



State of Ohio Environmental Protection Agency

Street Address:

Lazarus Gov. Center  
122 S. Front Street  
Columbus, OH 43215

TELE: (614) 644-3020 FAX: (614) 644-2329

Mailing Address:

Lazarus Gov. Center  
P.O. Box 1049  
Columbus, OH 43216-1049

05/30/03

**CERTIFIED MAIL**

**RE: Final Title V Chapter 3745-77 permit**

03-02-02-0143

Ford Motor Co.-Lima  
Kevin P. Bruin Mr.  
1155 Bible Road  
Lima, OH 45801

Dear Kevin P. Bruin:

Enclosed is the Title V permit that allows you to operate the facility in the manner indicated in the permit. Because this permit may contain several conditions and restrictions, we urge you to read it carefully.

The Ohio EPA is encouraging companies to investigate pollution prevention and energy conservation. Not only will this reduce pollution and energy consumption, but it can also save you money. If you would like to learn ways you can save money while protecting the environment, please contact our Office of Pollution Prevention at (614) 644-3469.

You are hereby notified that this action of the Director is final and may be appealed to the Environmental Review Appeals Commission pursuant to Section 3745.04 of the Ohio Revised Code. The appeal must be in writing and set forth the action complained of and the grounds upon which the appeal is based. It must be filed with the Environmental Review Appeals Commission within thirty (30) days after notice of the Director's action. A copy of the appeal must be served on the Director of the Ohio Environmental Protection Agency within three (3) days of filing with the Commission. It is also requested by the Director that a copy of the appeal be served upon the Environmental Enforcement Section of the Office of the Attorney General. An appeal may be filed with the Environmental Review Appeals Commission at the following address:

Environmental Review Appeals Commission  
236 East Town Street  
Room 300  
Columbus, Ohio 43215

If you have any questions, please contact Northwest District Office.

Very truly yours,

Michael W. Ahern, Supervisor  
Field Operations and Permit Section  
Division of Air Pollution Control

cc: Northwest District Office  
File, DAPC PMU



State of Ohio Environmental Protection Agency

FINAL TITLE V PERMIT

Issue Date: 05/30/03

Effective Date: 06/30/03

Expiration Date: 06/30/08

This document constitutes issuance of a Title V permit for Facility ID: 03-02-02-0143 to:

Ford Motor Co.-Lima

1155 Bible Road

Lima, OH 45801

Emissions Unit ID (Company ID)/Emissions Unit Activity Description

P026 (V6 Engine Hot Test Stands) V6 Engine Hot Test Stands, with Thermal Oxidizer"	Operations	P099 (MC31) Mist Collector 31 (MC31) for Engine Machining Operations
P042 (3.9L V-8 Engine Hot Test (DEW) ) 3.9L V-8 Engine Hot Test.	P076 (MC4) Mist Collector 4 (MC4) for Engine Machining Operations	P100 (MC32) Mist Collector 32 (MC32) for Engine Machining Operations
P050 (Dynamometer Test Cells (WEST SIDE)) 3 Cells, Engine Testing Dynamometer Facility - West Block	P082 (MC10) Mist Collector 10 (MC10) for Engine Machining Operations	R004 (Garage Paint Booth ) Industrial Garage Paint/Steam Booth.
P051 (Dynamometer Test Cell (EAST SIDE)) 4 Cells, Engine Testing Dynamometer Facility - East Block	P086 (MC15) Mist Collector 15 (MC15) for Engine Machining Operations	R005 (Maintenance Paint Booth) Maintenance Paint Spray Booth.
P074 (MC2) Mist Collector 2 (MC2) for Engine Machining	P091 (MC21) Mist Collector 21 (MC21) for Engine Machining Operations	

You will be contacted approximately eighteen (18) months prior to the expiration date regarding the renewal of this permit. If you are not contacted, please contact the appropriate Ohio EPA District Office or local air agency listed below. This permit and the authorization to operate the air contaminant sources (emissions units) at this facility shall expire at midnight on the expiration date shown above. If a renewal permit is not issued prior to the expiration date, the permittee may continue to operate pursuant to OAC rule 3745-77-08(E) and in accordance with the terms of this permit beyond the expiration date, provided that a complete renewal application is submitted no earlier than eighteen (18) months and no later than one-hundred eighty (180) days prior to the expiration date.

Described below is the current Ohio EPA District Office or local air agency that is responsible for processing and administering your Title V permit:

Northwest District Office  
347 North Dunbridge Road  
Bowling Green, OH 43402  
(419) 352-8461

OHIO ENVIRONMENTAL PROTECTION AGENCY

Christopher Jones  
Director

## PART I - GENERAL TERMS AND CONDITIONS

### A. *State and Federally Enforceable Section*

#### 1. **Monitoring and Related Record Keeping and Reporting Requirements**

- a. Except as may otherwise be provided in the terms and conditions for a specific emissions unit, the permittee shall maintain records that include the following, where applicable, for any required monitoring under this permit:
  - i. The date, place (as defined in the permit), and time of sampling or measurements.
  - ii. The date(s) analyses were performed.
  - iii. The company or entity that performed the analyses.
  - iv. The analytical techniques or methods used.
  - v. The results of such analyses.
  - vi. The operating conditions existing at the time of sampling or measurement.  
*(Authority for term: OAC rule 3745-77-07(A)(3)(b)(i))*
- b. Each record of any monitoring data, testing data, and support information required pursuant to this permit shall be retained for a period of five years from the date the record was created. Support information shall include all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. Such records may be maintained in computerized form.  
*(Authority for term: OAC rule 3745-77-07(A)(3)(b)(ii))*
- c. The permittee shall submit required reports in the following manner:
  - i. Reports of any required monitoring and/or record keeping information shall be submitted to the appropriate Ohio EPA District Office or local air agency.  
*(Authority for term: OAC rule 3745-77-07(A)(3)(c))*
  - ii. **All reporting required in accordance with the OAC rule 3745-77-07(A)(3)(c) with respect to emission limitations, operational restrictions, and control device operating parameter limitations shall be submitted in the following manner:**
    - (a) Written reports of (i) any deviations from federally enforceable emission limitations, operational restrictions, and control device operating parameter limitations ; (ii) the probable cause of such deviations; and (iii) any corrective actions or preventive measures taken, shall be promptly made to the appropriate Ohio EPA District Office or local air agency. Except as may otherwise be provided in the terms and conditions for a specific emissions unit, i.e., in Part III of this Title V permit, the written reports shall be submitted quarterly, i.e., by January 31, April 30, July 31, and October 31 of each year, and shall cover the previous calendar quarters. In identifying each deviation, the permittee shall specify the applicable requirement for which the deviation occurred, describe each deviation, and provide the magnitude and duration of each deviation. These written reports shall satisfy the requirements (in part) of OAC rule 3745-77-07(A)(3)(c)(i) and (ii) pertaining to the submission of monitoring reports every six

months and the requirements (in part) of OAC rule 3745-77-07(A)(3)(c)(iii) pertaining to the prompt reporting of all deviations. See B.6 below if no deviations occurred during the quarter.

*(Authority for term: OAC rules 3745-77-07(A)(3)(c)(i), (ii) and (iii))*

- (b) Any malfunction, as defined in OAC rule 3745-15-06(B)(1), shall be promptly reported to the Ohio EPA in accordance with OAC rule 3745-15-06. In addition, to fulfill the deviation reporting requirements for this Title V permit, written reports that identify each malfunction that occurred during each calendar quarter shall be submitted, at a minimum, quarterly, i.e., by January 31, April 30, July 31, and October 31 of each year, and shall cover the previous calendar quarters.

In identifying each deviation caused by a malfunction, the permittee shall specify the applicable requirement for which the deviation occurred, describe each deviation, and provide the magnitude and duration of each deviation. For a specific malfunction, if this information has been provided in a written report that was submitted in accordance with OAC rule 3745-15-06, the permittee may simply reference that written report to identify the deviation. Also, if a deviation caused by a malfunction is identified in a written report submitted pursuant to paragraph (a) above, a separate report is not required for that malfunction pursuant to this paragraph. Nevertheless, all malfunctions, including those reported only verbally in accordance with OAC rule 3745-15-06, must be reported in writing, at a minimum, on a quarterly basis.

Any scheduled maintenance, as defined in OAC rule 3745-15-06(A)(1), that results in a deviation from a federally enforceable emission limitation, operational restriction, and control device operating parameter limitation shall be reported in the same manner as described above for malfunctions. These written reports for malfunctions (and scheduled maintenance projects, if appropriate) shall satisfy the requirements (in part) of OAC rule 3745-77-07(A)(3)(c)(iii) pertaining to the prompt reporting of all deviations.

*(Authority for term: OAC rules 3745-77-07(A)(3)(c)(iii))*

iii. **For monitoring, record keeping, and reporting requirements:**

Written reports that identify any deviations from the federally enforceable monitoring, record keeping, and reporting requirements contained in this permit shall be submitted to the appropriate Ohio EPA District Office or local air agency every six months, i.e., by January 31 and July 31 of each year, for the previous six calendar months. In identifying each deviation, the permittee shall specify the applicable requirement for which the deviation occurred, describe each deviation, and provide the magnitude and duration of each deviation. These semi-annual written reports shall satisfy the requirements of OAC rule 3745-77-07(A)(3)(c)(i) and (ii) pertaining to the reporting of any deviations related to the monitoring, record keeping, and reporting requirements. If no deviations occurred during a six-month period, the permittee shall submit a semi-annual report which states that no deviations occurred during that period.

*(Authority for term: OAC rules 3745-77-07(A)(3)(c)(i) and (ii))*

- iv. Each written report shall be signed by a responsible official certifying that, "based on information and belief formed after reasonable inquiry, the statements and information in the

report (including any written malfunction reports required by OAC rule 3745-15-06 that are referenced in the deviation reports) are true, accurate, and complete."  
(Authority for term: OAC rule 3745-77-07(A)(3)(c)(iv))

**2. Scheduled Maintenance/Malfunction Reporting**

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. The malfunction of any emissions unit(s) or any associated air pollution control system(s) shall be reported to the appropriate Ohio EPA District Office or local air agency in accordance with paragraph (B) of OAC rule 3745-15-06. Except as provided in OAC rule 3745-15-06, any scheduled maintenance or malfunction necessitating the shutdown or bypassing of any air pollution control system(s) shall be accompanied by the shutdown of the emissions unit(s) that is (are) served by such control system(s).  
(Authority for term: OAC rule 3745-77-07(A)(3)(c)(iii))

**3. Risk Management Plans**

If applicable, the permittee shall develop and register a risk management plan pursuant to section 112(r) of the Clean Air Act, as amended, 42 U.S.C. § 7401 et seq. (“Act”); and, pursuant to 40 C.F.R. 68.215(a), the permittee shall submit either of the following:

- a. a compliance plan for meeting the requirements of 40 C.F.R. Part 68 by the date specified in 40 C.F.R. 68.10(a) and OAC 3745-104-05(A); or
- b. as part of the compliance certification submitted under 40 C.F.R. 70.6(c)(5), a certification statement that the source is in compliance with all requirements of 40 C.F.R. Part 68 and OAC Chapter 3745-104, including the registration and submission of the risk management plan.

(Authority for term: OAC rule 3745-77-07(A)(4))

**4. Title IV Provisions**

If the permittee is subject to the requirements of 40 CFR Part 72 concerning acid rain, the permittee shall ensure that any affected emissions unit complies with those requirements. Emissions exceeding any allowances that are lawfully held under Title IV of the Act, or any regulations adopted thereunder, are prohibited.  
(Authority for term: OAC rule 3745-77-07(A)(5))

**5. Severability Clause**

A determination that any term or condition of this permit is invalid shall not invalidate the force or effect of any other term or condition thereof, except to the extent that any other term or condition depends in whole or in part for its operation or implementation upon the term or condition declared invalid.  
(Authority for term: OAC rule 3745-77-07(A)(6))

**6. General Requirements**

- a. The permittee must comply with all terms and conditions of this permit. Any noncompliance with the federally enforceable terms and conditions of this permit constitutes a violation of the Act, and is grounds for enforcement action or for permit revocation, revocation and reissuance, or modification, or for denial of a permit renewal application.

- b. It shall not be a defense for the permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the federally enforceable terms and conditions of this permit.
- c. This permit may be modified, reopened, revoked, or revoked and reissued, for cause, in accordance with A.10 below. The filing of a request by the permittee for a permit modification, revocation and reissuance, or revocation, or of a notification of planned changes or anticipated noncompliance does not stay any term and condition of this permit.
- d. This permit does not convey any property rights of any sort, or any exclusive privilege.
- e. The permittee shall furnish to the Director of the Ohio EPA, or an authorized representative of the Director, upon receipt of a written request and within a reasonable time, any information that may be requested to determine whether cause exists for modifying, reopening or revoking this permit or to determine compliance with this permit. Upon request, the permittee shall also furnish to the Director or an authorized representative of the Director, copies of records required to be kept by this permit. For information claimed to be confidential in the submittal to the Director, if the Administrator of the U.S. EPA requests such information, the permittee may furnish such records directly to the Administrator along with a claim of confidentiality.

*(Authority for term: OAC rule 3745-77-07(A)(7))*

**7. Fees**

The permittee shall pay fees to the Director of the Ohio EPA in accordance with ORC section 3745.11 and OAC Chapter 3745-78.

*(Authority for term: OAC rule 3745-77-07(A)(8))*

**8. Marketable Permit Programs**

No revision of this permit is required under any approved economic incentive, marketable permits, emissions trading, and other similar programs or processes for changes that are provided for in this permit.

*(Authority for term: OAC rule 3745-77-07(A)(9))*

**9. Reasonably Anticipated Operating Scenarios**

The permittee is hereby authorized to make changes among operating scenarios authorized in this permit without notice to the Ohio EPA, but, contemporaneous with making a change from one operating scenario to another, the permittee must record in a log at the permitted facility the scenario under which the permittee is operating. The permit shield provided in these general terms and conditions shall apply to all operating scenarios authorized in this permit.

*(Authority for term: OAC rule 3745-77-07(A)(10))*

**10. Reopening for Cause**

This Title V permit will be reopened prior to its expiration date under the following conditions:

- a. Additional applicable requirements under the Act become applicable to one or more emissions units covered by this permit, and this permit has a remaining term of three or more years. Such a reopening shall be completed not later than eighteen (18) months after promulgation of the applicable requirement.

No such reopening is required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions has been extended pursuant to paragraph (E)(1) of OAC rule 3745-77-08.

