
This emission limitation was established by multiplying the hourly CO emission limitation by 8760 hours/year and multiplying the product by 1 ton/2000 pounds to give an emission rate of 14.9 tons of CO/year. Compliance with the annual emission limitation is assumed provided compliance is maintained with the hourly emission limitation.

5. Emission Limitation:
NOx emissions shall not exceed 0.9 lb/hr.

Applicable Compliance Method:
The permittee shall demonstrate compliance with this emission limitation through emission testing conducted simultaneously at both the engine combustion exhaust stack and the fuel rail blowdown stack. See Section A.V.7.

The hourly NOx emission limitation was developed by multiplying an emission factor of 0.018 lb of NOx/engine-hr (provided by the permittee based on testing similar equipment with an enclosed flare on the fuel rail blowdown) by the maximum engine testing rate of 50 engines/hr to give an emission rate of 0.9 lb/hr.

a. Emission Limitation:
NOx emissions shall not exceed 21.6 lbs/day.

Applicable Compliance Method:
This emission limitation was established by multiplying the hourly NOx emission limitation by 24 hours/day to give an emission rate of 21.6 lbs of NOx/day. Compliance with the daily emission limitation is assumed provided compliance is maintained with the hourly emission limitation. An explanation of the hourly emission limitation can be found in Section A.V.5.

b. Emission Limitation:
NOx emissions shall not exceed 3.9 tons/year.

Applicable Compliance Method:
This emission limitation was established by multiplying the hourly NOx emission limitation by 8760 hours/year and multiplying the product by 1 ton/2000 pounds to give an emission rate of 3.9 tons of NOx/year. Compliance with the annual emission limitation is assumed provided compliance is maintained with the hourly emission limitation.

6. Emission Limitation:
Minimum 95% control (destruction) efficiency of the OC emissions from the fuel rail blowdown in the enclosed flare.

Applicable Compliance Method:
The permittee shall demonstrate compliance with the control (destruction) efficiency requirement in accordance with the methods and procedures outlined in Section A.V.7 of this permit.

7. The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:
The emission testing shall be conducted within 6 months after issuance of this permit and within 6 months prior to permit expiration.
The emission testing shall be conducted to demonstrate compliance with the hourly allowable mass emission limitations for NOx, OC and CO. The emission testing shall also be conducted to demonstrate compliance with the required minimum enclosed flare OC control.

The emission testing shall be conducted simultaneously at both the engine combustion exhaust stack and the fuel rail blowdown stack. The tested NOx, OC and CO emission rates from the engine combustion exhaust stack and the fuel rail blowdown stack shall be summed and the results used to demonstrate compliance with the emission limitations for NOx, OC and CO.

The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Cleveland DAQ.

The following test methods shall be employed to demonstrate compliance with the allowable mass emission limitations and control (destruction) efficiency requirement:

NOx: Methods 1 through 4 and 7, of 40 CFR Part 60, Appendix A;
CO: Methods 1 through 4 and 10, of 40 CFR Part 60, Appendix A;
OC: Methods 1 through 4 and 18, 25 or 25A, as appropriate, of 40 CFR Part 60, Appendix A.

The enclosed flare control (destruction) efficiency shall be determined in accordance with the test methods and procedures specified in OAC rule 3745-21-10(C) and shall measure the percent reduction in mass emissions of organic compounds or organic materials between the inlet and outlet of the enclosed flare.

The OC test method selected shall be based on a consideration of the diversity of organic species present and their total concentrations, and on a consideration of the potential presence of interfering gases.

Alternative U.S. EPA-approved test methods may be used with prior approval from the Ohio EPA.

a. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Cleveland DAQ. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Cleveland DAQ's refusal to accept the results of the emission test(s).

Personnel from the Cleveland DAQ shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emission test(s) shall be signed by the person or persons responsible for the tests and submitted to the Cleveland DAQ within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Cleveland DAQ.

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VI. **Miscellaneous Requirements**

1. None

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B. State Enforceable Section

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

1. None.

I. **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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures

2. **Additional Terms and Conditions**

1. None

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II. **Operational Restrictions**

1. None

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

1. None

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IV. **Reporting Requirements**

1. None

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V. **Testing Requirements**

1. None

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VI. **Miscellaneous Requirements**

1. None