



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

10/29/99

CERTIFIED MAIL

RE: Draft Title V Chapter 3745-77 permit

01-80-00-0156
Honda R & D North America Inc.
Sue Borawski
21001 St. Rt. 739
Raymond, OH 43067

Dear Sue Borawski:

You are hereby notified that the Ohio Environmental Protection Agency has prepared the enclosed draft of the Title V permit for the facility referenced above. The purpose of this draft is to solicit public comments. A public notice concerning the draft will appear in the Ohio EPA Weekly Review and the major newspaper in the county where the facility is located. Comments and/or a request for a public hearing from the public and any affected parties will be accepted by Central District Office within 30 days of the date of publication in the newspaper. You will be notified in writing if a public hearing is scheduled.

A decision on processing the Title V permit will be made after consideration of written public comments and oral testimony (if a public hearing is conducted). After the comment period, you will be provided with a Preliminary Proposed Title V permit and an opportunity to comment prior to the Proposed Title V permit submittal to USEPA.

If you have any questions or comments concerning this draft Title V permit, please contact Central District Office.

Very truly yours,

A handwritten signature in black ink that reads "Thomas G. Rigo". The signature is written in a cursive style.

Thomas G. Rigo, Manager
Field Operations and Permit Section
Division of Air Pollution Control

cc: USEPA (electronic)
Jim Orlemann, DAPC Engineering
Michael Ahern, DAPC PMU
Central District Office



Ohio EPA

State of Ohio Environmental Protection Agency

DRAFT TITLE V PERMIT

Issue Date: 10/29/99

Effective Date:

Expiration Date:

The duration of this permit will be five years.

This document constitutes issuance to:

Honda R & D North America Inc.
21001 St. Rt. 739
Raymond, OH 43067

of a Title V permit for Facility ID: 01-80-00-0156

Emissions Unit ID (Company ID)/

Emissions Unit Activity Description:

B001 (10.4 MMBtu/hr Natural Gas Boiler)

10.4 MMBtu/hr boiler for heating hot water throughout all of Building #7.

B005 (12.5 MMBtu/hr Natural Gas Boiler)

12.5 MMBtu/hr boiler for heating hot water for all buildings except Building #7.

B006 (12.5 MMBtu/hr Natural Gas Boiler)

12.5 MMBtu/hr boiler for heating hot water for all buildings except Building #7.

B007 (1,232 hp Emergency Generator)

1,232 hp emergency generator used to provide emergency power to all buildings.

B011 (12.5 MMBtu/hr Natural Gas Boiler)

12.5 MMBtu/hr boiler for heating hot water for all buildings except Building #7.

B012 (High Temp. Dynamometer)

Idling and high speed testing of engines and car components at high temperatures through various road conditions (use of complete cars).

B013 (Performance Dynamometer (Rm. 101))

Engine performance and durability testing.

B014 (Performance Dynamometer (Rm. 103))

Engine performance and durability testing.

B015 (Durability Dynamometer (Rm. 105))

Engine performance and durability testing.

B016 (Transmission Dynamometer (Rm. 107))

Engine performance and durability testing.

B017 (Emissions Dynamometer, Building #5)

Engine emission testing for the EPA (use of complete cars).

B018 (EAC #1, Building #7)

Gasoline Engine Testing: V6 and V4 engines

B019 (Power-Train Simulator Dynamometer, Building #5)

Engine Testing on Rear Differential

B020 (Vehicle Test Dynamometer, Building #5)

Engine emissions testing using the entire car.

B021 (Hot/Cold Chamber Dynamometer)

Complete car testing in hot/cold chamber.

G001 (Gasoline Tanks/Dispensing Facility)

Gasoline received from tank trucks, stored, and dispensed to motor vehicles.

K001 (Prep. Booth & Air Makeup Heater)

Surface coating of miscellaneous metal and non-metal parts.

K002 (Paint/Surface Coat Booth & Air Makeup Heater)

Surface coating of miscellaneous metal and non-metal parts.

P005 (Prep. Oven)

Baking of miscellaneous auto body parts in a 1.65 MMBtu/hr natural gas fired oven.

P006 (Paint/Surface Coat Oven)

Baking of miscellaneous auto body parts in a 1.65 MMBtu/hr natural gas fired oven.

Z028 (Tank 1 (T-1) located at tank farm #5A

)

Tank 1 gasoline routed to dynamometer rooms in Bldg. #5, Rm. 101, 103, 105, 107 for engine testing.

Z029 (Tank 2 (T-2) located at tank farm #5A)

Tank 2 gasoline routed to dynamometer rooms in Bldg. #5, Rm. 101, 103, 105, 107 for engine testing.

Z030 (Tank 3 (T-3) located at tank farm #5A)

Tank 3 gasoline routed to dynamometer rooms in Bldg. #5, Rm. 101, 103, 105, 107 for engine testing.

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 3745-77-04(A) 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:

Central District Office
3232 Alum Creek Drive
PO Box 1049
Columbus, OH 43216-1049
(614) 728-3778

OHIO ENVIRONMENTAL PROTECTION AGENCY

Christopher Jones
Director

PART I - GENERAL TERMS AND CONDITIONS

A. State and Federally Enforceable Section

1. Monitoring and Related Recordkeeping 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.
- 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.
- c. Except as may otherwise be provided in the terms and conditions for a specific emissions unit, the permittee shall submit required reports in the following manner:
 - i. Reports of any required monitoring and/or recordkeeping of federally enforceable information shall be submitted to the appropriate Ohio EPA District Office or local air agency.
 - ii. Quarterly written reports of (i) any deviations from federally enforceable emission limitations, operational restrictions, and control device operating parameter limitations, excluding deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06, that have been detected by the testing, monitoring and recordkeeping requirements specified in this permit, (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. These quarterly written reports shall satisfy the requirements of OAC rule 3745-77-07(A)(3)(c)(i) and (ii) pertaining to the submission of monitoring reports every six months and OAC rule 3745-77-07(A)(3)(c)(iii) pertaining to the prompt reporting of all deviations except malfunctions, which shall be reported in accordance with OAC rule 3745-15-06. 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. (These quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06.) See B.6 below if no deviations occurred during the quarter.
 - iii. Written reports, which identify any deviations from the federally enforceable monitoring, recordkeeping, 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. 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, recordkeeping, 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.
 - 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 are true, accurate, and complete.

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, i.e., upset, 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. (The definition of an upset condition shall be the same as that used in OAC rule 3745-15-06(B)(1) for a malfunction.) The verbal and written reports submitted pursuant to OAC rule 3745-15-06 shall satisfy the requirements of OAC rule 3745-77-07(A)(3)(c)(iii) pertaining to the prompt reporting of deviations caused by malfunctions or upsets.

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 emission unit(s) that is (are) served by such control system(s).

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 CFR 68.215(a), the permittee shall submit either of the following:

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

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.

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.

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. 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.

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.

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.

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.

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 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.

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.

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 appropriate Ohio EPA District Office or local air agency and to the Administrator of U.S. EPA in the following manner 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.

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.

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).

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.

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, 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; and
- 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 further clarification, the permittee can refer to Engineering Guide #63 that is available in their STARSHIP software package.)

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.

18. Title VI Provisions

If applicable, the permittee shall comply with the standards for recycling and reducing emissions of ozone depleting substances pursuant to 40 CFR Part 82, Subpart F, except as provided for motor vehicle air conditioners in Subpart B of 40 CFR Part 82:

- a. Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices specified in 40 CFR 82.156.
- b. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment specified in 40 CFR 82.158.
- c. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161.

B. State Only Enforceable Section

1. 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.

2. Reporting Requirements Related to Monitoring and Recordkeeping Requirements

The permittee shall submit required reports in the following manner:

- a. Reports of any required monitoring and/or recordkeeping of state-only enforceable 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 (a) any deviations (excursions) from state-only required emission limitations, operational restrictions, and control device operating parameter limitations that have been detected by the testing, monitoring, and recordkeeping requirements specified in this permit, (b) the probable cause of such deviations, and (c) 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. 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.)