- b. This permit is issued to an affected source under the acid rain program and additional requirements (including excess emissions requirements) become applicable. Upon approval by the Administrator, excess emissions offset plans shall be deemed to be incorporated into the permit, and shall not require a reopening of this permit.
- c. The Director of the Ohio EPA or the Administrator of the U.S. EPA determines that the federally applicable requirements in this permit are based on a material mistake, or that inaccurate statements were made in establishing the emissions standards or other terms and conditions of this permit related to such federally applicable requirements.
- d. The Administrator of the U.S. EPA or the Director of the Ohio EPA determines that this permit must be revised or revoked to assure compliance with the applicable requirements.

*(Authority for term: OAC rules 3745-77-07(A)(12) and 3745-77-08(D))*

#### **11. Federal and State Enforceability**

Only those terms and conditions designated in this permit as federally enforceable, that are required under the Act, or any of its applicable requirements, including relevant provisions designed to limit the potential to emit of a source, are enforceable by the Administrator of the U.S. EPA, the State, and citizens under the Act. All other terms and conditions of this permit shall not be federally enforceable and shall be enforceable under State law only.

*(Authority for term: OAC rule 3745-77-07(B))*

#### **12. Compliance Requirements**

- a. Any document (including reports) required to be submitted and required by a federally applicable requirement in this Title V permit shall include a certification by a responsible official that, based on information and belief formed after reasonable inquiry, the statements in the document are true, accurate, and complete.
- b. Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the Director of the Ohio EPA or an authorized representative of the Director to:
  - i. At reasonable times, enter upon the permittee's premises where a source is located or the emissions-related activity is conducted, or where records must be kept under the conditions of this permit.
  - ii. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit, subject to the protection from disclosure to the public of confidential information consistent with paragraph (E) of OAC rule 3745-77-03.
  - iii. Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit.
  - iv. As authorized by the Act, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit and applicable requirements.

- c. The permittee shall submit progress reports to the appropriate Ohio EPA District Office or local air agency concerning any schedule of compliance for meeting an applicable requirement. Progress reports shall be submitted semiannually, or more frequently if specified in the applicable requirement or by the Director of the Ohio EPA. Progress reports shall contain the following:
  - i. Dates for achieving the activities, milestones, or compliance required in any schedule of compliance, and dates when such activities, milestones, or compliance were achieved.
  - ii. An explanation of why any dates in any schedule of compliance were not or will not be met, and any preventive or corrective measures adopted.
- d. Compliance certifications concerning the terms and conditions contained in this permit that are federally enforceable emission limitations, standards, or work practices, shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) and the Administrator of the U.S. EPA in the following manner and with the following content:
  - i. Compliance certifications shall be submitted annually on a calendar year basis. The annual certification shall be submitted on or before April 30th of each year during the permit term.
  - ii. Compliance certifications shall include the following:
    - (a) An identification of each term or condition of this permit that is the basis of the certification.
    - (b) The permittee's current compliance status.
    - (c) Whether compliance was continuous or intermittent.
    - (d) The method(s) used for determining the compliance status of the source currently and over the required reporting period.
    - (e) Such other facts as the Director of the Ohio EPA may require in the permit to determine the compliance status of the source.
  - iii. Compliance certifications shall contain such additional requirements as may be specified pursuant to sections 114(a)(3) and 504(b) of the Act.

*(Authority for term: OAC rules 3745-77-07(C)(1),(2),(4) and (5) and ORC section 3704.03(L))*

### **13. Permit Shield**

- a. Compliance with the terms and conditions of this permit (including terms and conditions established for alternate operating scenarios, emissions trading, and emissions averaging, but excluding terms and conditions for which the permit shield is expressly prohibited under OAC rule 3745-77-07) shall be deemed compliance with the applicable requirements identified and addressed in this permit as of the date of permit issuance.
- b. This permit shield provision shall apply to any requirement identified in this permit pursuant to OAC rule 3745-77-07(F)(2), as a requirement that does not apply to the source or to one or more emissions units within the source.

*(Authority for term: OAC rule 3745-77-07(F))*

### **14. Operational Flexibility**

The permittee is authorized to make the changes identified in OAC rule 3745-77-07(H)(1)(a) to (H)(1)(c) within the permitted stationary source without obtaining a permit revision, if such change is not a modification

under any provision of Title I of the Act [as defined in OAC rule 3745-77-01(JJ)], and does not result in an exceedance of the emissions allowed under this permit (whether expressed therein as a rate of emissions or in terms of total emissions), and the permittee provides the Administrator of the U.S. EPA and the appropriate Ohio EPA District Office or local air agency with written notification within a minimum of seven days in advance of the proposed changes, unless the change is associated with, or in response to, emergency conditions. If less than seven days notice is provided because of a need to respond more quickly to such emergency conditions, the permittee shall provide notice to the Administrator of the U.S. EPA and the appropriate District Office of the Ohio EPA or local air agency as soon as possible after learning of the need to make the change. The notification shall contain the items required under OAC rule 3745-77-07(H)(2)(d).

*(Authority for term: OAC rules 3745-77-07(H)(1) and (2))*

## **15. Emergencies**

The permittee shall have an affirmative defense of emergency to an action brought for noncompliance with technology-based emission limitations if the conditions of OAC rule 3745-77-07(G)(3) are met. This emergency defense provision is in addition to any emergency or upset provision contained in any applicable requirement.

*(Authority for term: OAC rule 3745-77-07(G))*

## **16. Off-Permit Changes**

The owner or operator of a Title V source may make any change in its operations or emissions at the source that is not specifically addressed or prohibited in the Title V permit, without obtaining an amendment or modification of the permit, provided that the following conditions are met:

- a. The change does not result in conditions that violate any applicable requirements or that violate any existing federally enforceable permit term or condition.
- b. The permittee provides contemporaneous written notice of the change to the Director and the Administrator of the U.S. EPA, except that no such notice shall be required for changes that qualify as insignificant emission levels or activities as defined in OAC rule 3745-77-01(U). Such written notice shall describe each such change, the date of such change, any change in emissions or pollutants emitted, and any federally applicable requirement that would apply as a result of the change.
- c. The change shall not qualify for the permit shield under OAC rule 3745-77-07(F).
- d. The permittee shall keep a record describing all changes made at the source that result in emissions of a regulated air pollutant subject to an applicable requirement, but not otherwise regulated under the permit, and the emissions resulting from those changes.
- e. The change is not subject to any applicable requirement under Title IV of the Act or is not a modification under any provision of Title I of the Act.

Paragraph (I) of rule 3745-77-07 of the Administrative Code applies only to modification or amendment of the permittee's Title V permit. The change made may require a permit to install under Chapter 3745-31 of the Administrative Code if the change constitutes a modification as defined in that Chapter. Nothing in paragraph

(I) of rule 3745-77-07 of the Administrative Code shall affect any applicable obligation under Chapter 3745-31 of the Administrative Code.

(For purposes of clarification, the permittee can refer to Engineering Guide #63 that is available in the STARSHIP software package.)

*(Authority for term: OAC rule 3745-77-07(I))*

**17. Compliance Method Requirements**

Nothing in this permit shall alter or affect the ability of any person to establish compliance with, or a violation of, any applicable requirement through the use of credible evidence to the extent authorized by law. Nothing in this permit shall be construed to waive any defenses otherwise available to the permittee, including but not limited to, any challenge to the Credible Evidence Rule (see 62 Fed. Reg. 8314, Feb. 24, 1997), in the context of any future proceeding.

*(This term is provided for informational purposes only.)*

**18. Insignificant Activities**

Each insignificant activity that has one or more applicable requirements shall comply with those applicable requirements.

*(Authority for term: OAC rule 3745-77-07(A)(1))*

**19. Permit to Install Requirement**

Prior to the “installation” or “modification” of any “air contaminant source,” as those terms are defined in OAC rule 3745-31-01, a permit to install must be obtained from the Ohio EPA pursuant to OAC Chapter 3745-31.

*(Authority for term: OAC rule 3745-77-07(A)(1))*

**20. Air Pollution Nuisance**

The air contaminants emitted by the emissions units covered by this permit shall not cause a public nuisance, in violation of OAC rule 3745-15-07.

*(Authority for term: OAC rule 3745-77-07(A)(1))*

**B. *State Only Enforceable Section***

**1. Reporting Requirements Related to Monitoring and Record Keeping Requirements**

The permittee shall submit required reports in the following manner:

- a. Reports of any required monitoring and/or record keeping information shall be submitted to the appropriate Ohio EPA District Office or local air agency.
- b. Except as otherwise may be provided in the terms and conditions for a specific emissions unit, quarterly written reports of (i) any deviations (excursions) from emission limitations, operational restrictions, and control device operating parameter limitations that have been detected by the testing, monitoring, and record keeping requirements specified in this permit, (ii) the probable cause of such deviations, and (iii) any corrective actions or preventive measures which have been or will be taken, shall be submitted to the appropriate Ohio EPA District Office or local air agency. In identifying each deviation, the permittee shall specify the applicable requirement for which the deviation occurred, describe each deviation, and provide the magnitude and duration of each deviation. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted quarterly, i.e., by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. (These quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06.)

**2. Records Retention Requirements**

Each record of any monitoring data, testing data, and support information required pursuant to this permit shall be retained for a period of five years from the date the record was created. Support information shall include, but not be limited to, all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. Such records may be maintained in computerized form.

**3. Inspections and Information Requests**

The Director of the Ohio EPA, or an authorized representative of the Director, may, subject to the safety requirements of the permittee and without undue delay, enter upon the premises of this source at any reasonable time for purposes of making inspections, conducting tests, examining records or reports pertaining to any emission of air contaminants, and determining compliance with any applicable State air pollution laws and regulations and the terms and conditions of this permit. The permittee shall furnish to the Director of the Ohio EPA, or an authorized representative of the Director, upon receipt of a written request and within a reasonable time, any information that may be requested to determine whether cause exists for modifying, reopening or revoking this permit or to determine compliance with this permit. Upon verbal or written request, the permittee shall also furnish to the Director of the Ohio EPA, or an authorized representative of the Director, copies of records required to be kept by this permit.

**4. Scheduled Maintenance/Malfunction Reporting**

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. The malfunction of any emissions units or any associated air pollution control system(s) shall be reported to the appropriate Ohio EPA District Office or local air agency in accordance with

paragraph (B) of OAC rule 3745-15-06. Except as provided in that rule, any scheduled maintenance or malfunction necessitating the shutdown or bypassing of any air pollution control system(s) shall be accompanied by the shutdown of the emissions unit(s) that is (are) served by such control system(s).

**5. Permit Transfers**

Any transferee of this permit shall assume the responsibilities of the prior permit holder. The appropriate Ohio EPA District Office or local air agency must be notified in writing of any transfer of this permit.

**6. Additional Reporting Requirements When There Are No Deviations of Federally Enforceable Emission Limitations, Operational Restrictions, or Control Device Operating Parameter Limitations (See Section A of This Permit)**

If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted quarterly, i.e., by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters.

## Part II - Specific Facility Terms and Conditions

### A. State and Federally Enforcable Section

None

### B. State Only Enforceable Section

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

B004 - gas space heaters  
B005 - B028: 9.9 mmBtu/hr, natural gas fired-heating units  
B029 - B039: 5.4 mmBtu/hr, natural gas fired-heating units  
B040, B041 - 4.32 mmBtu/hr, natural gas fired-heating units  
B042 - 2.7 mmBtu/hr, natural gas fired-heating unit  
B043 -B046: 9.65 mmBtu/hr, natural gas fired-heating units  
K004 - V-6 rust inhibitor spray booth  
P035 - 3.9 L V-8 engine crankshaft machining line  
P036 - 3.9 L V-8 engine camshaft machining line  
P043 - Honsberg flexible cylinder head machining line  
P052 - oil mist collection system (mist collector 7) for 3.0 L Vulcan V6 front cover machining line  
P053 - engine machining operation with air washer collection system (AW-28)  
P054 - engine machining operation with air washer collection system (AW-29)  
P055 - engine machining operation with air washer collection system (AW-30)  
P056 - engine machining operation with air washer collection system (AW-31)  
P057 - engine machining operation with air washer collection system (AW-32)  
P058 - engine machining operation with air washer collection system (AW-33)  
P059 - engine machining operation with air washer collection system (AW-34)  
P060 - engine machining operation with air washer collection system (AW-40)  
P061 - engine machining operation with dust collection system (DC-1)  
P062 - engine machining operation with dust collection system (DC-2)  
P063 - engine machining operation with dust collection system (DC-3)  
P064 - engine machining operation with dust collection system (DC-4)  
P065 - engine machining operation with dust collection system (DC-5)  
P066 - engine machining operation with dust collection system (DC-6)  
P067 - engine machining operation with dust collection system (DC-7)  
P068 - engine machining operation with dust collection system (DC-8)  
P069 - engine machining operation with dust collection system (DC-9)

**B. State Only Enforceable Section (continued)**

- P070 - engine machining operation with dust collection system (DC-10)
- P071 - engine machining operation with dust collection system (DC-13)
- P072 - engine machining operation with dust collection system (DC-14)
- P073 - engine machining operation with dust collection system (DC-15)
- P075 - engine machining operation with oil mist collection system (MC-3)
- P077 - engine machining operation with oil mist collection system (MC-5)
- P078 - engine machining operation with oil mist collection system (MC-6)
- P079 - engine machining operation with oil mist collection system (MC-7)
- P080 - engine machining operation with oil mist collection system (MC-8)
- P081 - engine machining operation with oil mist collection system (MC-9)
- P083 - engine machining operation with oil mist collection system (MC-12)
- P084 - engine machining operation with oil mist collection system (MC-13)
- P085 - engine machining operation with oil mist collection system (MC-14)
- P087 - engine machining operation with oil mist collection system (MC-16)
- P088 - engine machining operation with oil mist collection system (MC-17)
- P089 - engine machining operation with oil mist collection system (MC-18)
- P090 - engine machining operation with oil mist collection system (MC-19)
- P092 - engine machining operation with oil mist collection system (MC-22)
- P093 - engine machining operation with oil mist collection system (MC-24)
- P094 - engine machining operation with oil mist collection system (MC-25)
- P095 - engine machining operation with oil mist collection system (MC-26)
- P096 - engine machining operation with oil mist collection system (MC-28)
- P097 - engine machining operation with oil mist collection system (MC-29)
- P098 - engine machining operation with oil mist collection system (MC-30)
- P101 - engine machining operation with oil mist collection system (MC-33)
  
- P102 - engine machining operation with oil mist collection system (MC-34)
- P103 - engine machining operation with oil mist collection system (MC-35)
- P104 - engine machining operation with oil mist collection system (MC-36)
- P105 - engine machining operation with oil mist collection system (MC-37)
- T001, T002, T004 - gasoline storage and supply systems
- T003, T006, T007, T009 - engine oil storage tanks
- T005 - soluble oil storage tank
- T008 - lube oil storage tank
- T010 - mineral seal oil storage tank
- T011 - hydraulic oil storage tanks
- Z001 - machining lines
- Z002 - diesel fire pumps
- Z009 - propane storage tanks
- Z021 - WWTP storage and treatment tanks
- Z023 - diesel storage and fueling operations
- Z033 - maintenance solvent cold cleaners
- Z034 - ink-jet printer stations
- Z038 - detergent washers
- Z039 - coolant storage and recirculation system
- Z040 - natural gas heaters
- Z041 - cutter grind -west, center and east
- Z042 - tool room

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 PTI for the emissions unit.