3. 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).

4. 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.

5. 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.

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 emissions units are located at this facility:

- Z007 car idling emissions (tail-pipe exhaust)
- Z020 motorcycle dynamometer
- Z031 paved roadways and parking lots
- B010 work area heater
- Z011 laboratory hoods
- Z015 sandblaster
- Z021 cold cleaner in buiding #4A
- Z022 cold cleaner in building #4A
- Z023 cold cleaner in building #5
- Z024 cold cleaner in building #5
- Z025 cold cleaner in building #5
- Z026 cold cleaner in building #4
- Z027 cold cleaner in building #4A
- B008 emergency fire pump generator, 121 horsepower
- Z010 miscellaneous welding
- Z012 test paint spray booth and oven
- Z013 paint mix room
- Z014 miscellaneous material use
- Z016 small parts oven

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

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: 10.4 MMBtu/hr Natural Gas Boiler (B001)

Activity Description: 10.4 MMBtu/hr boiler for heating hot water throughout all of Building #7.

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>
10.4 mm Btu/hr natural gas-fired boiler	OAC rule 3745-17-10(B)(1)	Particulate emissions shall not exceed 0.020 pound per million Btu of actual heat input.
	OAC rule 3745-17-07(A)	Visible particulate emissions from any stack shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.
	40 CFR 60, Subpart Dc	See A.III.1 below.

2. Additional Terms and Conditions

- 2.a Since natural gas is the only fuel fired in this emissions unit, OAC Chapter 3745-18 is not applicable. Hence, there is no sulfur dioxide emission limitation for this emissions unit.

II. Operational Restrictions

- The permittee shall burn only natural gas in this emissions unit.

III. Monitoring and/or Record Keeping Requirements

- Pursuant to 40 CFR Part 60, Subpart Dc, the permittee shall record and maintain records of the amount of natural gas combusted during each day.
- For each day during which the permittee burns a fuel other than natural gas, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

IV. Reporting Requirements

- The permittee shall submit deviation (excursion) reports that identify each day during which records are not maintained on the amount of natural gas combusted in this emissions unit. The notification shall be sent to the Ohio EPA, Central District Office as required in the General Terms and Conditions of this permit.
- The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.

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:

Emission Limitation:

Visible particulate emissions shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.

Applicable Compliance Method:

If required, compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).

2. Emission Limitation:
Particulate emissions shall not exceed 0.020 lb/mmBtu actual heat input.

Applicable Compliance Method:

Compliance with this emission limitation shall be demonstrated by multiplying the maximum hourly gas burning capacity of the emissions unit (10,400 ft³/hr) by the emission factor from "Compilation of Air Pollutant Emission Factors", Table 1.4-2 (7/98) for natural gas (1.9 lbs particulate/mmft³), and dividing by the maximum hourly heat input capacity of the emissions unit (10.4 mmBtu/hr). If required, the permittee shall demonstrate compliance with this emission limitation in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5 and the procedures specified in OAC rule 3745-17-03(B)(9).

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>
---	---	--

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: 12.5 MMBtu/hr Natural Gas Boiler (B005)

Activity Description: 12.5 MMBtu/hr boiler for heating hot water for all buildings except Building #7.

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>
12.5 mm Btu/hr natural gas-fired boiler	OAC rule 3745-17-10(B)(1)	Particulate emissions shall not exceed 0.020 pound per million Btu of actual heat input.
	OAC rule 3745-17-07(A)	Visible particulate emissions from any stack shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.
	40 CFR 60 Subpart Dc	See A.III.1 below.

2. Additional Terms and Conditions

- 2.a Since natural gas is the only fuel fired in this emissions unit, OAC Chapter 3745-18 is not applicable. Hence, there is no sulfur dioxide emission limitation for this emissions unit.

II. Operational Restrictions

- The permittee shall burn only natural gas in this emissions unit.

III. Monitoring and/or Record Keeping Requirements

- Pursuant to 40 CFR Part 60, Subpart Dc, the permittee shall record and maintain records of the amount of natural gas combusted during each day.
- For each day during which the permittee burns a fuel other than natural gas, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

IV. Reporting Requirements

- The permittee shall submit deviation (excursion) reports that identify each day during which records are not maintained on the amount of natural gas combusted in this emissions unit. The notification shall be sent to the Ohio EPA, Central District Office as required in the General Terms and Conditions of this permit.
- The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.

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:

Emission Limitation:

Visible particulate emissions shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.

Applicable Compliance Method:

If required, compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).

2. Emission Limitation:
Particulate emissions shall not exceed 0.020 lb/mmBtu actual heat input.

Applicable Compliance Method:

Compliance with this emission limitation shall be demonstrated by multiplying the maximum hourly gas burning capacity of the emissions unit (12,500 ft³/hr) by the emission factor from "Compilation of Air Pollutant Emission Factors", Table 1.4-2 (7/98) for natural gas (1.9 lbs particulate/mmft³), and dividing by the maximum hourly heat input capacity of the emissions unit (12.5 mmBtu/hr). If required, the permittee shall demonstrate compliance with this emission limitation in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5 and the procedures specified in OAC rule 3745-17-03(B)(9).

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>
---	---	--

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: 12.5 MMBtu/hr Natural Gas Boiler (B006)

Activity Description: 12.5 MMBtu/hr boiler for heating hot water for all buildings except Building #7.

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>
12.5 mm Btu/hr natural gas-fired boiler	OAC rule 3745-17-10(B)(1)	Particulate emissions shall not exceed 0.020 pound per million Btu of actual heat input.
	OAC rule 3745-17-07(A)	Visible particulate emissions from any stack shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.
	40 CFR 60 Subpart Dc	See A.III.1 below.

2. Additional Terms and Conditions

- 2.a Since natural gas is the only fuel fired in this emissions unit, OAC Chapter 3745-18 is not applicable. Hence, there is no sulfur dioxide emission limitation for this emissions unit.

II. Operational Restrictions

- The permittee shall burn only natural gas in this emissions unit.

III. Monitoring and/or Record Keeping Requirements

- Pursuant to 40 CFR Part 60, Subpart Dc, the permittee shall record and maintain records of the amount of natural gas combusted during each day.
- For each day during which the permittee burns a fuel other than natural gas, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

IV. Reporting Requirements

- The permittee shall submit deviation (excursion) reports that identify each day during which records are not maintained on the amount of natural gas combusted in this emissions unit. The notification shall be sent to the Ohio EPA, Central District Office as required in the General Terms and Conditions of this permit.
- The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.

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:

Emission Limitation:

Visible particulate emissions shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.

Applicable Compliance Method:

If required, compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).

2. Emission Limitation:
Particulate emissions shall not exceed 0.020 lb/mmBtu actual heat input.

Applicable Compliance Method:

Compliance with this emission limitation shall be demonstrated by multiplying the maximum hourly gas burning capacity of the emissions unit (12,500 ft³/hr) by the emission factor from "Compilation of Air Pollutant Emission Factors", Table 1.4-2 (7/98) for natural gas (1.9 lbs particulate/mmft³), and dividing by the maximum hourly heat input capacity of the emissions unit (12.5 mmBtu/hr). If required, the permittee shall demonstrate compliance with this emission limitation in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5 and the procedures specified in OAC rule 3745-17-03(B)(9).

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>
---	---	--

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: 1,232 hp Emergency Generator (B007)

Activity Description: 1,232 hp emergency generator used to provide emergency power to all buildings.

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>
1,232 horsepower (8.62 mmBtu/hour) diesel-fired emergency generator	OAC rule 3745-17-11(B)(5)(b)	Particulate emissions shall not exceed 0.062 pound per million Btu of actual heat input. (See A.I.2.a below.)
	OAC rule 3745-17-07(A)	Visible particulate emissions from any stack shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.
	OAC rule 3745-18-06(G)	Sulfur dioxide emissions shall not exceed 0.5 pound per million Btu of actual heat input.

2. Additional Terms and Conditions

- The emission limitation specified in this rule citation has been revised based upon a change in the applicable emission factor contained in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors. The revised rule was adopted by the Director of Ohio EPA in December, 1997. The USEPA has agreed to consider this revised rule as federally enforceable during the time from the effective date of this permit to the effective date of USEPA approval of this limitation as a revision to the Ohio SIP for particulate matter.

II. Operational Restrictions

- The permittee shall burn only diesel fuel oil in this emissions unit.
- The quality of the diesel fuel oil, burned in this emissions unit, shall have a sulfur content which is sufficient to comply with the allowable sulfur dioxide emission limitation of 0.5 pound of sulfur dioxide/mmBtu actual heat input, on an "as received" basis.

III. Monitoring and/or Record Keeping Requirements

- For each shipment of oil received for burning in this emissions unit, the permittee shall maintain records of the total quantity of oil received, the permittee's or oil supplier's analyses for sulfur content and heat content, and the calculated sulfur dioxide emission rate in lb/mmBtu.

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

2. The permittee shall collect or require the oil supplier to collect a representative grab sample for each shipment of oil that is received for burning in this emissions unit. The permittee shall perform or require the supplier to perform the analyses for sulfur content and heat content in accordance with the following ASTM methods: ASTM method D4294, ASTM method D240, or ASTM method 6010 for sulfur content; and ASTM method D240 for heat content. Alternative, equivalent methods may be used upon written approval by the Ohio EPA Central District Office.
3. For each day during which the permittee burns a fuel other than diesel fuel oil, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify any record showing an exceedance of the 0.5 lb of sulfur dioxide/mm Btu limitation. The notification shall include a copy of any such record and shall be sent to the Ohio EPA, Central District Office as required in Section A.1.c of the General Terms and Conditions of this permit.
2. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than diesel fuel oil was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.

V. Testing Requirements

1. Compliance with the emission limitations specified in Section A.I of this permit shall be determined in accordance with the following methods:
2. Emission Limitation:
Particulate emissions shall not exceed 0.062 pound per million Btu of actual heat input.

Applicable Compliance Method:

Compliance with this emission limitation shall be demonstrated by multiplying the maximum fuel oil burning capacity of the emissions unit (63 gal/hr) by the maximum Btu value of diesel fuel (137,000 Btu/gal) and by the emission factor from "Compilation of Air Pollutant Emission Factors", Table 3.4-2 (10/96) for diesel (0.062 lb PM/mm Btu), and dividing by the maximum hourly heat input capacity of the emissions unit (8.62 mmBtu/hr). If required, the permittee shall demonstrate compliance with this emission limitation in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5 and the procedures specified in OAC rule 3745-17-03(B)(10).

3. Emission Limitation:
Visible particulate emissions shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.

Applicable Compliance Method:

If required, compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).

4. Emission Limitation:
Sulfur dioxide emissions shall not exceed 0.5 pound per million Btu of actual heat input.

Applicable Compliance Method:

Compliance shall be based upon the records required pursuant to Section A.III.2. The sulfur dioxide emission rate shall be calculated in accordance with the formula specified in OAC rule 3745-18-04(F)(2) as follows:

$$ER = (1 \times 10E6) / H \times D \times S \times 1.974, \text{ where:}$$

ER = emission rate in pounds of sulfur dioxide per mm Btu;
H = the heat content of the fuel in Btu per gallon;
D = the density of the fuel in pounds per gallon; and
S = the decimal fraction of sulfur in the fuel.

Facility Name: **Honda R&D Americas, Inc.**
Facility ID: **01-80-00-0156**
Emissions Unit: **1,232 hp Emergency Generator (B007)**

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>
1,232 horsepower (8.62 mmBtu/hour) diesel-fired emergency generator	OAC rule 3745-31-05(A)(3) PTI #01-4470	See A.II.1 through A.II.3 below.

2. Additional Terms and Conditions

None

II. Operational Restrictions

1. The heat content of the diesel fuel oil burned in this emissions unit shall be greater than 130,000 Btu/gallon.
2. Maximum diesel fuel oil usage shall not exceed 12,000 gallons per rolling, 12-month period for this emissions unit and its associated fire pump.
3. The sulfur content of the diesel fuel oil shall not exceed 0.5% sulfur, by weight.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain monthly records of the following:
 - a. the amount of diesel fuel oil burned in this emissions unit; and
 - b. the rolling, 12-month summation of the amount of diesel fuel oil burned in this emissions unit and its associated emergency fire pump.

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify the following:
 - a. any monthly record showing an exceedance of the rolling, 12-month diesel fuel oil usage limitation (12,000 gallons per rolling, 12-month period) for this emissions unit and its associated fire pump; and
 - b. any record showing an exceedance of 0.5% diesel fuel oil sulfur content limitation.

The deviation reports shall be submitted in accordance with Section A.1.c of the General Terms and Conditions of this permit.

2. The permittee shall submit annual reports that specify the total diesel fuel oil usage in this emissions unit for the previous calendar year. The annual fuel usage report shall be submitted by January 31 of each year.

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: 12.5 MMBtu/hr Natural Gas Boiler (B011)

Activity Description: 12.5 MMBtu/hr boiler for heating hot water for all buildings except Building #7.

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>
12.5 mm Btu/hr natural gas-fired boiler	OAC rule 3745-17-10(B)(1)	Particulate emissions shall not exceed 0.020 pound per million Btu of actual heat input.
	OAC rule 3745-17-07(A)	Visible particulate emissions from any stack shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.
	40 CFR 60 Subpart Dc	See A.III.1 below.

2. Additional Terms and Conditions

- 2.a Since natural gas is the only fuel fired in this emissions unit, OAC Chapter 3745-18 is not applicable. Hence, there is no sulfur dioxide emission limitation for this emissions unit.

II. Operational Restrictions

- The permittee shall burn only natural gas in this emissions unit.

III. Monitoring and/or Record Keeping Requirements

- Pursuant to 40 CFR Part 60, Subpart Dc, the permittee shall record and maintain records of the amount of natural gas combusted during each day.
- For each day during which the permittee burns a fuel other than natural gas, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

IV. Reporting Requirements

- The permittee shall submit deviation (excursion) reports that identify each day during which records are not maintained on the amount of natural gas combusted in this emissions unit. The notification shall be sent to the Ohio EPA, Central District Office as required in the General Terms and Conditions of this permit.
- The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.

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:

Emission Limitation:

Visible particulate emissions shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.

Applicable Compliance Method:

If required, compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).

2. Emission Limitation:
Particulate emissions shall not exceed 0.020 lb/mmBtu actual heat input.

Applicable Compliance Method:

Compliance with this emission limitation shall be demonstrated by multiplying the maximum hourly gas burning capacity of the emissions unit (12,500 ft³/hr) by the emission factor from "Compilation of Air Pollutant Emission Factors", Table 1.4-2 (7/98) for natural gas (1.9 lbs particulate/mmft³), and dividing by the maximum hourly heat input capacity of the emissions unit (12.5 mmBtu/hr). If required, the permittee shall demonstrate compliance with this emission limitation in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5 and the procedures specified in OAC rule 3745-17-03(B)(9).

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>
---	---	--

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: High Temp. Dynamometer (B012)

Activity Description: Idling and high speed testing of engines and car components at high temperatures through various road conditions (use of complete cars).

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>
high temperature dynamometer in building #7	OAC rule 3745-17-07(A)	None, see A.I.2.b below.
	OAC rule 3745-17-11(B)(1)	None, see A.I.2.a below.
	OAC rule 3745-21-08(B)	None, see A.I.2.c below.
	OAC rule 3745-23-06(B)	None, see A.I.2.c below.
	OAC rule 3745-18-06	None, exempt pursuant to OAC rule 3745-18-06(B).