### Part III - Terms and Conditions for Emissions Units

**Emissions Unit ID:** V6 Engine Hot Test Stands (P026)  
**Activity Description:** V6 Engine Hot Test Stands, with Thermal Oxidizer"

#### A. State and Federally Enforceable Section

##### 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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
3.0-liter, V6 engine hot test/repair stands, and fuel rail blow down, with thermal oxidizer	OAC rule 3745-31-05(A)(3) (PTI #03-13987)	10.2 lbs of carbon monoxide (CO)/hr and 44.68 tons of CO/yr  1.5 lbs of organic compounds (OC)/hr and 6.57 tons of OC/yr  2.0 lbs of nitrogen oxides (NOx)/hr and 8.76 tons of NOx/yr  See A.I.2.a.  The requirements of this rule also include compliance with the requirements of OAC rules 3745-23-06(B), 3745-21-08(B) and 3745-18-06(E).
	OAC rule 3745-17-11(B)(1)	none (See A.I.2.b.)
	OAC rule 3745-17-07(A)	none (See A.I.2.c.)
	OAC rule 3745-23-06(B)	See A.I.2.d.
	OAC rule 3745-18-06(E)	exempt (See A.I.2.e.)
	OAC rule 3745-21-08(B)	See A.I.2.g.

##### 2. Additional Terms and Conditions

- 2.a "Best available technology" (BAT) control requirements for this emissions unit have been determined to be the use of a thermal oxidizer for control of CO and OC emissions from the carousel engine exhaust, repair stand engine exhaust, and fuel rail blow down exhaust emissions. The thermal oxidizer shall be designed and operated to achieve a minimum overall control efficiency of 95% for CO (100% capture and 95% destruction efficiency) and a minimum overall control efficiency of 95% for OC (100% capture and 95% destruction efficiency).

## **2. Additional Terms and Conditions (continued)**

- 2.b** 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 to the exhaust stack because the process weight, as defined in OAC rule 3745-17-01(B)(14), does not include gaseous fuels used solely as fuels. In addition, Table I of OAC rule 3745-17-11 does not apply to the fuel rail blow down vent because the process weight rate cannot be ascertained, as described in OAC 3745-17-11(A)(2)(b)(i).
- 2.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.
- 2.d** 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 03-13987.
- 2.e** The maximum process weight rate is less than 1,000 pounds/hr. Therefore, this emissions unit is exempt from the SO<sub>2</sub> emission limitation based on OAC rule 3745-18-06(E), pursuant to OAC rule 3745-18-06(C).
- 2.f** For purposes of federal enforceability, all OCs are considered to be VOCs.
- 2.g** 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 03-13987.

## **II. Operational Restrictions**

- 1. The average combustion temperature within the thermal oxidizer, for any 3-hour block of time when the emissions unit is in operation, shall not be more than 50 degrees Fahrenheit below the average temperature during the most recent emission test that demonstrated the emissions unit was in compliance.

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

- 1. The permittee shall operate and maintain a continuous temperature monitor and recorder which measures and records the combustion temperature within the thermal oxidizer when the emissions unit is in operation. Units shall be in degrees Fahrenheit. The monitoring and recording devices shall be capable of accurately measuring the desired parameter. The temperature monitor and recorder shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, with any modifications deemed necessary by the permittee.
- 2. The permittee shall collect and record the following information for each day:
  - a. All 3-hour blocks of time during which the average combustion temperature within the thermal oxidizer, when the emissions unit was in operation, was more than 50 degrees Fahrenheit below the average temperature during the most recent emission test that demonstrated the emissions unit was in compliance.
  - b. A log of the downtime for the capture (collection) system, control device, and monitoring equipment, when the associated emissions unit was in operation.

## **IV. Reporting Requirements**

- 1. The permittee shall submit quarterly deviation (excursion) reports that identify all 3-hour blocks of time during which the average combustion temperature within the thermal oxidizer, when the emissions unit was in operation, was more than 50 degrees Fahrenheit below the average temperature during the most recent emission test that demonstrated the emissions unit was in compliance.

The deviation reports shall be submitted in accordance with paragraph A.I.c of the General Terms and Conditions of this permit.

#### **IV. Reporting Requirements (continued)**

2. The permittee shall submit quarterly summary reports that include a log of the downtime for the capture (collection) system, control device and monitoring equipment when the associated emissions unit was in operation.

#### **V. Testing Requirements**

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

- 1.a Emission Limitations:  
10.2 lbs of CO/hr and 44.68 tons of CO/yr

Applicable Compliance Method:

The permittee shall demonstrate compliance with the hourly CO emission limitation based on the test results of emission testing conducted in accordance with Methods 1 - 4 and 10 of 40 CFR, Part 60, Appendix A.

Compliance with the annual emission limitation shall be ensured as long as compliance with the hourly emission limitation is maintained (the annual emission limitation was determined by multiplying the hourly emission limitation by 8,760, and then dividing by 2,000).

- 1.b Emission Limitations:  
1.5 lbs of OC/hr and 6.57 tons of OC/yr

Applicable Compliance Method:

The permittee shall demonstrate compliance with the hourly OC emission limitation based on the test results of emission testing conducted in accordance with Methods 18, 25, or 25A, as appropriate, of 40 CFR, Part 60, Appendix A.

Compliance with the annual emission limitation shall be ensured as long as compliance with the hourly emission limitation is maintained (the annual emission limitation was determined by multiplying the hourly emission limitation by 8,760, and then dividing by 2,000).

- 1.c Emission Limitations:  
2.0 lbs of NOx/hr and 8.76 tons of NOx/yr

Applicable Compliance Method:

The permittee shall demonstrate compliance with the hourly NOx emission limitation based on the test results of emission testing conducted in accordance with Methods 1 - 4 and 7 of 40 CFR, Part 60, Appendix A.

Compliance with the annual emission limitation shall be ensured as long as compliance with the hourly emission limitation is maintained (the annual emission limitation was determined by multiplying the hourly emission limitation by 8,760, and then dividing by 2,000).

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

- 2.a The emission testing shall be conducted within 6 months after permit issuance. Further testing may be requested in accordance with Engineering Guide #16.

- 2.b The emission testing shall be conducted to demonstrate compliance with the allowable hourly mass emission rates for CO, OC and NOx emissions from the thermal oxidizer; the minimum overall control efficiency of 95% for CO (100% capture and 95% destruction efficiency); and the minimum overall control efficiency of 95% for OC (100% capture and 95% destruction efficiency).

## V. Testing Requirements (continued)

- 2.c** The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s):

CO: Methods 1 - 4 and 10 of 40 CFR Part 60, Appendix A.

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

NOx: Methods 1 - 4 and 7E of 40 CFR Part 60, Appendix A.

The test method(s) which must be employed to demonstrate compliance with the control efficiencies for CO and OC are specified below. Alternative U.S. EPA-approved test methods may be used with prior approval from the Ohio EPA.

- 2.d** 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 Ohio EPA, Northwest District Office.
- 2.e** The capture efficiency shall be determined using applicable criteria from Methods 204 through 204F, as specified in 40 CFR Part 51, Appendix M, or the permittee may request to use an alternative method or procedure for the determination of capture efficiency in accordance with the USEPA's "Guidelines for Determining Capture Efficiency," dated January 9, 1995. (The Ohio EPA will consider the request, including an evaluation of the applicability, necessity, and validity of the alternative, and may approve the use of the alternative if such approval does not contravene any other applicable requirement.) The thermal incinerator destruction efficiency for OC (i.e., the percent reduction in mass emissions between the inlet and outlet of the control system) shall be determined in accordance with the test methods and procedures specified in Methods 18, 25, or 25A of 40 CFR Part 60, Appendix A. The test methods and procedures selected shall be based on a consideration of the diversity of the organic species present and their total concentration, and on a consideration of the potential presence of interfering gases.

The thermal incinerator destruction efficiency for CO shall be determined by measuring the percent reduction in mass emissions of carbon monoxide between the inlet and outlet of the thermal incinerator using Method 10 of 40 CFR, Part 60, Appendix A.

- 3.** Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. 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 Ohio EPA District Office's or local air agency's refusal to accept the results of the emission test(s).

Personnel from the appropriate Ohio EPA District Office or local air agency 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 emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency within 60 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 appropriate Ohio EPA District Office or local air agency.

## VI. Miscellaneous Requirements

**None**

**B. State Enforceable Section**

**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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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**2. Additional Terms and Conditions**

None

**II. Operational Restrictions**

None

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

None

**IV. Reporting Requirements**

None

**V. Testing Requirements**

None

**VI. Miscellaneous Requirements**

None

### Part III - Terms and Conditions for Emissions Units

**Emissions Unit ID:** 3.9L V-8 Engine Hot Test (DEW) (P042)  
**Activity Description:** 3.9L V-8 Engine Hot Test.

#### A. State and Federally Enforceable Section

##### I. Applicable Emissions Limitations and/or Control Requirements

- 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>
3.9-liter, V-8 engine hot test/repair stands, and fuel rail blow down, with enclosed flare	OAC rule 3745-17-11(B)(1)	none (See A.I.2.a.)
	OAC rule 3745-17-07(A)	none (See A.I.2.b.)
	OAC rule 3745-31-05(A)(3) (PTI #03-13490)	for the engine exhaust stack:  1.52 lbs of organic compounds (OC)/hr and 6.66 tons of OC/yr  14.36 lbs of carbon monoxide (CO)/hr and 62.91 tons of CO/yr  5.92 lbs of nitrogen oxides (NOx)/hr and 25.93 tons of NOx/yr  for the fuel rail blow down:  0.6 lb of OC/hr and 2.63 tons of OC/y  1.0 lb of CO/hr and 4.38 tons of CO/y  0.16 lb of NOx/hr and 0.70 ton of NOx/yr  See A.II.2. and A.I.2.c  The requirements of this rule also include compliance with the requirements of OAC rules 3745-23-06(B), 3745-21-08(B) and 3745-18-06(E).
	OAC rule 3745-23-06(B)	See A.I.2.d.
	OAC rule 3745-18-06(E)	exempt (See A.I.2.e.)

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
	OAC rule 3745-21-08(B)	See A.I.2.g.

## 2. Additional Terms and Conditions

- 2.a** 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. Also, 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 gaseous fuels and liquid fuels that are used solely as fuels for the purpose of combustion.
- 2.b** This emissions unit is exempt from the visible particulate emissions limitations specified in OAC rule 3745-17-07(A), pursuant to OAC rule 3745-07(A)(3)(h), because the emissions unit is not subject to the requirements of OAC rule 3745-17-11.
- 2.c** The flare shall be designed and operated such that no visible emissions, as determined by "Method 22, 40 CFR, Part 60, Appendix A" are observed, except for periods not to exceed a total of five minutes during any 120 consecutive minutes.
- 2.d** 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 03-13490.
- 2.e** The maximum process weight rate is less than 1,000 pounds/hr. Therefore, this emissions unit is exempt from the SO<sub>2</sub> emission limitation based on OAC rule 3745-18-06(E), pursuant to OAC rule 3745-18-06(C).
- 2.f** For purposes of federal enforceability, all OCs are considered to be VOCs.
- 2.g** 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 03-13490.

## II. Operational Restrictions

1. A pilot flame shall be maintained at all times in the flare's pilot light burner when the emissions unit is in operation.
2. Process vent streams from the engine fuel rail blow down system shall be combusted with an enclosed flare capable of achieving a minimum destruction efficiency of 95%, by weight, for OC.

## III. Monitoring and/or Record Keeping Requirements

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

The permittee shall record the following information each day: a log of all periods of time during which there was no pilot flame while the emissions unit was in operation.

## IV. Reporting Requirements

1. The permittee shall submit quarterly summaries that include all periods of time during which there was no pilot flame while the emissions unit was in operation.

## V. Testing Requirements

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

1.a Emission Limitations:  
1.52 lbs of OC/hr and 6.66 tons of OC/yr, from the engine exhaust stack

Applicable Compliance Method:

The permittee may determine compliance with the hourly allowable OC emission limitation by multiplying an emission factor of 0.38 lb of OC/engine-hr\* by the maximum hourly engine production rate (40 engines/hr) and by 6\*\*, and then dividing by 60.

\* emission factor supplied by the permittee

\*\* a factor to account for the fact that testing of each engine lasts 6 minutes

If required, the permittee shall demonstrate compliance with the hourly allowable OC emission limitation based on the results of emission testing conducted in accordance with 40 CFR, Part 60, Appendix A, Method 18, Method 25, or Method 25A, as appropriate.

Compliance with the annual allowable emission limitation shall be assumed as long as compliance with the hourly allowable emission limitation is maintained (the annual allowable emission limitation was calculated by multiplying the hourly allowable emission limitation by 8760, and then dividing by 2000).

1.b Emission Limitations:  
14.36 lbs of CO/hr and 62.91 tons of CO/yr, from the engine exhaust stack

Applicable Compliance Method:

The permittee may determine compliance with the hourly allowable CO emission limitation by multiplying an emission factor of 3.59 lbs of CO/engine-hr\* by the maximum hourly engine production rate (40 engines/hr) and by 6\*\*, and then dividing by 60.

\* emission factor supplied by the permittee

\*\* a factor to account for the fact that testing of each engine lasts 6 minutes

If required, the permittee shall demonstrate compliance with the hourly allowable CO emission limitation based on the results of emission testing conducted in accordance with 40 CFR, Part 60, Appendix A, Methods 1 through 4 and 10.

Compliance with the annual allowable emission limitation shall be assumed as long as compliance with the hourly allowable emission limitation is maintained (the annual allowable emission limitation was calculated by multiplying the hourly allowable emission limitation by 8760, and then dividing by 2000).