2. Additional Terms and Conditions

- 2.a The uncontrolled mass rate of particulate emissions from this emissions unit is less than 10 pounds per hour. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(a)(ii), Figure II of OAC rule 3745-17-11 does not apply. In addition, Table I of OAC rule 3745-17-11 does not apply because the process weight, as defined in OAC rule 3745-17-01(B)(14), is equal to zero.
- 2.b 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.c The permittee has satisfied the "best available control techniques and operating practices" and "latest available control techniques and operating practices" required pursuant to OAC rules 3745-21-08 (Control of carbon monoxide emissions from stationary sources) and 3745-23-06 (Control of nitrogen oxides emissions from stationary sources), respectively by committing to comply with the best available technology requirements established in Permit to Install 01-6489.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

Facility Name: **Honda R&D Americas, Inc.**
Facility ID: **01-80-00-0156**
Emissions Unit: **High Temp. Dynamometer (B012)**

V. Testing Requirements

None

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>
high temperature dynamometer in building #7	OAC rule 3745-31-05 PTI #01-6489	<p>Hourly emissions from the combustion of gasoline in this emissions unit shall not exceed the following limitations:</p> <p>0.0647 lb of particulate emissions/hr 0.0531 lb of sulfur dioxide/hr 1.02 lbs of nitrogen oxides/hr 1.48 lbs of organic compounds/hr 2.0 lbs of carbon monoxide/hr</p> <p>Annual emissions from the combustion of gasoline in this emissions unit shall not exceed the following limitations:</p> <p>0.283 ton particulate emissions/yr 0.232 ton of sulfur dioxide/yr 4.46 tons of nitrogen oxides/yr 6.48 tons of organic compounds/yr 8.76 tons of carbon monoxide/yr</p> <p>Visible particulate emissions shall not exceed 20% opacity as a 6-minute average.</p>

2. Additional Terms and Conditions

- 2.a The hourly and annual emission limitations specified in Section B.I.1 reflect the emissions unit's potential to emit for these pollutants; therefore, there are no additional monitoring, record keeping or reporting requirements associated with these emission limitations.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving 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.

IV. Reporting Requirements

1. The permittee shall submit semiannual written reports which (a) identify all days during which any abnormal visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the abnormal visible particulate emissions. These reports shall be submitted to the Ohio EPA Central District Office by January 31 and July 31 of each year and shall cover the previous 6-month period.
2. The permittee shall submit annual reports which specify the total emissions of particulates, sulfur dioxide, nitrogen oxides, organic compounds, and carbon monoxide from this emissions unit for the previous calendar year. The reports shall be submitted by April 15 of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual Fee Emission Report.

V. Testing Requirements

1. Compliance with the emission limitations specified in Section B.I.1 of this permit shall be determined in accordance with the following methods:
2. Emission Limitations:
Carbon monoxide emissions shall not exceed 2.0 lbs/hr and 8.76 tons/yr.

Applicable Compliance Method:

The maximum uncontrolled hourly carbon monoxide emissions were established using an emission factor of 0.2 pound of carbon monoxide per gallon of gasoline and a maximum gasoline usage of 10 gallons per hour (this emission factor was derived from the highest dynamometer testing results, from testing conducted on 8/20/97 on an uncontrolled V6 engine at maximum operating conditions on dynamometer B018). The annual carbon monoxide emission limitation was established by multiplying the worst case hourly emission rate (2.0 lbs/hr) by 8760 hours per year.

If required, the permittee shall demonstrate compliance with the hourly carbon monoxide emission limitation in accordance with 40 CFR Part 60, Appendix A, Method 10.

V. Testing Requirements (continued)

3. Emission Limitations:
Organic compound emissions shall not exceed 1.48 lbs/hr and 6.48 tons/yr.
Nitrogen oxides emissions shall not exceed 1.02 lbs/hr and 4.46 tons/yr.
Particulate emissions shall not exceed 0.0647 lb/hr and 0.283 ton/yr.
Sulfur dioxide emissions shall not exceed 0.0531 lb/hr and 0.232 ton/yr.

Applicable Compliance Method:

Compliance with the organic compound, nitrogen oxides, particulates, and sulfur dioxide emission limitations for this emissions unit shall be determined by multiplying the maximum hourly gasoline usage rate for this emissions unit, 10 gallons per hour and 87,600 gallons per year, by emission factors from U.S. EPA's Factor Information Retrieval Data System (FIRE 6.01) for criteria air pollutants, using (SCC) number 20400401 for reciprocation gasoline engines. The emission factors for particulates, sulfur dioxide, nitrogen oxides, and organic compounds are specified below.

6.47 lbs of particulate emissions/1000 gallons of gasoline burned
5.31 lbs of sulfur dioxide/1000 gallons of gasoline burned
102 lbs of nitrogen oxides/1000 gallons of gasoline burned
148 lbs of organic compounds/1000 gallons of gasoline burned

If required, the permittee shall demonstrate compliance with these emission limitations in accordance with the appropriate approved method(s) found in 40 CFR Part 60, Appendix A.

4. Emission Limitation:
Visible particulate emissions shall not exceed 20% opacity as a 6-minute average.

Applicable Compliance Method:

If required, compliance with this emission limitation shall be determined through visible emissions observation performed in accordance with 40 CFR Part 60, Appendix A, Method 9.

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Performance Dynamometer (Rm. 101) (B013)
Activity Description: Engine performance and durability testing.

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>
performance dynamometer in building #5 (room 101)	OAC rule 3745-17-07(A)	Visible particulate emissions shall not exceed 20% opacity as a 6-minute average except as provided by rule.
	OAC rule 3745-17-11(B)(5)	Particulate emissions shall not exceed 0.310 pound per million Btu of actual heat input. (See A.I.2.a and A.I.2.b below.)
	OAC rule 3745-23-06(B)	See A.I.2.c below.
	OAC rule 3745-21-08(B)	See A.I.2.c below.
	OAC rule 3745-18-06	None, exempt pursuant to OAC rule 3745-18-06(B).

2. Additional Terms and Conditions

- 2.a** The internal combustion engines used in association with this emissions unit have a rated power of less than or equal to 600 horsepower and are not used to, or intended to, propel any vehicle.
- 2.b** The emission limitation specified in this rule citation has been revised based upon a change in the applicable emission factor contained in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors. The revised rule was adopted by the Director of Ohio EPA in December, 1997. The USEPA has agreed to consider this revised rule as federally enforceable during the time from the effective date of this permit to the effective date of USEPA approval of this limitation as a revision to the Ohio SIP for particulate matter.
- 2.c** The permittee has satisfied the "best available control techniques and operating practices" and "latest available control techniques and operating practices" required pursuant to OAC rules 3745-21-08 (Control of carbon monoxide emissions from stationary sources) and 3745-23-06 (Control of nitrogen oxides emissions from stationary sources), respectively by committing to comply with the best available technology requirements established in Permit to Install 01-6771.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving 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.

IV. Reporting Requirements

1. The permittee shall submit semiannual written reports which (a) identify all days during which any abnormal visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the abnormal visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) 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 limitations specified in Section A.I of this permit shall be determined in accordance with the following methods:

Emission Limitation:

Visible particulate emissions shall not exceed 20% opacity as a 6-minute average, except as provided by rule

Applicable Compliance Method:

If required, compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).

2. Emission Limitation:

Particulate emissions shall not exceed 0.310 pound per million Btu of actual heat input.

Applicable Compliance Method:

Compliance with this emission limitation shall be demonstrated by dividing the emission factor from U.S. EPA's Factor Information Retrieval Data System (FIRE 6.01) for reciprocation gasoline engines (0.00647 lb PM/gal) by the maximum Btu value of gasoline (117,000 Btu/gal) and multiplying this by one million. If required, the permittee shall demonstrate compliance with this emission limitation in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5 and the procedures specified in OAC rule 3745-17-03(B)(10).

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>
performance dynamometer in building #5 (room 101)	OAC rule 3745-31-05 PTI #01-6771	<p>Hourly emissions from the combustion of gasoline in this emissions unit shall not exceed the following limitations:</p> <p>0.0647 lb of particulate emissions/hr 0.0531 lb of sulfur dioxide/hr 1.02 lbs of nitrogen oxides/hr 1.48 lbs of organic compounds/hr 0.79 lb of carbon monoxide/hr</p> <p>Annual emissions from the combustion of gasoline in this emissions unit shall not exceed the following limitations:</p> <p>0.283 ton of particulate emissions/yr 0.232 ton of sulfur dioxide/yr 4.46 tons of nitrogen oxides/yr 6.48 tons of organic compounds/yr 3.45 ton of carbon monoxide/yr</p>

2. Additional Terms and Conditions

- 2.a The particulate, nitrogen oxides, sulfur dioxide, and organic compound emission limitations specified in Section B.1.1 reflect the emissions unit's potential to emit for these pollutants; therefore, there are no additional monitoring, record keeping or reporting requirements associated with these emission limitations.

II. Operational Restrictions

1. This emissions unit shall be vented to a thermal incinerator which shall reduce carbon monoxide emissions to not more than 0.79 pound per hour.
2. The average combustion temperature within the thermal incinerator, 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 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 installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, with any modifications deemed necessary by the permittee.

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

2. The permittee shall collect and record the following information each day for the control equipment:
 - a. a log of the downtime for the capture (collection) system, control device, and monitoring equipment, when the associated emissions unit was in operation; and
 - b. all 3-hour blocks of time during which the average combustion temperatures within the thermal incinerator, 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 that the emissions unit was in compliance.

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports which identify all 3-hour blocks of time during which the average combustion temperature within the thermal incinerator did not comply with the temperature limitation specified above. These reports shall be submitted as required in the General Terms and Conditions, Part I, Section B.2.
2. The permittee shall submit annual reports which specify the total emissions of particulates, sulfur dioxide, nitrogen oxides, organic compounds, and carbon monoxide from this emissions unit for the previous calendar year. The reports shall be submitted by April 15 of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual Fee Emission Report.

V. Testing Requirements

1. Compliance with the emission limitations specified in Section B.I.1 of this permit shall be determined in accordance with the following methods:
2. Emission Limitations:
Carbon monoxide emissions shall not exceed 0.79 lb/hr and 3.45 tons/yr.

Applicable Compliance Method:

The carbon monoxide emission limitations for this emissions unit were established by using an emission factor of 3,940 lbs of carbon monoxide/1,000 gallons of gasoline combusted multiplied by the emissions unit's maximum hourly gasoline combustion rate (10 gallons/hr) and by the carbon monoxide loss after control (2%). The emission factor is from the U.S. EPA's Factor Information Retrieval Data System (FIRE 6.01) for criteria air pollutants, using (SCC) number 20400401 for reciprocation gasoline engines.

Carbon monoxide emission tests conducted on 10/22/98 and 4/15/99 demonstrated a 99.99% and 99.87% control efficiency for carbon monoxide, respectively.

If required, the permittee shall demonstrate compliance with the hourly carbon monoxide emission limitation in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 10.

V. Testing Requirements (continued)

3. Emission Limitations:
Organic compound emissions shall not exceed 1.48 lbs/hr and 6.48 tons/yr.
Nitrogen oxides emissions shall not exceed 1.02 lbs/hr and 4.46 tons/yr.
Particulate emissions shall not exceed 0.0647 lb/hr and 0.283 ton/yr.
Sulfur dioxide emissions shall not exceed 0.053 lb/hr and 0.232 ton/yr.

Applicable Compliance Method:

Compliance with the organic compound, nitrogen oxides, particulates, and sulfur dioxide emission limitations for this emissions unit shall be determined by multiplying the maximum gasoline usage for this emissions unit, 10 gallons per hour and 87,600 gallons per year, by emissions factors from the U.S. EPA's Factor Information Retrieval Data System (FIRE 6.01) for criteria air pollutants, using (SCC) number 20400401 for reciprocation gasoline engines. These emission factors, which are stated in pounds of pollutant per 1000 gallons of gasoline combusted, are as follows:

6.47 lbs of particulate emissions/1000 gallons gasoline combusted
5.31 lbs of sulfur dioxide/1000 gallons gasoline combusted
102 lbs of nitrogen oxides/1000 gallons gasoline combusted
148 lbs of organic compounds/1000 gallons gasoline combusted

If required, the permittee shall demonstrate compliance with these emission limitations in accordance with the appropriate approved method(s) found in 40 CFR Part 60, Appendix A.

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Performance Dynamometer (Rm. 103) (B014)

Activity Description: Engine performance and durability testing.

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>
performance dynamometer in building #5 (room 103)	OAC rule 3745-17-07(A)	Visible particulate emissions shall not exceed 20% opacity as a 6-minute average except as provided by rule.
	OAC rule 3745-17-11(B)(5)	Particulate emissions shall not exceed 0.310 pound per million Btu of actual heat input. (See A.I.2.a and A.I.2.b below.)
	OAC rule 3745-23-06(B)	See A.I.2.c below.
	OAC rule 3745-21-08(B)	See A.I.2.c below.
	OAC rule 3745-18-06	None, exempt pursuant to OAC rule 3745-18-06(B).

2. Additional Terms and Conditions

- 2.a The internal combustion engines used in association with this emissions unit have a rated power of less than or equal to 600 horsepower and are not used to, or intended to, propel any vehicle.
- 2.b The emission limitation specified in this rule citation has been revised based upon a change in the applicable emission factor contained in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors. The revised rule was adopted by the Director of Ohio EPA in December, 1997. The USEPA has agreed to consider this revised rule as federally enforceable during the time from the effective date of this permit to the effective date of USEPA approval of this limitation as a revision to the Ohio SIP for particulate matter.
- 2.c The permittee has satisfied the "best available control techniques and operating practices" and "latest available control techniques and operating practices" required pursuant to OAC rules 3745-21-08 (Control of carbon monoxide emissions from stationary sources) and 3745-23-06 (Control of nitrogen oxides emissions from stationary sources), respectively by committing to comply with the best available technology requirements established in Permit to Install 01-6771.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving 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.

IV. Reporting Requirements

1. The permittee shall submit semiannual written reports which (a) identify all days during which any abnormal visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the abnormal visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) 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 limitations specified in Section A.I of this permit shall be determined in accordance with the following methods:

Emission Limitation:

Visible particulate emissions shall not exceed 20% opacity as a 6-minute average, except as provided by rule

Applicable Compliance Method:

If required, compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).

2. Emission Limitation:

Particulate emissions shall not exceed 0.310 pound per million Btu of actual heat input.

Applicable Compliance Method:

Compliance with this emission limitation shall be demonstrated by dividing the emission factor from U.S. EPA's Factor Information Retrieval Data System (FIRE 6.01) for reciprocation gasoline engines (0.00647 lb PM/gal) by the maximum Btu value of gasoline (117,000 Btu/gal) and multiplying this by one million. If required, the permittee shall demonstrate compliance with this emission limitation in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5 and the procedures specified in OAC rule 3745-17-03(B)(10).

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>
performance dynamometer in building #5 (room 103)	OAC rule 3745-31-05 PTI #01-6771	<p>Hourly emissions from the combustion of gasoline in this emissions unit shall not exceed the following limitations:</p> <p>0.0647 lb of particulate emissions/hr 0.0531 lb of sulfur dioxide/hr 1.02 lbs of nitrogen oxides/hr 1.48 lbs of organic compounds/hr 0.79 lb of carbon monoxide/hr</p> <p>Annual emissions from the combustion of gasoline in this emissions unit shall not exceed the following limitations:</p> <p>0.283 ton of particulate emissions/yr 0.232 ton of sulfur dioxide/yr 4.46 tons of nitrogen oxides/yr 6.48 tons of organic compounds/yr 3.45 ton of carbon monoxide/yr</p>

2. Additional Terms and Conditions

- 2.a The particulate, nitrogen oxides, sulfur dioxide, and organic compound emission limitations specified in Section B.1.1 reflect the emissions unit's potential to emit for these pollutants; therefore, there are no additional monitoring, record keeping or reporting requirements associated with these emission limitations.