## V. Testing Requirements (continued)

- 1.c** Emission Limitations:  
5.92 lbs of NOx/hr and 25.93 tons of NOx/yr, from the engine exhaust stack

Applicable Compliance Method:

The permittee may determine compliance with the hourly allowable NOx emission limitation by multiplying an emission factor of 1.48 lbs of NOx/engine-hr\* by the maximum hourly engine production rate (40 engines/hr) and by 6\*\*, and then dividing by 60.

\* emission factor supplied by the permittee

\*\* a factor to account for the fact that testing of each engine lasts 6 minutes

If required, the permittee shall demonstrate compliance with the hourly allowable NOx emission limitation based on the results of emission testing conducted in accordance with 40 CFR, Part 60, Appendix A, Methods 1 through 4 and 7E.

Compliance with the annual allowable emission limitation shall be assumed as long as compliance with the hourly allowable emission limitation is maintained (the annual allowable emission limitation was calculated by multiplying the hourly allowable emission limitation by 8760, and then dividing by 2000).

- 1.d** Emission Limitations:  
0.6 lb of OC/hr and 2.63 tons of OC/yr, from the fuel rail blow down

Applicable Compliance Method:

The permittee may determine compliance with the hourly allowable OC emission limitation by multiplying an emission factor of 0.30 lb of OC/engine\* by the maximum hourly engine production rate (40 engines/hr), and then multiplying by a control factor of (1-0.95).\*\*

\* emission factor supplied by the permittee

\*\* The overall control efficiency of the flare is assumed to be 95%, by weight.

If required, the permittee shall demonstrate compliance with the hourly allowable OC emission limitation based on the results of emission testing conducted in accordance with 40 CFR, Part 60, Appendix A, Method 18, Method 25, or Method 25A, as appropriate.

Compliance with the annual allowable emission limitation shall be assumed as long as compliance with the hourly allowable emission limitation is maintained (the annual allowable emission limitation was calculated by multiplying the hourly allowable emission limitation by 8760, and then dividing by 2000).

## **V. Testing Requirements (continued)**

- 1.e** Emission Limitations:  
1.0 lbs of CO/hr and 4.38 tons of CO/yr, from the fuel rail blow down

**Applicable Compliance Method:**

The permittee may determine compliance with the hourly allowable CO emission limitation by multiplying an emission factor of 0.025 lb of CO/engine tested\* by the maximum hourly number of engines tested (40 engines/hr).

\* emission factor supplied by the permittee

If required, the permittee shall demonstrate compliance with the hourly allowable CO emission limitation based on the results of emission testing conducted in accordance with 40 CFR, Part 60, Appendix A, Methods 1 through 4 and 10.

Compliance with the annual allowable emission limitation shall be assumed as long as compliance with the hourly allowable emission limitation is maintained (the annual allowable emission limitation was calculated by multiplying the hourly allowable emission limitation by 8760, and then dividing by 2000).

- 1.f** Emission Limitations:  
0.16 lb of NOx/hr and 0.70 ton of NOx/yr, from the fuel rail blow down

**Applicable Compliance Method:**

The permittee may determine compliance with the hourly allowable NOx emission limitation by multiplying an emission factor of 0.004 lb of NOx/engine tested\* by the maximum hourly number of engines tested (40 engines/hr).

\* emission factor supplied by the permittee

If required, the permittee shall demonstrate compliance with the hourly allowable NOx emission limitation based on the results of emission testing conducted in accordance with 40 CFR, Part 60, Appendix A, Methods 1 through 4 and 7E.

Compliance with the annual allowable emission limitation shall be assumed as long as compliance with the hourly allowable emission limitation is maintained (the annual allowable emission limitation was calculated by multiplying the hourly allowable emission limitation by 8760, and then dividing by 2000).

## **VI. Miscellaneous Requirements**

**None**

**B. State Enforceable Section**

**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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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**2. Additional Terms and Conditions**

None

**II. Operational Restrictions**

None

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

None

**IV. Reporting Requirements**

None

**V. Testing Requirements**

None

**VI. Miscellaneous Requirements**

None

### Part III - Terms and Conditions for Emissions Units

**Emissions Unit ID:** Dynamometer Test Cells (WEST SIDE) (P050)  
**Activity Description:** 3 Cells, Engine Testing Dynamometer Facility - West Block

#### A. State and Federally Enforceable Section

##### I. Applicable Emissions Limitations and/or Control Requirements

- 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>
3 cells, engine testing dynamometer facility (west block), with thermal incinerator	OAC rule 3745-31-05(A)(3) (PTI #03-7762)(modification)	2.88 lbs of nitrogen oxides (NOx)/hr and 12.61 tons of NOx/yr
		0.15 lb of organic compounds (OC)/hr and 0.66 ton of OC/yr
		See A.I.2.a and A.I.2.b.
	OAC rule 3745-31-05(D) (PTI #03-7762)(modification)	9.15 lbs of carbon monoxide (CO)/hr and 40.08 tons of CO/yr (See A.I.2.c.)
	OAC rule 3745-21-07(G)(2)	See A.I.2.d.
	OAC rule 3745-17-11(B)(1)	none (See A.I.2.e.)
	OAC rule 3745-17-07(A)	none (See A.I.2.f.)

##### 2. Additional Terms and Conditions

- The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-05(D).
- This emissions unit shall be equipped with a thermal incinerator capable of achieving a minimum overall control efficiency of 95%, by weight, for OC (100% capture and 95% destruction efficiency) and a minimum overall control efficiency of 95% for CO (100% capture and 95% destruction efficiencies). All emissions from the 3 west block engine testing cells shall be routed to the thermal incinerator.
- The permittee has requested a federally enforceable restriction of 9.15 lbs of CO per hour and 40.08 tons of CO per year for purposes of avoiding PSD.
- The emission limitation/control requirements specified by this rule are less stringent than the emission limitations/control requirements established pursuant to OAC rule 3745-31-05(A)(3).

## **2. Additional Terms and Conditions (continued)**

- 2.e** 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 gaseous fuels and liquid fuels that are used solely as fuels for the purpose of combustion.

- 2.f** This emissions unit is exempt from the visible particulate emissions limitations specified in OAC rule 3745-17-07(A), pursuant to OAC rule 3745-07(A)(3)(h), because the emissions unit is not subject to the requirements of OAC rule 3745-17-11.

## **II. Operational Restrictions**

1. None of the 3 west block engine testing cells shall operate whenever the average combustion temperature within the thermal incinerator is more than 50 degrees Fahrenheit below the average temperature during the most recent emission test that demonstrated the emissions unit was in compliance. This condition shall be met by operating and maintaining the existing interlock system on the thermal incinerator which shuts down the emissions unit when the combustion temperature is below the required level.

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

1. The permittee shall operate and maintain a continuous temperature monitor and recorder which measures and records the combustion temperature within the thermal incinerator when the emissions unit is in operation. Units shall be in degrees Fahrenheit. The monitoring and recording devices shall be capable of accurately measuring the desired parameter. The temperature monitor and recorder shall be calibrated, operated and maintained in accordance with the manufacturer's recommendations, with any modifications deemed necessary by the permittee.
2. The permittee shall collect and record the following information for each day the emissions unit is in operation: A log of the downtime for the capture (collection) system, control device, and monitoring equipment, when the associated emissions unit was in operation.
3. The permittee shall maintain a log of the activation of the interlock system when the emissions unit is not shut down. This log shall include the date, time and duration of each such period.
4. The permittee shall, on a quarterly basis, test the interlock system to ensure that the emissions unit does shut down whenever the average combustion temperature within the thermal incinerator is more than 50 degrees Fahrenheit below the average temperature during the most recent emission test that demonstrated the emissions unit was in compliance

The permittee shall maintain records of the quarterly tests of the interlock system.

## **IV. Reporting Requirements**

1. The permittee shall submit quarterly summaries that include 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 submit quarterly deviation (excursion) reports that identify all periods of time when the interlock system was activated and the emissions unit was not shut down. 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.

## **V. Testing Requirements**

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

## V. Testing Requirements (continued)

- 1.a** Emission Limitations:  
2.88 lbs of NOx/hr and 12.61 tons of NOx/yr

Applicable Compliance Method:

The permittee shall demonstrate compliance with the hourly allowable NOx emission limitation above based upon the results of emission testing conducted in accordance with 40 CFR, Part 60, Appendix A, Methods 1 through 4 and 7E.

Compliance with the annual limitation shall be shown as long as compliance with the hourly limitation is maintained (the annual limitation was calculated by multiplying the hourly limitation by 8760, and then dividing by 2000).

- 1.b** Emission Limitations:  
9.15 lbs of CO/hr and 40.08 tons of CO/yr

Applicable Compliance Method:

The permittee shall demonstrate compliance with the hourly allowable CO emission limitation above based upon the results of emission testing conducted in accordance with 40 CFR, Part 60, Appendix A, Methods 1 through 4 and 10.

Compliance with the annual limitation shall be shown as long as compliance with the hourly limitation is maintained (the annual limitation was calculated by multiplying the hourly limitation by 8760, and then dividing by 2000).

- 1.c** Emission Limitations:  
0.15 lb of OC/hr and 0.66 ton of OC/yr

Applicable Compliance Method:

The permittee shall demonstrate compliance with the hourly allowable OC emission limitation above based upon the results of emission testing conducted in accordance with 40 CFR, Part 60, Appendix A, Methods 18, 25, or 25A, as appropriate.

Compliance with the annual limitation shall be shown as long as compliance with the hourly limitation is maintained (the annual limitation was calculated by multiplying the hourly limitation by 8760, and then dividing by 2000).

- 1.d** Emission Limitation:  
95% overall control efficiency for OC and for CO

Applicable Compliance Method:

The permittee shall demonstrate compliance with the overall control efficiency requirement in accordance with the methods and procedures outlined in Section A.V.2 of this permit.

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

- 2.a** The emission testing shall be conducted within 6 months after permit issuance. Further testing may be requested in accordance with Engineering Guide #16.

- 2.b** The emission testing shall be conducted to demonstrate compliance with the hourly allowable mass emission rates for NOx, OC and CO. The emission testing shall also be conducted to demonstrate compliance with the overall control system efficiencies for OC and for CO, and shall include a determination of the thermal incinerator destruction efficiency for CO and OC. [The capture efficiency for the thermal incinerator is assumed to be 100 percent.]

## **V. Testing Requirements (continued)**

- 2.c** The following test methods shall be employed to demonstrate compliance with the allowable mass emission rates:

NOx: Methods 1 through 4 and 7E, 40 CFR, Part 60, Appendix A

OC: Methods 18, 25 or 25A, as appropriate, of 40 CFR, Part 60, Appendix A

CO: Methods 1 through 4 and 10, 40 CFR, Part 60, Appendix A

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

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

The 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 thermal incinerator destruction efficiency for CO shall be determined by measuring the percent reduction in mass emissions of carbon monoxide between the inlet and outlet of the thermal incinerator.

- 2.d** 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 appropriate Ohio EPA District Office or local air agency.
- 3.** Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. 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 Ohio EPA District Office's or local air agency's refusal to accept the results of the emission test(s).

Personnel from the appropriate Ohio EPA District Office or local air agency 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 emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency within 60 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 appropriate Ohio EPA District Office or local air agency.

## **VI. Miscellaneous Requirements**

**None**

**B. State Enforceable Section**

**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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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**2. Additional Terms and Conditions**

None

**II. Operational Restrictions**

None

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

None

**IV. Reporting Requirements**

None

**V. Testing Requirements**

None

**VI. Miscellaneous Requirements**

None

### Part III - Terms and Conditions for Emissions Units

**Emissions Unit ID:** Dynamometer Test Cell (EAST SIDE) (P051)  
**Activity Description:** 4 Cells, Engine Testing Dynamometer Facility - East Block

#### A. State and Federally Enforceable Section

##### 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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
4 cells, engine testing dynamometer facility (east block), with thermal incinerator	OAC rule 3745-31-05(A)(3) (PTI #03-7762)(modification)	3.84 lbs of nitrogen oxides (NOx)/hr and 16.82 tons of NOx/yr
		0.20 lb of organic compounds (OC)/hr and 0.88 ton of OC/yr
		See A.I.2.a and A.I.2.b.
	OAC rule 3745-31-05(D) (PTI #03-7762)(modification)	12.20 lbs of carbon monoxide (CO)/hr and 53.44 tons of CO/yr (See A.I.2.c.)
	OAC rule 3745-21-07(G)(2)	See A.I.2.d.
	OAC rule 3745-17-11(B)(1)	none (See A.I.2.e.)
	OAC rule 3745-17-07(A)	none (See A.I.2.f.)

##### 2. Additional Terms and Conditions

- 2.a The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-05(D).
- 2.b This emissions unit shall be equipped with a thermal incinerator capable of achieving a minimum overall control efficiency of 95%, by weight, for OC (100% capture and 95% destruction efficiency) and a minimum overall control efficiency of 95% for CO (100% capture and 95% destruction efficiencies). All emissions from the 4 east block engine testing cells shall be routed to the thermal incinerator.
- 2.c The permittee has requested a federally enforceable restriction of 12.20 lbs of CO per hour and 53.44 tons of CO per year for purposes of avoiding PSD.
- 2.d The emission limitation/control requirements specified by this rule are less stringent than the emission limitations/control requirements established pursuant to OAC rule 3745-31-05(A)(3).

## **2. Additional Terms and Conditions (continued)**

- 2.e** 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 gaseous fuels and liquid fuels that are used solely as fuels for the purpose of combustion.

- 2.f** This emissions unit is exempt from the visible particulate emissions limitations specified in OAC rule 3745-17-07(A), pursuant to OAC rule 3745-07(A)(3)(h), because the emissions unit is not subject to the requirements of OAC rule 3745-17-11.

## **II. Operational Restrictions**

1. None of the 4 east block engine testing cells shall operate whenever the average combustion temperature within the thermal incinerator is more than 50 degrees Fahrenheit below the average temperature during the most recent emission test that demonstrated the emissions unit was in compliance. This condition shall be met by operating and maintaining the existing interlock system on the thermal incinerator which shuts down the emissions unit when the combustion temperature is below the required level.