II. Operational Restrictions

1. This emissions unit shall be vented to a thermal incinerator which shall reduce carbon monoxide emissions to not more than 0.79 pound per hour.
2. The average combustion temperature within the thermal incinerator, 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 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 installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, with any modifications deemed necessary by the permittee.

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

2. The permittee shall collect and record the following information each day for the control equipment:
 - a. a log of the downtime for the capture (collection) system, control device, and monitoring equipment, when the associated emissions unit was in operation; and
 - b. all 3-hour blocks of time during which the average combustion temperatures within the thermal incinerator, 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 that the emissions unit was in compliance.

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports which identify all 3-hour blocks of time during which the average combustion temperature within the thermal incinerator did not comply with the temperature limitation specified above. These reports shall be submitted as required in the General Terms and Conditions, Part I, Section B.2.
2. The permittee shall submit annual reports which specify the total emissions of particulates, sulfur dioxide, nitrogen oxides, organic compounds, and carbon monoxide from this emissions unit for the previous calendar year. The reports shall be submitted by April 15 of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual Fee Emission Report.

V. Testing Requirements

1. Compliance with the emission limitations specified in Section B.I.1 of this permit shall be determined in accordance with the following methods:
2. Emission Limitations:
Carbon monoxide emissions shall not exceed 0.79 lb/hr and 3.45 tons/yr.

Applicable Compliance Method:

The carbon monoxide emission limitations for this emissions unit were established by using an emission factor of 3,940 lbs of carbon monoxide/1,000 gallons of gasoline combusted multiplied by the emissions unit's maximum hourly gasoline combustion rate (10 gallons/hr) and by the carbon monoxide loss after control (2%). The emission factor is from the U.S. EPA's Factor Information Retrieval Data System (FIRE 6.01) for criteria air pollutants, using (SCC) number 20400401 for reciprocation gasoline engines.

Carbon monoxide emission tests conducted on 10/22/98 and 4/15/99 demonstrated a 99.99% and 99.87% control efficiency for carbon monoxide, respectively.

If required, the permittee shall demonstrate compliance with the hourly carbon monoxide emission limitation in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 10.

V. Testing Requirements (continued)

3. Emission Limitations:
Organic compound emissions shall not exceed 1.48 lbs/hr and 6.48 tons/yr.
Nitrogen oxides emissions shall not exceed 1.02 lbs/hr and 4.46 tons/yr.
Particulate emissions shall not exceed 0.0647 lb/hr and 0.283 ton/yr.
Sulfur dioxide emissions shall not exceed 0.053 lb/hr and 0.232 ton/yr.

Applicable Compliance Method:

Compliance with the organic compound, nitrogen oxides, particulates, and sulfur dioxide emission limitations for this emissions unit shall be determined by multiplying the maximum gasoline usage for this emissions unit, 10 gallons per hour and 87,600 gallons per year, by emissions factors from the U.S. EPA's Factor Information Retrieval Data System (FIRE 6.01) for criteria air pollutants, using (SCC) number 20400401 for reciprocation gasoline engines. These emission factors, which are stated in pounds of pollutant per 1000 gallons of gasoline combusted, are as follows:

6.47 lbs of particulate emissions/1000 gallons gasoline combusted
5.31 lbs of sulfur dioxide/1000 gallons gasoline combusted
102 lbs of nitrogen oxides/1000 gallons gasoline combusted
148 lbs of organic compounds/1000 gallons gasoline combusted

If required, the permittee shall demonstrate compliance with these emission limitations in accordance with the appropriate approved method(s) found in 40 CFR Part 60, Appendix A.

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Durability Dynamometer (Rm. 105) (B015)
Activity Description: Engine performance and durability testing.

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>
durability dynamometer in building #5	OAC rule 3745-17-07(A)	Visible particulate emissions shall not exceed 20% opacity as a 6-minute average except as provided by rule.
	OAC rule 3745-17-11(B)(5)	Particulate emissions shall not exceed 0.310 pound per million Btu of actual heat input. (See A.I.2.a and A.I.2.b below.)
	OAC rule 3745-23-06(B)	See A.I.2.c below.
	OAC rule 3745-21-08(B)	See A.I.2.c below.
	OAC rule 3745-18-06	None, exempt pursuant to OAC rule 3745-18-06(B).

2. Additional Terms and Conditions

- 2.a The internal combustion engines used in association with this emissions unit have a rated power of less than or equal to 600 horsepower and are not used to, or intended to, propel any vehicle.
- 2.b The emission limitation specified in this rule citation has been revised based upon a change in the applicable emission factor contained in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors. The revised rule was adopted by the Director of Ohio EPA in December, 1997. The USEPA has agreed to consider this revised rule as federally enforceable during the time from the effective date of this permit to the effective date of USEPA approval of this limitation as a revision to the Ohio SIP for particulate matter.
- 2.c The permittee has satisfied the "best available control techniques and operating practices" and "latest available control techniques and operating practices" required pursuant to OAC rules 3745-21-08 (Control of carbon monoxide emissions from stationary sources) and 3745-23-06 (Control of nitrogen oxides emissions from stationary sources), respectively by committing to comply with the best available technology requirements established in Permit to Install 01-6771.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving 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.

IV. Reporting Requirements

1. The permittee shall submit semiannual written reports which (a) identify all days during which any abnormal visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the abnormal visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) 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 limitations specified in Section A.I of this permit shall be determined in accordance with the following methods:

Emission Limitation:

Visible particulate emissions shall not exceed 20% opacity as a 6-minute average, except as provided by rule

Applicable Compliance Method:

If required, compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).

2. Emission Limitation:

Particulate emissions shall not exceed 0.310 pound per million Btu of actual heat input.

Applicable Compliance Method:

Compliance with this emission limitation shall be demonstrated by dividing the emission factor from U.S. EPA's Factor Information Retrieval Data System (FIRE 6.01) for reciprocation gasoline engines (0.00647 lb PM/gal) by the maximum Btu value of gasoline (117,000 Btu/gal) and multiplying this by one million. If required, the permittee shall demonstrate compliance with this emission limitation in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5 and the procedures specified in OAC rule 3745-17-03(B)(10).

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>
durability dynamometer in building #5	OAC rule 3745-31-05 PTI #01-6771	<p>Hourly emissions from the combustion of gasoline in this emissions unit shall not exceed the following limitations:</p> <p>0.0647 lb of particulate emissions/hr 0.0531 lb of sulfur dioxide/hr 1.02 lbs of nitrogen oxides/hr 1.48 lbs of organic compounds/hr 0.79 lb of carbon monoxide/hr</p> <p>Annual emissions from the combustion of gasoline in this emissions unit shall not exceed the following limitations:</p> <p>0.283 ton of particulate emissions/yr 0.232 ton of sulfur dioxide/yr 4.46 tons of nitrogen oxides/yr 6.48 tons of organic compounds/yr 3.45 ton of carbon monoxide/yr</p>

2. Additional Terms and Conditions

- 2.a The particulate, nitrogen oxides, sulfur dioxide, and organic compound emission limitations specified in Section B.1.1 reflect the emissions unit's potential to emit for these pollutants; therefore, there are no additional monitoring, record keeping or reporting requirements associated with these emission limitations.

II. Operational Restrictions

1. This emissions unit shall be vented to a thermal incinerator which shall reduce carbon monoxide emissions to not more than 0.79 pound per hour.
2. The average combustion temperature within the thermal incinerator, 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 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 installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, with any modifications deemed necessary by the permittee.

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

2. The permittee shall collect and record the following information each day for the control equipment:
 - a. a log of the downtime for the capture (collection) system, control device, and monitoring equipment, when the associated emissions unit was in operation; and
 - b. all 3-hour blocks of time during which the average combustion temperatures within the thermal incinerator, 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 that the emissions unit was in compliance.