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

1. The permittee shall operate and maintain a continuous temperature monitor and recorder which measures and records the combustion temperature within the thermal incinerator when the emissions unit is in operation. Units shall be in degrees Fahrenheit. The monitoring and recording devices shall be capable of accurately measuring the desired parameter. The temperature monitor and recorder shall be calibrated, operated and maintained in accordance with the manufacturer's recommendations, with any modifications deemed necessary by the permittee.
2. The permittee shall collect and record the following information for each day the emissions unit is in operation: A log of the downtime for the capture (collection) system, control device, and monitoring equipment, when the associated emissions unit was in operation.
3. The permittee shall maintain a log of the activation of the interlock system when the emissions unit is not shut down. This log shall include the date, time and duration of each such period.
4. The permittee shall, on a quarterly basis, test the interlock system to ensure that the emissions unit does shut down whenever the average combustion temperature within the thermal incinerator is more than 50 degrees Fahrenheit below the average temperature during the most recent emission test that demonstrated the emissions unit was in compliance

The permittee shall maintain records of the quarterly tests of the interlock system.

## **IV. Reporting Requirements**

1. The permittee shall submit quarterly summaries that include 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 submit quarterly deviation (excursion) reports that identify all periods of time when the interlock system was activated and the emissions unit was not shut down. 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.

## **V. Testing Requirements**

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

## V. Testing Requirements (continued)

- 1.a** Emission Limitations:  
3.84 lbs of NOx/hr and 16.82 tons of NOx/yr

Applicable Compliance Method:

The permittee shall demonstrate compliance with the hourly allowable NOx emission limitation above based upon the results of emission testing conducted in accordance with 40 CFR, Part 60, Appendix A, Methods 1 through 4 and 7E.

Compliance with the annual limitation shall be shown as long as compliance with the hourly limitation is maintained (the annual limitation was calculated by multiplying the hourly limitation by 8760, and then dividing by 2000).

- 1.b** Emission Limitations:  
12.20 lbs of CO/hr and 53.44 tons of CO/yr

Applicable Compliance Method:

The permittee shall demonstrate compliance with the hourly allowable CO emission limitation above based upon the results of emission testing conducted in accordance with 40 CFR, Part 60, Appendix A, Methods 1 through 4 and 10.

Compliance with the annual limitation shall be shown as long as compliance with the hourly limitation is maintained (the annual limitation was calculated by multiplying the hourly limitation by 8760, and then dividing by 2000).

- 1.c** Emission Limitations:  
0.20 lb of OC/hr and 0.88 ton of OC/yr

Applicable Compliance Method:

The permittee shall demonstrate compliance with the hourly allowable OC emission limitation above based upon the results of emission testing conducted in accordance with 40 CFR, Part 60, Appendix A, Methods 18, 25, or 25A, as appropriate.

Compliance with the annual limitation shall be shown as long as compliance with the hourly limitation is maintained (the annual limitation was calculated by multiplying the hourly limitation by 8760, and then dividing by 2000).

- 1.d** Emission Limitation:  
95% overall control efficiency for OC and for CO

Applicable Compliance Method:

The permittee shall demonstrate compliance with the overall control efficiency requirement in accordance with the methods and procedures outlined in Section A.V.2 of this permit.

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

- 2.a** The emission testing shall be conducted within 6 months after permit issuance. Further testing may be requested in accordance with Engineering Guide #16.

- 2.b** The emission testing shall be conducted to demonstrate compliance with the hourly allowable mass emission rates for NOx, OC and CO. The emission testing shall also be conducted to demonstrate compliance with the overall control system efficiencies for OC and for CO, and shall include a determination of the thermal incinerator destruction efficiency for CO and OC. [The capture efficiency for the thermal incinerator is assumed to be 100 percent.]

## V. Testing Requirements (continued)

- 2.c** The following test methods shall be employed to demonstrate compliance with the allowable mass emission rates:

NOx: Methods 1 through 4 and 7E, 40 CFR, Part 60, Appendix A

OC: Methods 18, 25 or 25A, as appropriate, of 40 CFR, Part 60, Appendix A

CO: Methods 1 through 4 and 10, 40 CFR, Part 60, Appendix A

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

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

The 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 thermal incinerator destruction efficiency for CO shall be determined by measuring the percent reduction in mass emissions of carbon monoxide between the inlet and outlet of the thermal incinerator.

- 2.d** 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 appropriate Ohio EPA District Office or local air agency.
- 3.** Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. 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 Ohio EPA District Office's or local air agency's refusal to accept the results of the emission test(s).

Personnel from the appropriate Ohio EPA District Office or local air agency 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 emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency within 60 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 appropriate Ohio EPA District Office or local air agency.

## VI. Miscellaneous Requirements

**None**

**B. State Enforceable Section**

**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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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**2. Additional Terms and Conditions**

None

**II. Operational Restrictions**

None

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

None

**IV. Reporting Requirements**

None

**V. Testing Requirements**

None

**VI. Miscellaneous Requirements**

None

### Part III - Terms and Conditions for Emissions Units

**Emissions Unit ID:** MC2 (P074)

**Activity Description:** Mist Collector 2 (MC2) for Engine Machining Operations

#### A. State and Federally Enforceable Section

##### 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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
engine machining operation, equipped with oil mist collection system (MC-2)	OAC rule 3745-31-05(A)(3) (PTI #03-13820)	0.12 lb of particulate emissions (PE)/hr and 0.53 ton of PE/yr  1.71 lbs of organic compounds (OC)/hr and 7.49 tons of OC/yr  Visible PE shall not exceed 10% opacity, as a six-minute average.  See A.I.2.a.  The requirements of this rule also include compliance with the requirements of OAC rule 3745-21-07(G).
	OAC rule 3745-17-07(A)	See A.I.2.b.
	OAC rule 3745-17-11(B)(1)	See A.I.2.b.
	OAC rule 3745-21-07(G)	None, see A.II.1.

##### 2. Additional Terms and Conditions

- 2.a Best available technology (BAT) for this emissions unit has been determined to be a maximum outlet grain loading of 0.0007 gr PE/dscf and 0.01 gr OC/wscf.
- 2.b The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

##### II. Operational Restrictions

1. The use of any photochemically reactive material in this emissions unit, as defined in OAC rule 3745-21-01(C)(5), is prohibited.

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

1. The permittee shall maintain monthly records of the following information for this emissions unit:
  - a. the company identification for each metal working fluid employed in this emissions unit; and
  - b. documentation on whether or not each metal working fluid employed is a photochemically reactive material.
2. The permittee shall perform daily checks, Monday through Friday, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from this emissions unit. 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. whether the emissions are representative of normal operations;
  - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
  - d. the total duration of any visible emission incident; and
  - e. any corrective actions taken to eliminate the visible emissions.
3. Notwithstanding the frequency of the monitoring and record keeping requirements specified in section A.III.2, the permittee may reduce the visual observations from daily readings to weekly readings if the following conditions are met:
  - a. for 1 full quarter the facility's daily visual observations indicate no visible emissions; and
  - b. the permittee continues to comply with all the record keeping and monitoring requirements specified in section A.III.2.

The permittee shall revert to daily readings if any visible emissions are observed. The daily readings shall continue for one full quarter. If visible emissions are observed during this time, the permittee shall continue daily readings until such time that no visible emissions have been observed for a period of three consecutive months.

### IV. Reporting Requirements

1. The permittee shall notify the Director (the Ohio EPA, Northwest District Office) in writing of any monthly record showing the use of any photochemically reactive material in this emissions unit. The notification shall include a copy of such record and shall be sent to the Director (the Ohio EPA, Northwest District Office) within 45 days after the event occurs.
2. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from this emissions unit, and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the Ohio EPA, Northwest District Office) by January 31 and July 31 of each year and shall cover the previous 6-month period.

### V. Testing Requirements

1. Compliance with the emission limitation(s) in section A.I. of the terms and conditions of this permit shall be determined in accordance with the following method(s):

## V. Testing Requirements (continued)

- 1.a** Emission Limitations:  
0.12 lb of PE/hr and 0.53 ton of PE/yr

Applicable Compliance Method:

The permittee may demonstrate compliance with the hourly allowable PE limitation by multiplying the maximum outlet grain loading of 0.0007 gr PE/dscf by the maximum volumetric air flow rate (dscf/minute) and by 60, and then dividing by 7,000.

If required, the permittee shall demonstrate compliance with the hourly allowable PE limitation by testing in accordance with Method 1 - 4 and 5 of 40 CFR, Part 60, Appendix A.

The annual PE limitation was developed by multiplying the hourly PE limitation by 8,760, and then dividing by 2,000. Therefore, provided compliance is shown with the hourly limitation, compliance shall also be shown with the annual limitation.

- 1.b** Emission Limitations:  
1.71 lbs of OC/hr and 7.49 tons of OC/yr

Applicable Compliance Method:

The permittee may demonstrate compliance with the hourly OC emission limitation by multiplying the outlet grain loading of 0.01 gr OC/wscf by the maximum volumetric air flow rate (wscf/minute) and by 60, and then dividing by 7,000.

If required, the permittee shall demonstrate compliance with the hourly OC emission limitation by testing in accordance with Methods 18, 25 or 25A, as appropriate, of 40 CFR, Part 60, Appendix A.

The annual OC emission limitation was developed by multiplying the hourly OC emission limitation by 8,760, and then dividing by 2,000. Therefore, provided compliance is shown with the hourly limitation, compliance shall also be shown with the annual limitation.

- 1.c** Emission Limitation:  
Visible PE shall not exceed 10% opacity, as a six-minute average.

Applicable Compliance Method:

If required, compliance with the visible emission limitation specified above shall be determined in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60.

- 1.d** Emission Limitation:  
0.0007 gr PE/dscf

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with the allowable PE limitation by testing in accordance with Method 1 - 4 and 5 of 40 CFR, Part 60, Appendix A.

The annual PE limitation was developed by multiplying the hourly PE limitation by 8,760, and then dividing by 2,000. Therefore, provided compliance is shown with the hourly limitation, compliance shall also be shown with the annual limitation.

- 1.e** Emission Limitation:  
0.01 gr OC/wscf

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with the allowable OC emission limitation by testing in accordance with Methods 18, 25 or 25A, as appropriate, of 40 CFR, Part 60, Appendix A.

Facility Name: **Ford Motor Co.-Lima**  
Facility ID: **03-02-02-0143**  
Emissions Unit: **MC2 (P074)**

**VI. Miscellaneous Requirements**

**None**

**B. State Enforceable Section**

**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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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**2. Additional Terms and Conditions**

None

**II. Operational Restrictions**

None

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

None

**IV. Reporting Requirements**

None

**V. Testing Requirements**

None

**VI. Miscellaneous Requirements**

None

### Part III - Terms and Conditions for Emissions Units

**Emissions Unit ID:** MC4 (P076)

**Activity Description:** Mist Collector 4 (MC4) for Engine Machining Operations

#### A. State and Federally Enforceable Section

##### 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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
engine machining operation, equipped with oil mist collection system (MC-4)	OAC rule 3745-31-05(A)(3) (PTI #03-13820)	0.18 lb of particulate emissions (PE)/hr and 0.79 ton of PE/yr  2.57 lbs of organic compounds (OC)/hr and 11.26 tons of OC/yr  Visible PE shall not exceed 10% opacity, as a six-minute average.  See A.I.2.a.  The requirements of this rule also include compliance with the requirements of OAC rule 3745-21-07(G).
	OAC rule 3745-17-07(A)	See A.I.2.b.
	OAC rule 3745-17-11(B)(1)	See A.I.2.b.
	OAC rule 3745-21-07(G)	None, see A.II.1.

##### 2. Additional Terms and Conditions

- 2.a Best available technology (BAT) for this emissions unit has been determined to be a maximum outlet grain loading of 0.0007 gr PE/dscf and 0.01 gr OC/wscf.
- 2.b The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

##### II. Operational Restrictions

1. The use of any photochemically reactive material in this emissions unit, as defined in OAC rule 3745-21-01(C)(5), is prohibited.

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

1. The permittee shall maintain monthly records of the following information for this emissions unit:
  - a. the company identification for each metal working fluid employed in this emissions unit; and
  - b. documentation on whether or not each metal working fluid employed is a photochemically reactive material.
2. The permittee shall perform daily checks, Monday through Friday, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from this emissions unit. 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. whether the emissions are representative of normal operations;
  - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
  - d. the total duration of any visible emission incident; and
  - e. any corrective actions taken to eliminate the visible emissions.
3. Notwithstanding the frequency of the monitoring and record keeping requirements specified in section A.III.2, the permittee may reduce the visual observations from daily readings to weekly readings if the following conditions are met:
  - a. for 1 full quarter the facility's daily visual observations indicate no visible emissions; and
  - b. the permittee continues to comply with all the record keeping and monitoring requirements specified in section A.III.2.

The permittee shall revert to daily readings if any visible emissions are observed. The daily readings shall continue for one full quarter. If visible emissions are observed during this time, the permittee shall continue daily readings until such time that no visible emissions have been observed for a period of three consecutive months.

### IV. Reporting Requirements

1. The permittee shall notify the Director (the Ohio EPA, Northwest District Office) in writing of any monthly record showing the use of any photochemically reactive material in this emissions unit. The notification shall include a copy of such record and shall be sent to the Director (the Ohio EPA, Northwest District Office) within 45 days after the event occurs.
2. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from this emissions unit, and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the Ohio EPA, Northwest District Office) by January 31 and July 31 of each year and shall cover the previous 6-month period.

### V. Testing Requirements

1. Compliance with the emission limitation(s) in section A.I. of the terms and conditions of this permit shall be determined in accordance with the following method(s):

## V. Testing Requirements (continued)

**1.a** Emission Limitations:

0.18 lb of PE/hr and 0.79 ton of PE/yr

Applicable Compliance Method:

The permittee may demonstrate compliance with the hourly allowable PE limitation by multiplying the maximum outlet grain loading of 0.0007 gr PE/dscf by the maximum volumetric air flow rate (dscf/minute) and by 60, and then dividing by 7,000.

If required, the permittee shall demonstrate compliance with the hourly allowable PE limitation by testing in accordance with Method 1 - 4 and 5 of 40 CFR, Part 60, Appendix A.

The annual PE limitation was developed by multiplying the hourly PE limitation by 8,760, and then dividing by 2,000. Therefore, provided compliance is shown with the hourly limitation, compliance shall also be shown with the annual limitation.

**1.b** Emission Limitations:

2.57 lbs of OC/hr and 11.26 tons of OC/yr

Applicable Compliance Method:

The permittee may demonstrate compliance with the hourly OC emission limitation by multiplying the outlet grain loading of 0.01 gr OC/wscf by the maximum volumetric air flow rate (wscf/minute) and by 60, and then dividing by 7,000.