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports which identify all 3-hour blocks of time during which the average combustion temperature within the thermal incinerator did not comply with the temperature limitation specified above. These reports shall be submitted as required in the General Terms and Conditions, Part I, Section B.2.
2. The permittee shall submit annual reports which specify the total emissions of particulates, sulfur dioxide, nitrogen oxides, organic compounds, and carbon monoxide from this emissions unit for the previous calendar year. The reports shall be submitted by April 15 of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual Fee Emission Report.

V. Testing Requirements

1. Compliance with the emission limitations specified in Section B.I.1 of this permit shall be determined in accordance with the following methods:
2. Emission Limitations:
Carbon monoxide emissions shall not exceed 0.79 lb/hr and 3.45 tons/yr.

Applicable Compliance Method:

The carbon monoxide emission limitations for this emissions unit were established by using an emission factor of 3,940 lbs of carbon monoxide/1,000 gallons of gasoline combusted multiplied by the emissions unit's maximum hourly gasoline combustion rate (10 gallons/hr) and by the carbon monoxide loss after control (2%). The emission factor is from the U.S. EPA's Factor Information Retrieval Data System (FIRE 6.01) for criteria air pollutants, using (SCC) number 20400401 for reciprocation gasoline engines.

Carbon monoxide emission tests conducted on 10/22/98 and 4/15/99 demonstrated a 99.99% and 99.87% control efficiency for carbon monoxide, respectively.

If required, the permittee shall demonstrate compliance with the hourly carbon monoxide emission limitation in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 10.

V. Testing Requirements (continued)

3. Emission Limitations:
Organic compound emissions shall not exceed 1.48 lbs/hr and 6.48 tons/yr.
Nitrogen oxides emissions shall not exceed 1.02 lbs/hr and 4.46 tons/yr.
Particulate emissions shall not exceed 0.0647 lb/hr and 0.283 ton/yr.
Sulfur dioxide emissions shall not exceed 0.053 lb/hr and 0.232 ton/yr.

Applicable Compliance Method:

Compliance with the organic compound, nitrogen oxides, particulates, and sulfur dioxide emission limitations for this emissions unit shall be determined by multiplying the maximum gasoline usage for this emissions unit, 10 gallons per hour and 87,600 gallons per year, by emissions factors from the U.S. EPA's Factor Information Retrieval Data System (FIRE 6.01) for criteria air pollutants, using (SCC) number 20400401 for reciprocation gasoline engines. These emission factors, which are stated in pounds of pollutant per 1000 gallons of gasoline combusted, are as follows:

6.47 lbs of particulate emissions/1000 gallons gasoline combusted
5.31 lbs of sulfur dioxide/1000 gallons gasoline combusted
102 lbs of nitrogen oxides/1000 gallons gasoline combusted
148 lbs of organic compounds/1000 gallons gasoline combusted

If required, the permittee shall demonstrate compliance with these emission limitations in accordance with the appropriate approved method(s) found in 40 CFR Part 60, Appendix A.

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Transmission Dynamometer (Rm. 107) (B016)
Activity Description: Engine performance and durability testing.

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>
transmission dynamometer in building #5	OAC rule 3745-17-07(A)	Visible particulate emissions shall not exceed 20% opacity as a 6-minute average except as provided by rule.
	OAC rule 3745-17-11(B)(5)	Particulate emissions shall not exceed 0.310 pound per million Btu of actual heat input. (See A.I.2.a and A.I.2.b below.)
	OAC rule 3745-23-06(B)	See A.I.2.c below.
	OAC rule 3745-21-08(B)	See A.I.2.c below.
	OAC rule 3745-18-06	None, exempt pursuant to OAC rule 3745-18-06(B).

2. Additional Terms and Conditions

- 2.a** The internal combustion engines used in association with this emissions unit have a rated power of less than or equal to 600 horsepower and are not used to, or intended to, propel any vehicle.
- 2.b** The emission limitation specified in this rule citation has been revised based upon a change in the applicable emission factor contained in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors. The revised rule was adopted by the Director of Ohio EPA in December, 1997. The USEPA has agreed to consider this revised rule as federally enforceable during the time from the effective date of this permit to the effective date of USEPA approval of this limitation as a revision to the Ohio SIP for particulate matter.
- 2.c** The permittee has satisfied the "best available control techniques and operating practices" and "latest available control techniques and operating practices" required pursuant to OAC rules 3745-21-08 (Control of carbon monoxide emissions from stationary sources) and 3745-23-06 (Control of nitrogen oxides emissions from stationary sources), respectively by committing to comply with the best available technology requirements established in Permit to Install 01-6771.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving 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.

IV. Reporting Requirements

1. The permittee shall submit semiannual written reports which (a) identify all days during which any abnormal visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the abnormal visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) 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 limitations specified in Section A.I of this permit shall be determined in accordance with the following methods:

Emission Limitation:

Visible particulate emissions shall not exceed 20% opacity as a 6-minute average, except as provided by rule

Applicable Compliance Method:

If required, compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).

2. Emission Limitation:

Particulate emissions shall not exceed 0.310 pound per million Btu of actual heat input.

Applicable Compliance Method:

Compliance with this emission limitation shall be demonstrated by dividing the emission factor from U.S. EPA's Factor Information Retrieval Data System (FIRE 6.01) for reciprocation gasoline engines (0.00647 lb PM/gal) by the maximum Btu value of gasoline (117,000 Btu/gal) and multiplying this by one million. If required, the permittee shall demonstrate compliance with this emission limitation in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5 and the procedures specified in OAC rule 3745-17-03(B)(10).

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>
transmission dynamometer in building #5	OAC rule 3745-31-05 PTI #01-6771	<p>Hourly emissions from the combustion of gasoline in this emissions unit shall not exceed the following limitations:</p> <p>0.0647 lb of particulate emissions/hr 0.0531 lb of sulfur dioxide/hr 1.02 lbs of nitrogen oxides/hr 1.48 lbs of organic compounds/hr 0.79 lb of carbon monoxide/hr</p> <p>Annual emissions from the combustion of gasoline in this emissions unit shall not exceed the following limitations:</p> <p>0.283 ton of particulate emissions/yr 0.232 ton of sulfur dioxide/yr 4.46 tons of nitrogen oxides/yr 6.48 tons of organic compounds/yr 3.45 ton of carbon monoxide/yr</p>

2. Additional Terms and Conditions

- 2.a The particulate, nitrogen oxides, sulfur dioxide, and organic compound emission limitations specified in Section B.1.1 reflect the emissions unit's potential to emit for these pollutants; therefore, there are no additional monitoring, record keeping or reporting requirements associated with these emission limitations.

II. Operational Restrictions

1. This emissions unit shall be vented to a thermal incinerator which shall reduce carbon monoxide emissions to not more than 0.79 pound per hour.
2. The average combustion temperature within the thermal incinerator, 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 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 installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, with any modifications deemed necessary by the permittee.

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

2. The permittee shall collect and record the following information each day for the control equipment:
 - a. a log of the downtime for the capture (collection) system, control device, and monitoring equipment, when the associated emissions unit was in operation; and
 - b. all 3-hour blocks of time during which the average combustion temperatures within the thermal incinerator, 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 that the emissions unit was in compliance.

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports which identify all 3-hour blocks of time during which the average combustion temperature within the thermal incinerator did not comply with the temperature limitation specified above. These reports shall be submitted as required in the General Terms and Conditions, Part I, Section B.2.
2. The permittee shall submit annual reports which specify the total emissions of particulates, sulfur dioxide, nitrogen oxides, organic compounds, and carbon monoxide from this emissions unit for the previous calendar year. The reports shall be submitted by April 15 of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual Fee Emission Report.