If required, the permittee shall demonstrate compliance with the hourly OC emission limitation by testing in accordance with Methods 18, 25 or 25A, as appropriate, of 40 CFR, Part 60, Appendix A.

The annual OC emission limitation was developed by multiplying the hourly OC emission limitation by 8,760, and then dividing by 2,000. Therefore, provided compliance is shown with the hourly limitation, compliance shall also be shown with the annual limitation.

**1.c** Emission Limitation:

Visible PE shall not exceed 10% opacity, as a six-minute average.

Applicable Compliance Method:

If required, compliance with the visible emission limitation specified above shall be determined in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60.

**1.d** Emission Limitation:

0.0007 gr PE/dscf

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with the allowable PE limitation by testing in accordance with Method 1 - 4 and 5 of 40 CFR, Part 60, Appendix A.

The annual PE limitation was developed by multiplying the hourly PE limitation by 8,760, and then dividing by 2,000. Therefore, provided compliance is shown with the hourly limitation, compliance shall also be shown with the annual limitation.

**1.e** Emission Limitation:

0.01 gr OC/wscf

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with the allowable OC emission limitation by testing in accordance with Methods 18, 25 or 25A, as appropriate, of 40 CFR, Part 60, Appendix A.

Facility Name: **Ford Motor Co.-Lima**

Facility ID: **03-02-02-0143**

Emissions Unit: **MC4 (P076)**

## **VI. Miscellaneous Requirements**

**None**

**B. State Enforceable Section**

**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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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**2. Additional Terms and Conditions**

None

**II. Operational Restrictions**

None

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

None

**IV. Reporting Requirements**

None

**V. Testing Requirements**

None

**VI. Miscellaneous Requirements**

None

### Part III - Terms and Conditions for Emissions Units

**Emissions Unit ID:** MC10 (P082)

**Activity Description:** Mist Collector 10 (MC10) for Engine Machining Operations

#### A. State and Federally Enforceable Section

##### 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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
engine machining operation, equipped with oil mist collection system (MC-10)	OAC rule 3745-31-05(A)(3) (PTI #03-13820)	0.20 lb of particulate emissions (PE)/hr and 0.88 ton of PE/yr  1.28 lbs of organic compounds (OC)/hr and 5.61 tons of OC/yr  Visible PE shall not exceed 10% opacity, as a six-minute average.  See A.I.2.a.  The requirements of this rule also include compliance with the requirements of OAC rule 3745-21-07(G).
	OAC rule 3745-17-07(A)	See A.I.2.b.
	OAC rule 3745-17-11(B)(1)	See A.I.2.b.
	OAC rule 3745-21-07(G)	None, see A.II.1.

##### 2. Additional Terms and Conditions

- 2.a Best available technology (BAT) for this emissions unit has been determined to be a maximum outlet grain loading of 0.0007 gr PE/dscf and 0.0044 gr OC/wscf.
- 2.b The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

##### II. Operational Restrictions

1. The use of any photochemically reactive material in this emissions unit, as defined in OAC rule 3745-21-01(C)(5), is prohibited.

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

1. The permittee shall maintain monthly records of the following information for this emissions unit:
  - a. the company identification for each metal working fluid employed in this emissions unit; and
  - b. documentation on whether or not each metal working fluid employed is a photochemically reactive material.
2. The permittee shall perform daily checks, Monday through Friday, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from this emissions unit. 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. whether the emissions are representative of normal operations;
  - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
  - d. the total duration of any visible emission incident; and
  - e. any corrective actions taken to eliminate the visible emissions.
3. Notwithstanding the frequency of the monitoring and record keeping requirements specified in section A.III.2, the permittee may reduce the visual observations from daily readings to weekly readings if the following conditions are met:
  - a. for 1 full quarter the facility's daily visual observations indicate no visible emissions; and
  - b. the permittee continues to comply with all the record keeping and monitoring requirements specified in section A.III.2.

The permittee shall revert to daily readings if any visible emissions are observed. The daily readings shall continue for one full quarter. If visible emissions are observed during this time, the permittee shall continue daily readings until such time that no visible emissions have been observed for a period of three consecutive months.

### IV. Reporting Requirements

1. The permittee shall notify the Director (the Ohio EPA, Northwest District Office) in writing of any monthly record showing the use of any photochemically reactive material in this emissions unit. The notification shall include a copy of such record and shall be sent to the Director (the Ohio EPA, Northwest District Office) within 45 days after the event occurs.
2. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from this emissions unit, and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the Ohio EPA, Northwest District Office) by January 31 and July 31 of each year and shall cover the previous 6-month period.

### V. Testing Requirements

1. Compliance with the emission limitation(s) in section A.I. of the terms and conditions of this permit shall be determined in accordance with the following method(s):

## V. Testing Requirements (continued)

- 1.a** Emission Limitations:  
0.20 lb of PE/hr and 0.88 ton of PE/yr

Applicable Compliance Method:

The permittee may demonstrate compliance with the hourly allowable PE limitation by multiplying the maximum outlet grain loading of 0.0007 gr PE/dscf by the maximum volumetric air flow rate (dscf/minute) and by 60, and then dividing by 7,000.

If required, the permittee shall demonstrate compliance with the hourly allowable PE limitation by testing in accordance with Method 1 - 4 and 5 of 40 CFR, Part 60, Appendix A.

The annual PE limitation was developed by multiplying the hourly PE limitation by 8,760, and then dividing by 2,000. Therefore, provided compliance is shown with the hourly limitation, compliance shall also be shown with the annual limitation.

- 1.b** Emission Limitations:  
1.28 lbs of OC/hr and 5.61 tons of OC/yr

Applicable Compliance Method:

The permittee may demonstrate compliance with the hourly OC emission limitation by multiplying the outlet grain loading of 0.0044 gr OC/wscf by the maximum volumetric air flow rate (wscf/minute) and by 60, and then dividing by 7,000.

If required, the permittee shall demonstrate compliance with the hourly OC emission limitation by testing in accordance with Methods 18, 25 or 25A, as appropriate, of 40 CFR, Part 60, Appendix A.

The annual OC emission limitation was developed by multiplying the hourly OC emission limitation by 8,760, and then dividing by 2,000. Therefore, provided compliance is shown with the hourly limitation, compliance shall also be shown with the annual limitation.

- 1.c** Emission Limitation:  
Visible PE shall not exceed 10% opacity, as a six-minute average.

Applicable Compliance Method:

If required, compliance with the visible emission limitation specified above shall be determined in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60.

- 1.d** Emission Limitation:  
0.0007 gr PE/dscf

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with the allowable PE limitation by testing in accordance with Method 1 - 4 and 5 of 40 CFR, Part 60, Appendix A.

The annual PE limitation was developed by multiplying the hourly PE limitation by 8,760, and then dividing by 2,000. Therefore, provided compliance is shown with the hourly limitation, compliance shall also be shown with the annual limitation.

- 1.e** Emission Limitation:  
0.0044 gr OC/wscf

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with the allowable OC emission limitation by testing in accordance with Methods 18, 25 or 25A, as appropriate, of 40 CFR, Part 60, Appendix A.

Facility Name: **Ford Motor Co.-Lima**  
Facility ID: **03-02-02-0143**  
Emissions Unit: **MC10 (P082)**

**VI. Miscellaneous Requirements**

**None**

**B. State Enforceable Section**

**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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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**2. Additional Terms and Conditions**

None

**II. Operational Restrictions**

None

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

None

**IV. Reporting Requirements**

None

**V. Testing Requirements**

None

**VI. Miscellaneous Requirements**

None

### Part III - Terms and Conditions for Emissions Units

**Emissions Unit ID:** MC15 (P086)

**Activity Description:** Mist Collector 15 (MC15) for Engine Machining Operations

#### A. State and Federally Enforceable Section

##### 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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
engine machining operation, equipped with oil mist collection system (MC-15)	OAC rule 3745-31-05(A)(3) (PTI #03-13820)	0.21 lb of particulate emissions (PE)/hr and 0.92 ton of PE/yr  1.32 lbs of organic compounds (OC)/hr and 5.78 tons of OC/yr  Visible PE shall not exceed 10% opacity, as a six-minute average.  See A.I.2.a.  The requirements of this rule also include compliance with the requirements of OAC rule 3745-21-07(G).
	OAC rule 3745-17-07(A)	See A.I.2.b.
	OAC rule 3745-17-11(B)(1)	See A.I.2.b.
	OAC rule 3745-21-07(G)	None, see A.II.1.

##### 2. Additional Terms and Conditions

- 2.a Best available technology (BAT) for this emissions unit has been determined to be a maximum outlet grain loading of 0.0007 gr PE/dscf and 0.0044 gr OC/wscf.
- 2.b The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

##### II. Operational Restrictions

1. The use of any photochemically reactive material in this emissions unit, as defined in OAC rule 3745-21-01(C)(5), is prohibited.

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

1. The permittee shall maintain monthly records of the following information for this emissions unit:
  - a. the company identification for each metal working fluid employed in this emissions unit; and
  - b. documentation on whether or not each metal working fluid employed is a photochemically reactive material.
2. The permittee shall perform daily checks, Monday through Friday, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from this emissions unit. 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. whether the emissions are representative of normal operations;
  - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
  - d. the total duration of any visible emission incident; and
  - e. any corrective actions taken to eliminate the visible emissions.
3. Notwithstanding the frequency of the monitoring and record keeping requirements specified in section A.III.2, the permittee may reduce the visual observations from daily readings to weekly readings if the following conditions are met:
  - a. for 1 full quarter the facility's daily visual observations indicate no visible emissions; and
  - b. the permittee continues to comply with all the record keeping and monitoring requirements specified in section A.III.2.

The permittee shall revert to daily readings if any visible emissions are observed. The daily readings shall continue for one full quarter. If visible emissions are observed during this time, the permittee shall continue daily readings until such time that no visible emissions have been observed for a period of three consecutive months.

### IV. Reporting Requirements

1. The permittee shall notify the Director (the Ohio EPA, Northwest District Office) in writing of any monthly record showing the use of any photochemically reactive material in this emissions unit. The notification shall include a copy of such record and shall be sent to the Director (the Ohio EPA, Northwest District Office) within 45 days after the event occurs.
2. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from this emissions unit, and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the Ohio EPA, Northwest District Office) by January 31 and July 31 of each year and shall cover the previous 6-month period.

### V. Testing Requirements

1. Compliance with the emission limitation(s) in section A.I. of the terms and conditions of this permit shall be determined in accordance with the following method(s):

## V. Testing Requirements (continued)

- 1.a** Emission Limitations:  
0.21 lb of PE/hr and 0.92 ton of PE/yr

Applicable Compliance Method:

The permittee may demonstrate compliance with the hourly allowable PE limitation by multiplying the maximum outlet grain loading of 0.0007 gr PE/dscf by the maximum volumetric air flow rate (dscf/minute) and by 60, and then dividing by 7,000.

If required, the permittee shall demonstrate compliance with the hourly allowable PE limitation by testing in accordance with Method 1 - 4 and 5 of 40 CFR, Part 60, Appendix A.

The annual PE limitation was developed by multiplying the hourly PE limitation by 8,760, and then dividing by 2,000. Therefore, provided compliance is shown with the hourly limitation, compliance shall also be shown with the annual limitation.

- 1.b** Emission Limitations:  
1.32 lbs of OC/hr and 5.78 tons of OC/yr

Applicable Compliance Method:

The permittee may demonstrate compliance with the hourly OC emission limitation by multiplying the outlet grain loading of 0.0044 gr OC/wscf by the maximum volumetric air flow rate (wscf/minute) and by 60, and then dividing by 7,000.

If required, the permittee shall demonstrate compliance with the hourly OC emission limitation by testing in accordance with Methods 18, 25 or 25A, as appropriate, of 40 CFR, Part 60, Appendix A.

The annual OC emission limitation was developed by multiplying the hourly OC emission limitation by 8,760, and then dividing by 2,000. Therefore, provided compliance is shown with the hourly limitation, compliance shall also be shown with the annual limitation.

- 1.c** Emission Limitation:  
Visible PE shall not exceed 10% opacity, as a six-minute average.

Applicable Compliance Method:

If required, compliance with the visible emission limitation specified above shall be determined in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60.

- 1.d** Emission Limitation:  
0.0007 gr PE/dscf

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with the allowable PE limitation by testing in accordance with Method 1 - 4 and 5 of 40 CFR, Part 60, Appendix A.

The annual PE limitation was developed by multiplying the hourly PE limitation by 8,760, and then dividing by 2,000. Therefore, provided compliance is shown with the hourly limitation, compliance shall also be shown with the annual limitation.

- 1.e** Emission Limitation:  
0.0044 gr OC/wscf

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with the allowable OC emission limitation by testing in accordance with Methods 18, 25 or 25A, as appropriate, of 40 CFR, Part 60, Appendix A.

Facility Name: **Ford Motor Co.-Lima**  
Facility ID: **03-02-02-0143**  
Emissions Unit: **MC15 (P086)**

## **VI. Miscellaneous Requirements**

**None**

**B. State Enforceable Section**

**I. Applicable Emissions Limitations and/or Control Requirements**

- 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 machining operation, equipped with oil mist collection system (MC-15)	none	none

**2. Additional Terms and Conditions**

None

**II. Operational Restrictions**

None

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

- The permit to install for this emissions unit was evaluated based on the actual materials (metal working fluids) and the design parameters of the emissions unit's exhaust system, as specified by the permittee in the permit to install application. The Ohio EPA's "Review of New Sources of Air Toxic Emissions" policy ("Air Toxic Policy") was applied for each pollutant emitted by this emissions unit using data from the permit to install application and the SCREEN 3.0 model (or other Ohio EPA approved model). The predicted 1-hour maximum ground-level concentration from the use of the SCREEN 3.0 model was compared to the Maximum Acceptable Ground-Level Concentration (MAGLC). The following summarizes the results of the modeling for the "worst case" pollutant(s):

Pollutant: petroleum distillates (stoddard solvent)

TLV (mg/m3): 342,300

Maximum Hourly Emission Rate (lbs/hr): 8.11\*

Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 897.4

MAGLC (ug/m3): 13,633.3

\*The hourly emission rate is a combined limit from all of the oil mist collectors that were installed at the Ford Motor Company in 1994 (P079, P085, P086, P087, P088, P089, P090, P091, P092, and P093). This limit reflects the largest annual increase of VOC from the oil mist collectors contained in this PTI.

### III. Monitoring and/or Record Keeping Requirements (continued)

2. Physical changes to or changes in the method of operation of the emissions unit after its installation or modification could affect the parameters used to determine whether or not the "Air Toxic Policy" is satisfied. Consequently, prior to making a change that could impact such parameters, the permittee shall conduct an evaluation to determine that the "Air Toxic Policy" will still be satisfied. If, upon evaluation, the permittee determines that the "Air Toxic Policy" will not be satisfied, the permittee will not make the change. Changes that can affect the parameters used in applying the "Air Toxic Policy" include the following:
  - a. changes in the composition of the materials used (metal working fluids), or the use of new materials, that would result in the emission of a compound with a lower Threshold Limit Value (TLV), as indicated in the most recent version of the handbook entitled "American Conference of Governmental Industrial Hygienists (ACGIH)," than the lowest TLV value previously modeled;
  - b. changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant with a listed TLV that was proposed in the application and modeled; and
  - c. physical changes to the emissions unit or its exhaust parameters (e.g., increased/ decreased exhaust flow, changes in stack height, changes in stack diameter, etc.).

If the permittee determines that the "Air Toxic Policy" will be satisfied for the above changes, the Ohio EPA will not consider the change(s) to be a "modification" under OAC rule 3745-31-01(VV)(1)(a)(ii), and a modification of the existing permit to install will not be required. If the change(s) is (are) defined as a modification under other provisions of the modification definition (other than (VV)(1)(a)(ii)), then the permittee shall obtain a final permit to install prior to the change.

3. The permittee shall collect, record, and retain the following information when it conducts evaluations to determine that the changed emissions unit will still satisfy the "Air Toxic Policy:"
  - a. a description of the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.);
  - b. documentation of its evaluation and determination that the changed emissions unit still satisfies the "Air Toxic Policy"; and
  - c. where computer modeling is performed, a copy of the resulting computer model runs that show the results of the application of the "Air Toxic Policy" for the change.

### IV. Reporting Requirements

None

### V. Testing Requirements

None

### VI. Miscellaneous Requirements

None

### Part III - Terms and Conditions for Emissions Units

**Emissions Unit ID:** MC21 (P091)

**Activity Description:** Mist Collector 21 (MC21) for Engine Machining Operations

#### A. State and Federally Enforceable Section

##### 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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
engine machining operation, equipped with oil mist collection system (MC-21)	OAC rule 3745-31-05(A)(3) (PTI #03-13820)	0.21 lb of particulate emissions (PE)/hr and 0.92 ton of PE/yr  1.32 lbs of organic compounds (OC)/hr and 5.78 tons of OC/yr  Visible PE shall not exceed 10% opacity, as a six-minute average.  See A.I.2.a.  The requirements of this rule also include compliance with the requirements of OAC rule 3745-21-07(G).
	OAC rule 3745-17-07(A)	See A.I.2.b.
	OAC rule 3745-17-11(B)(1)	See A.I.2.b.
	OAC rule 3745-21-07(G)	None, see A.II.1.

##### 2. Additional Terms and Conditions

- 2.a Best available technology (BAT) for this emissions unit has been determined to be a maximum outlet grain loading of 0.0007 gr PE/dscf and 0.0044 gr OC/wscf.
- 2.b The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

##### II. Operational Restrictions

1. The use of any photochemically reactive material in this emissions unit, as defined in OAC rule 3745-21-01(C)(5), is prohibited.

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

1. The permittee shall maintain monthly records of the following information for this emissions unit:
  - a. the company identification for each metal working fluid employed in this emissions unit; and
  - b. documentation on whether or not each metal working fluid employed is a photochemically reactive material.
2. The permittee shall perform daily checks, Monday through Friday, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from this emissions unit. 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. whether the emissions are representative of normal operations;
  - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
  - d. the total duration of any visible emission incident; and
  - e. any corrective actions taken to eliminate the visible emissions.
3. Notwithstanding the frequency of the monitoring and record keeping requirements specified in section A.III.2, the permittee may reduce the visual observations from daily readings to weekly readings if the following conditions are met:
  - a. for 1 full quarter the facility's daily visual observations indicate no visible emissions; and
  - b. the permittee continues to comply with all the record keeping and monitoring requirements specified in section A.III.2.

The permittee shall revert to daily readings if any visible emissions are observed. The daily readings shall continue for one full quarter. If visible emissions are observed during this time, the permittee shall continue daily readings until such time that no visible emissions have been observed for a period of three consecutive months.

### **IV. Reporting Requirements**

1. The permittee shall notify the Director (the Ohio EPA, Northwest District Office) in writing of any monthly record showing the use of any photochemically reactive material in this emissions unit. The notification shall include a copy of such record and shall be sent to the Director (the Ohio EPA, Northwest District Office) within 45 days after the event occurs.
2. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from this emissions unit, and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the Ohio EPA, Northwest District Office) by January 31 and July 31 of each year and shall cover the previous 6-month period.

### **V. Testing Requirements**

1. Compliance with the emission limitation(s) in section A.I. of the terms and conditions of this permit shall be determined in accordance with the following method(s):

## V. Testing Requirements (continued)

- 1.a** Emission Limitations:  
0.21 lb of PE/hr and 0.92 ton of PE/yr

Applicable Compliance Method:

The permittee may demonstrate compliance with the hourly allowable PE limitation by multiplying the maximum outlet grain loading of 0.0007 gr PE/dscf by the maximum volumetric air flow rate (dscf/minute) and by 60, and then dividing by 7,000.

If required, the permittee shall demonstrate compliance with the hourly allowable PE limitation by testing in accordance with Method 1 - 4 and 5 of 40 CFR, Part 60, Appendix A.

The annual PE limitation was developed by multiplying the hourly PE limitation by 8,760, and then dividing by 2,000. Therefore, provided compliance is shown with the hourly limitation, compliance shall also be shown with the annual limitation.

- 1.b** Emission Limitations:  
1.32 lbs of OC/hr and 5.78 tons of OC/yr

Applicable Compliance Method:

The permittee may demonstrate compliance with the hourly OC emission limitation by multiplying the outlet grain loading of 0.0044 gr OC/wscf by the maximum volumetric air flow rate (wscf/minute) and by 60, and then dividing by 7,000.

If required, the permittee shall demonstrate compliance with the hourly OC emission limitation by testing in accordance with Methods 18, 25 or 25A, as appropriate, of 40 CFR, Part 60, Appendix A.

The annual OC emission limitation was developed by multiplying the hourly OC emission limitation by 8,760, and then dividing by 2,000. Therefore, provided compliance is shown with the hourly limitation, compliance shall also be shown with the annual limitation.

- 1.c** Emission Limitation:  
Visible PE shall not exceed 10% opacity, as a six-minute average.

Applicable Compliance Method:

If required, compliance with the visible emission limitation specified above shall be determined in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60.

- 1.d** Emission Limitation:  
0.0007 gr PE/dscf

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with the allowable PE limitation by testing in accordance with Method 1 - 4 and 5 of 40 CFR, Part 60, Appendix A.

The annual PE limitation was developed by multiplying the hourly PE limitation by 8,760, and then dividing by 2,000. Therefore, provided compliance is shown with the hourly limitation, compliance shall also be shown with the annual limitation.

- 1.e** Emission Limitation:  
0.0044 gr OC/wscf

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with the allowable OC emission limitation by testing in accordance with Methods 18, 25 or 25A, as appropriate, of 40 CFR, Part 60, Appendix A.

Facility Name: **Ford Motor Co.-Lima**  
Facility ID: **03-02-02-0143**  
Emissions Unit: **MC21 (P091)**

## **VI. Miscellaneous Requirements**

**None**

**B. State Enforceable Section**

**I. Applicable Emissions Limitations and/or Control Requirements**

- 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 machining operation, equipped with oil mist collection system (MC-21)	none	none

**2. Additional Terms and Conditions**

None

**II. Operational Restrictions**

None

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

- The permit to install for this emissions unit was evaluated based on the actual materials (metal working fluids) and the design parameters of the emissions unit's exhaust system, as specified by the permittee in the permit to install application. The Ohio EPA's "Review of New Sources of Air Toxic Emissions" policy ("Air Toxic Policy") was applied for each pollutant emitted by this emissions unit using data from the permit to install application and the SCREEN 3.0 model (or other Ohio EPA approved model). The predicted 1-hour maximum ground-level concentration from the use of the SCREEN 3.0 model was compared to the Maximum Acceptable Ground-Level Concentration (MAGLC). The following summarizes the results of the modeling for the "worst case" pollutant(s):

Pollutant: petroleum distillates (stoddard solvent)

TLV (mg/m3): 342,300

Maximum Hourly Emission Rate (lbs/hr): 8.11\*

Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 897.4

MAGLC (ug/m3): 13,633.3

\*The hourly emission rate is a combined limit from all of the oil mist collectors that were installed at the Ford Motor Company in 1994 (P079, P085, P086, P087, P088, P089, P090, P091, P092, and P093). This limit reflects the largest annual increase of VOC from the oil mist collectors contained in this PTI.

### III. Monitoring and/or Record Keeping Requirements (continued)

2. Physical changes to or changes in the method of operation of the emissions unit after its installation or modification could affect the parameters used to determine whether or not the "Air Toxic Policy" is satisfied. Consequently, prior to making a change that could impact such parameters, the permittee shall conduct an evaluation to determine that the "Air Toxic Policy" will still be satisfied. If, upon evaluation, the permittee determines that the "Air Toxic Policy" will not be satisfied, the permittee will not make the change. Changes that can affect the parameters used in applying the "Air Toxic Policy" include the following:
  - a. changes in the composition of the materials used (metal working fluids), or the use of new materials, that would result in the emission of a compound with a lower Threshold Limit Value (TLV), as indicated in the most recent version of the handbook entitled "American Conference of Governmental Industrial Hygienists (ACGIH)," than the lowest TLV value previously modeled;
  - b. changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant with a listed TLV that was proposed in the application and modeled; and
  - c. physical changes to the emissions unit or its exhaust parameters (e.g., increased/ decreased exhaust flow, changes in stack height, changes in stack diameter, etc.).

If the permittee determines that the "Air Toxic Policy" will be satisfied for the above changes, the Ohio EPA will not consider the change(s) to be a "modification" under OAC rule 3745-31-01(VV)(1)(a)(ii), and a modification of the existing permit to install will not be required. If the change(s) is (are) defined as a modification under other provisions of the modification definition (other than (VV)(1)(a)(ii)), then the permittee shall obtain a final permit to install prior to the change.

3. The permittee shall collect, record, and retain the following information when it conducts evaluations to determine that the changed emissions unit will still satisfy the "Air Toxic Policy":
  - a. a description of the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.);
  - b. documentation of its evaluation and determination that the changed emissions unit still satisfies the "Air Toxic Policy"; and
  - c. where computer modeling is performed, a copy of the resulting computer model runs that show the results of the application of the "Air Toxic Policy" for the change.

### IV. Reporting Requirements

None

### V. Testing Requirements

None

### VI. Miscellaneous Requirements

None

### Part III - Terms and Conditions for Emissions Units

**Emissions Unit ID:** MC31 (P099)

**Activity Description:** Mist Collector 31 (MC31) for Engine Machining Operations

#### A. State and Federally Enforceable Section

##### 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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
engine machining operation, equipped with oil mist collection system (MC-31)	OAC rule 3745-31-05(A)(3) (PTI #03-13820)	0.24 lb of particulate emissions (PE)/hr and 1.05 tons of PE/yr  1.51 lbs of organic compounds (OC)/hr and 6.61 tons of OC/yr  Visible PE shall not exceed 10% opacity, as a six-minute average.  See A.I.2.a.  The requirements of this rule also include compliance with the requirements of OAC rule 3745-21-07(G).
	OAC rule 3745-17-07(A)	See A.I.2.b.
	OAC rule 3745-17-11(B)(1)	See A.I.2.b.
	OAC rule 3745-21-07(G)	None, see A.II.1.

##### 2. Additional Terms and Conditions

- 2.a Best available technology (BAT) for this emissions unit has been determined to be a maximum outlet grain loading of 0.0007 gr PE/dscf and 0.0044 gr OC/wscf.
- 2.b The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

##### II. Operational Restrictions

1. The use of any photochemically reactive material in this emissions unit, as defined in OAC rule 3745-21-01(C)(5), is prohibited.

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

1. The permittee shall maintain monthly records of the following information for this emissions unit:
  - a. the company identification for each metal working fluid employed in this emissions unit; and
  - b. documentation on whether or not each metal working fluid employed is a photochemically reactive material.
2. The permittee shall perform daily checks, Monday through Friday, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from this emissions unit. 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. whether the emissions are representative of normal operations;
  - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
  - d. the total duration of any visible emission incident; and
  - e. any corrective actions taken to eliminate the visible emissions.
3. Notwithstanding the frequency of the monitoring and record keeping requirements specified in section A.III.2, the permittee may reduce the visual observations from daily readings to weekly readings if the following conditions are met:
  - a. for 1 full quarter the facility's daily visual observations indicate no visible emissions; and
  - b. the permittee continues to comply with all the record keeping and monitoring requirements specified in section A.III.2.

The permittee shall revert to daily readings if any visible emissions are observed. The daily readings shall continue for one full quarter. If visible emissions are observed during this time, the permittee shall continue daily readings until such time that no visible emissions have been observed for a period of three consecutive months.

### **IV. Reporting Requirements**

1. The permittee shall notify the Director (the Ohio EPA, Northwest District Office) in writing of any monthly record showing the use of any photochemically reactive material in this emissions unit. The notification shall include a copy of such record and shall be sent to the Director (the Ohio EPA, Northwest District Office) within 45 days after the event occurs.
2. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from this emissions unit, and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the Ohio EPA, Northwest District Office) by January 31 and July 31 of each year and shall cover the previous 6-month period.

### **V. Testing Requirements**

1. Compliance with the emission limitation(s) in section A.I. of the terms and conditions of this permit shall be determined in accordance with the following method(s):

## V. Testing Requirements (continued)

- 1.a** Emission Limitations:  
0.24 lb of PE/hr and 1.05 tons of PE/yr

Applicable Compliance Method:

The permittee may demonstrate compliance with the hourly allowable PE limitation by multiplying the maximum outlet grain loading of 0.0007 gr PE/dscf by the maximum volumetric air flow rate (dscf/minute) and by 60, and then dividing by 7,000.

If required, the permittee shall demonstrate compliance with the hourly allowable PE limitation by testing in accordance with Method 1 - 4 and 5 of 40 CFR, Part 60, Appendix A.

The annual PE limitation was developed by multiplying the hourly PE limitation by 8,760, and then dividing by 2,000. Therefore, provided compliance is shown with the hourly limitation, compliance shall also be shown with the annual limitation.

- 1.b** Emission Limitations:  
1.51 lbs of OC/hr and 6.61 tons of OC/yr

Applicable Compliance Method:

The permittee may demonstrate compliance with the hourly OC emission limitation by multiplying the outlet grain loading of 0.0044 gr OC/wscf by the maximum volumetric air flow rate (wscf/minute) and by 60, and then dividing by 7,000.

If required, the permittee shall demonstrate compliance with the hourly OC emission limitation by testing in accordance with Methods 18, 25 or 25A, as appropriate, of 40 CFR, Part 60, Appendix A.

The annual OC emission limitation was developed by multiplying the hourly OC emission limitation by 8,760, and then dividing by 2,000. Therefore, provided compliance is shown with the hourly limitation, compliance shall also be shown with the annual limitation.

- 1.c** Emission Limitation:  
Visible PE shall not exceed 10% opacity, as a six-minute average.

Applicable Compliance Method:

If required, compliance with the visible emission limitation specified above shall be determined in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60.

- 1.d** Emission Limitation:  
0.0007 gr PE/dscf

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with the allowable PE limitation by testing in accordance with Method 1 - 4 and 5 of 40 CFR, Part 60, Appendix A.

The annual PE limitation was developed by multiplying the hourly PE limitation by 8,760, and then dividing by 2,000. Therefore, provided compliance is shown with the hourly limitation, compliance shall also be shown with the annual limitation.

- 1.e** Emission Limitation:  
0.0044 gr OC/wscf

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with the allowable OC emission limitation by testing in accordance with Methods 18, 25 or 25A, as appropriate, of 40 CFR, Part 60, Appendix A.

Facility Name: **Ford Motor Co.-Lima**  
Facility ID: **03-02-02-0143**  
Emissions Unit: **MC31 (P099)**

**VI. Miscellaneous Requirements**

**None**

**B. State Enforceable Section**

**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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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**2. Additional Terms and Conditions**

None

**II. Operational Restrictions**

None

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

None

**IV. Reporting Requirements**

None

**V. Testing Requirements**

None

**VI. Miscellaneous Requirements**

None

### Part III - Terms and Conditions for Emissions Units

**Emissions Unit ID:** MC32 (P100)

**Activity Description:** Mist Collector 32 (MC32) for Engine Machining Operations

#### A. State and Federally Enforceable Section

##### 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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
engine machining operation, equipped with oil mist collection system (MC-32)	OAC rule 3745-31-05(A)(3) (PTI #03-13820)	0.19 lb of particulate emissions (PE)/hr and 0.83 ton of PE/yr  1.21 lbs of organic compounds (OC)/hr and 5.30 tons of OC/yr  Visible PE shall not exceed 10% opacity, as a six-minute average.  See A.I.2.a.  The requirements of this rule also include compliance with the requirements of OAC rule 3745-21-07(G).
	OAC rule 3745-17-07(A)	See A.I.2.b.
	OAC rule 3745-17-11(B)(1)	See A.I.2.b.
	OAC rule 3745-21-07(G)	None, see A.II.1.

##### 2. Additional Terms and Conditions

- 2.a Best available technology (BAT) for this emissions unit has been determined to be a maximum outlet grain loading of 0.0007 gr PE/dscf and 0.0044 gr OC/wscf.
- 2.b The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

##### II. Operational Restrictions

1. The use of any photochemically reactive material in this emissions unit, as defined in OAC rule 3745-21-01(C)(5), is prohibited.

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

1. The permittee shall maintain monthly records of the following information for this emissions unit:
  - a. the company identification for each metal working fluid employed in this emissions unit; and
  - b. documentation on whether or not each metal working fluid employed is a photochemically reactive material.
2. The permittee shall perform daily checks, Monday through Friday, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from this emissions unit. 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. whether the emissions are representative of normal operations;
  - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
  - d. the total duration of any visible emission incident; and
  - e. any corrective actions taken to eliminate the visible emissions.
3. Notwithstanding the frequency of the monitoring and record keeping requirements specified in section A.III.2, the permittee may reduce the visual observations from daily readings to weekly readings if the following conditions are met:
  - a. for 1 full quarter the facility's daily visual observations indicate no visible emissions; and
  - b. the permittee continues to comply with all the record keeping and monitoring requirements specified in section A.III.2.

The permittee shall revert to daily readings if any visible emissions are observed. The daily readings shall continue for one full quarter. If visible emissions are observed during this time, the permittee shall continue daily readings until such time that no visible emissions have been observed for a period of three consecutive months.

### IV. Reporting Requirements

1. The permittee shall notify the Director (the Ohio EPA, Northwest District Office) in writing of any monthly record showing the use of any photochemically reactive material in this emissions unit. The notification shall include a copy of such record and shall be sent to the Director (the Ohio EPA, Northwest District Office) within 45 days after the event occurs.
2. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from this emissions unit, and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the Ohio EPA, Northwest District Office) by January 31 and July 31 of each year and shall cover the previous 6-month period.

### V. Testing Requirements

1. Compliance with the emission limitation(s) in section A.I. of the terms and conditions of this permit shall be determined in accordance with the following method(s):

## V. Testing Requirements (continued)

- 1.a** Emission Limitations:  
0.19 lb of PE/hr and 0.8 ton of PE/yr

Applicable Compliance Method:

The permittee may demonstrate compliance with the hourly allowable PE limitation by multiplying the maximum outlet grain loading of 0.0007 gr PE/dscf by the maximum volumetric air flow rate (dscf/minute) and by 60, and then dividing by 7,000.

If required, the permittee shall demonstrate compliance with the hourly allowable PE limitation by testing in accordance with Method 1 - 4 and 5 of 40 CFR, Part 60, Appendix A.

The annual PE limitation was developed by multiplying the hourly PE limitation by 8,760, and then dividing by 2,000. Therefore, provided compliance is shown with the hourly limitation, compliance shall also be shown with the annual limitation.

- 1.b** Emission Limitations:  
1.21 lbs of OC/hr and 5.30 tons of OC/yr

Applicable Compliance Method:

The permittee may demonstrate compliance with the hourly OC emission limitation by multiplying the outlet grain loading of 0.0044 gr OC/wscf by the maximum volumetric air flow rate (wscf/minute) and by 60, and then dividing by 7,000.

If required, the permittee shall demonstrate compliance with the hourly OC emission limitation by testing in accordance with Methods 18, 25 or 25A, as appropriate, of 40 CFR, Part 60, Appendix A.

The annual OC emission limitation was developed by multiplying the hourly OC emission limitation by 8,760, and then dividing by 2,000. Therefore, provided compliance is shown with the hourly limitation, compliance shall also be shown with the annual limitation.

- 1.c** Emission Limitation:  
Visible PE shall not exceed 10% opacity, as a six-minute average.

Applicable Compliance Method:

If required, compliance with the visible emission limitation specified above shall be determined in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60.

- 1.d** Emission Limitation:  
0.0007 gr PE/dscf

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with the allowable PE limitation by testing in accordance with Method 1 - 4 and 5 of 40 CFR, Part 60, Appendix A.

The annual PE limitation was developed by multiplying the hourly PE limitation by 8,760, and then dividing by 2,000. Therefore, provided compliance is shown with the hourly limitation, compliance shall also be shown with the annual limitation.

- 1.e** Emission Limitation:  
0.0044 gr OC/wscf

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with the allowable OC emission limitation by testing in accordance with Methods 18, 25 or 25A, as appropriate, of 40 CFR, Part 60, Appendix A.

Facility Name: **Ford Motor Co.-Lima**  
Facility ID: **03-02-02-0143**  
Emissions Unit: **MC32 (P100)**

**VI. Miscellaneous Requirements**

**None**

**B. State Enforceable Section**

**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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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**2. Additional Terms and Conditions**

None

**II. Operational Restrictions**

None

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

None

**IV. Reporting Requirements**

None

**V. Testing Requirements**

None

**VI. Miscellaneous Requirements**

None

### Part III - Terms and Conditions for Emissions Units

**Emissions Unit ID:** Garage Paint Booth (R004)  
**Activity Description:** Industrial Garage Paint/Steam Booth.

#### A. State and Federally Enforceable Section

##### 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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
maintenance cleaning and painting booth	OAC rule 3745-21-09(U)(2)(e)	coatings usage shall not exceed 10 gallons per day
	OAC rule 3745-17-11(B)(1)	0.551 lb of particulate emissions (PE)/hr
	OAC rule 3745-17-07(A)	Visible PE shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.
	OAC rule 3745-31-05 (PTI #03-4515)	The requirements established pursuant to this rule are equivalent to the requirements of OAC rules 3745-17-11(B)(1), 3745-17-07(A) and 3745-21-09(U)(2).

##### 2. Additional Terms and Conditions

None

##### II. Operational Restrictions

1. The permittee shall operate the dry filtration system whenever this emissions unit is in operation.

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

1. The permittee shall collect and record the following information for each day the coating line is in operation:
  - a. The name and identification number of each coating employed.
  - b. The volume, in gallons, of each coating employed.
  - c. The total volume, in gallons, of all the coatings employed.
2. The permittee shall maintain records that document any time periods when the dry filtration system was not in service when the emissions unit was in operation.

#### IV. Reporting Requirements

1. The permittee shall notify the Director (the Ohio EPA, Northwest District Office) in writing of any daily record showing that the coating line employed more than the applicable maximum daily coatings usage restriction of 10 gallons. The notification shall include a copy of such record and shall be sent to the Director (the Ohio EPA, Northwest District Office) within 45 days after the exceedance occurs.
2. The permittee shall notify the Director (the Ohio EPA, Northwest District Office) in writing of any record showing that the dry filtration system was not in service when the emissions unit was in operation. The notification shall include a copy of such record and shall be sent to the Director (the Ohio EPA, Northwest District Office) within 30 days after the event occurs.

#### V. Testing Requirements

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

- 1.a Emission Limitation:  
coatings usage shall not exceed 10 gallons per day

Applicable Compliance Method:

Compliance shall be based upon the record keeping requirements specified in Section A.III.1. of this permit.

- 1.b Emission Limitation:  
0.551 lb of PE/hr

Applicable Compliance Method:

The permittee may demonstrate compliance with the hourly allowable PE limitation by utilizing the following equation:

$$E = (\text{maximum coating solids usage rate, in lbs/hr}) \times (1 - TE) \times (1 - CE)$$

where:

$$E = \text{PE rate (lbs/hr)}$$

TE = transfer efficiency, which is the ratio of the amount of coating solids deposited on the coated part to the amount of coating solids used (assumed to be 60%, considering 40 CFR 60.453)

CE = control efficiency of the control equipment (assumed to be 90%)

If required, the permittee shall demonstrate compliance with the hourly allowable PE limitation above pursuant to OAC rule 3745-17-03(B)(10).

- 1.c Emission Limitation:  
Visible PE shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with the visible emissions limitation above in accordance with the methods specified in OAC rule 3745-17-03(B)(1).

#### VI. Miscellaneous Requirements

**None**

**B. State Enforceable Section**

**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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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**2. Additional Terms and Conditions**

None

**II. Operational Restrictions**

None

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

None

**IV. Reporting Requirements**

None

**V. Testing Requirements**

None

**VI. Miscellaneous Requirements**

None

### Part III - Terms and Conditions for Emissions Units

**Emissions Unit ID:** Maintenance Paint Booth (R005)

**Activity Description:** Maintenance Paint Spray Booth.

#### A. State and Federally Enforceable Section

##### 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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
maintenance paint booth	OAC rule 3745-21-09(U)(2)(e)  OAC rule 3745-17-11(B)(1)  OAC rule 3745-17-07(A)  OAC rule 3745-31-05 (PTI #03-4515)	coatings usage shall not exceed 10 gallons per day  0.551 lb of particulate emissions (PE)/hr  Visible PE shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.  The requirements established pursuant to this rule are equivalent to the requirements of OAC rules 3745-17-11(B)(1), 3745-17-07(A) and 3745-21-09(U)(2).

##### 2. Additional Terms and Conditions

None

##### II. Operational Restrictions

1. The permittee shall operate the dry filtration system whenever this emissions unit is in operation.

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

1. The permittee shall collect and record the following information for each day the coating line is in operation:
  - a. The name and identification number of each coating employed.
  - b. The volume, in gallons, of each coating employed.
  - c. The total volume, in gallons, of all the coatings employed.
2. The permittee shall maintain records that document any time periods when the dry filtration system was not in service when the emissions unit was in operation.

#### IV. Reporting Requirements

1. The permittee shall notify the Director (the Ohio EPA, Northwest District Office) in writing of any daily record showing that the coating line employed more than the applicable maximum daily coatings usage restriction of 10 gallons. The notification shall include a copy of such record and shall be sent to the Director (the Ohio EPA, Northwest District Office) within 45 days after the exceedance occurs.
2. The permittee shall notify the Director (the Ohio EPA, Northwest District Office) in writing of any record showing that the dry filtration system was not in service when the emissions unit was in operation. The notification shall include a copy of such record and shall be sent to the Director (the Ohio EPA, Northwest District Office) within 30 days after the event occurs.

#### V. Testing Requirements

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

- 1.a Emission Limitation:  
coatings usage shall not exceed 10 gallons per day

Applicable Compliance Method:

Compliance shall be based upon the record keeping requirements specified in Section A.III.1. of this permit.

- 1.b Emission Limitation:  
0.551 lb of PE/hr

Applicable Compliance Method:

The permittee may demonstrate compliance with the hourly allowable PE limitation by utilizing the following equation:

$$E = (\text{maximum coating solids usage rate, in lbs/hr}) \times (1 - TE) \times (1 - CE)$$

where:

$$E = \text{PE rate (lbs/hr)}$$

TE = transfer efficiency, which is the ratio of the amount of coating solids deposited on the coated part to the amount of coating solids used (assumed to be 60%, considering 40 CFR 60.453)

CE = control efficiency of the control equipment (assumed to be 90%)

If required, the permittee shall demonstrate compliance with the hourly allowable PE limitation above pursuant to OAC rule 3745-17-03(B)(10).

- 1.c Emission Limitation:  
Visible PE shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with the visible emissions limitation above in accordance with the methods specified in OAC rule 3745-17-03(B)(1).

#### VI. Miscellaneous Requirements

**None**

**B. State Enforceable Section**

**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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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**2. Additional Terms and Conditions**

None

**II. Operational Restrictions**

None

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

None

**IV. Reporting Requirements**

None

**V. Testing Requirements**

None

**VI. Miscellaneous Requirements**

None

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