V. Testing Requirements

1. Compliance with the emission limitations specified in Section B.I.1 of this permit shall be determined in accordance with the following methods:
2. Emission Limitations:
Carbon monoxide emissions shall not exceed 0.79 lb/hr and 3.45 tons/yr.

Applicable Compliance Method:

The carbon monoxide emission limitations for this emissions unit were established by using an emission factor of 3,940 lbs of carbon monoxide/1,000 gallons of gasoline combusted multiplied by the emissions unit's maximum hourly gasoline combustion rate (10 gallons/hr) and by the carbon monoxide loss after control (2%). The emission factor is from the U.S. EPA's Factor Information Retrieval Data System (FIRE 6.01) for criteria air pollutants, using (SCC) number 20400401 for reciprocation gasoline engines.

Carbon monoxide emission tests conducted on 10/22/98 and 4/15/99 demonstrated a 99.99% and 99.87% control efficiency for carbon monoxide, respectively.

If required, the permittee shall demonstrate compliance with the hourly carbon monoxide emission limitation in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 10.

V. Testing Requirements (continued)

3. Emission Limitations:
Organic compound emissions shall not exceed 1.48 lbs/hr and 6.48 tons/yr.
Nitrogen oxides emissions shall not exceed 1.02 lbs/hr and 4.46 tons/yr.
Particulate emissions shall not exceed 0.0647 lb/hr and 0.283 ton/yr.
Sulfur dioxide emissions shall not exceed 0.053 lb/hr and 0.232 ton/yr.

Applicable Compliance Method:

Compliance with the organic compound, nitrogen oxides, particulates, and sulfur dioxide emission limitations for this emissions unit shall be determined by multiplying the maximum gasoline usage for this emissions unit, 10 gallons per hour and 87,600 gallons per year, by emissions factors from the U.S. EPA's Factor Information Retrieval Data System (FIRE 6.01) for criteria air pollutants, using (SCC) number 20400401 for reciprocation gasoline engines. These emission factors, which are stated in pounds of pollutant per 1000 gallons of gasoline combusted, are as follows:

6.47 lbs of particulate emissions/1000 gallons gasoline combusted
5.31 lbs of sulfur dioxide/1000 gallons gasoline combusted
102 lbs of nitrogen oxides/1000 gallons gasoline combusted
148 lbs of organic compounds/1000 gallons gasoline combusted

If required, the permittee shall demonstrate compliance with these emission limitations in accordance with the appropriate approved method(s) found in 40 CFR Part 60, Appendix A.

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Emissions Dynamometer, Building #5 (B017)
Activity Description: Engine emission testing for the EPA (use of complete cars).

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>
emissions dynamometer in building #5	OAC rule 3745-17-07(A)	None, see A.I.2.b below.
	OAC rule 3745-17-11(B)(1)	None, see A.I.2.a below.
	OAC rule 3745-21-08(B)	None, see A.I.2.c below.
	OAC rule 3745-23-06(B)	None, see A.I.2.c below.
	OAC rule 3745-18-06	None, exempt pursuant to OAC rule 3745-18-06(B).

2. Additional Terms and Conditions

- 2.a The uncontrolled mass rate of particulate emissions from this emissions unit is less than 10 pounds per hour. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(a)(ii), Figure II of OAC rule 3745-17-11 does not apply. In addition, Table I of OAC rule 3745-17-11 does not apply because the process weight, as defined in OAC rule 3745-17-01(B)(14), is equal to zero.
- 2.b 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.c The permittee has satisfied the "best available control techniques and operating practices" and "latest available control techniques and operating practices" required pursuant to OAC rules 3745-21-08 (Control of carbon monoxide emissions from stationary sources) and 3745-23-06 (Control of nitrogen oxides emissions from stationary sources), respectively by committing to comply with the best available technology requirements established in Permit to Install 01-6771.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

Facility Name: **Honda R&D Americas, Inc.**
Facility ID: **01-80-00-0156**
Emissions Unit: **Emissions Dynamometer, Building #5 (B017)**

V. Testing Requirements

None

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>
emissions dynamometer in building #5	OAC rule 3745-31-05 PTI #01-6771	<p>Hourly emissions from the combustion of gasoline in this emissions unit shall not exceed the following limitations:</p> <p>0.0647 lb of particulate emissions/hr 0.0531 lb of sulfur dioxide/hr 1.02 lbs of nitrogen oxides/hr 1.48 lbs of organic compounds/hr 2.0 lbs of carbon monoxide/hr</p> <p>Annual emissions from the combustion of gasoline in this emissions unit shall not exceed the following limitations:</p> <p>0.283 ton particulate emissions/yr 0.232 ton of sulfur dioxide/yr 4.46 tons of nitrogen oxides/yr 6.48 tons of organic compounds/yr 8.76 tons of carbon monoxide/yr</p> <p>Visible particulate emissions shall not exceed 20% opacity as a 6-minute average.</p>

2. Additional Terms and Conditions

- 2.a The hourly and annual emission limitations specified in Section B.I.1 reflect the emissions unit's potential to emit for these pollutants; therefore, there are no additional monitoring, record keeping or reporting requirements associated with these emission limitations.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving 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.

IV. Reporting Requirements

1. The permittee shall submit semiannual written reports which (a) identify all days during which any abnormal visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the abnormal visible particulate emissions. These reports shall be submitted to the Ohio EPA Central District Office by January 31 and July 31 of each year and shall cover the previous 6-month period.
2. The permittee shall submit annual reports which specify the total emissions of particulates, sulfur dioxide, nitrogen oxides, organic compounds, and carbon monoxide from this emissions unit for the previous calendar year. The reports shall be submitted by April 15 of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual Fee Emission Report.

V. Testing Requirements

1. Compliance with the emission limitations specified in Section B.I.1 of this permit shall be determined in accordance with the following methods:
2. Emission Limitations:
Carbon monoxide emissions shall not exceed 2.0 lbs/hr and 8.76 tons/yr.

Applicable Compliance Method:

The maximum uncontrolled hourly carbon monoxide emissions were established using an emission factor of 0.2 pound of carbon monoxide per gallon of gasoline and a maximum gasoline usage of 10 gallons per hour (this emission factor was derived from the highest dynamometer testing results, from testing conducted on 8/20/97 on an uncontrolled V6 engine at maximum operating conditions on dynamometer B018). The annual carbon monoxide emission limitation was established by multiplying the worst case hourly emission rate (2.0 lbs/hr) by 8760 hours per year.

If required, the permittee shall demonstrate compliance with the hourly carbon monoxide emission limitation in accordance with 40 CFR Part 60, Appendix A, Method 10.

V. Testing Requirements (continued)

3. Emission Limitations:
Organic compound emissions shall not exceed 1.48 lbs/hr and 6.48 tons/yr.
Nitrogen oxides emissions shall not exceed 1.02 lbs/hr and 4.46 tons/yr.
Particulate emissions shall not exceed 0.0647 lb/hr and 0.283 ton/yr.
Sulfur dioxide emissions shall not exceed 0.0531 lb/hr and 0.232 ton/yr.

Applicable Compliance Method:

Compliance with the organic compound, nitrogen oxides, particulates, and sulfur dioxide emission limitations for this emissions unit shall be determined by multiplying the maximum hourly gasoline usage rate for this emissions unit, 10 gallons per hour and 87,600 gallons per year, by emission factors from U.S. EPA's Factor Information Retrieval Data System (FIRE 6.01) for criteria air pollutants, using (SCC) number 20400401 for reciprocation gasoline engines. The emission factors for particulates, sulfur dioxide, nitrogen oxides, and organic compounds are specified below.

6.47 lbs of particulate emissions/1000 gallons of gasoline burned
5.31 lbs of sulfur dioxide/1000 gallons of gasoline burned
102 lbs of nitrogen oxides/1000 gallons of gasoline burned
148 lbs of organic compounds/1000 gallons of gasoline burned

If required, the permittee shall demonstrate compliance with these emission limitations in accordance with the appropriate approved method(s) found in 40 CFR Part 60, Appendix A.

4. Emission Limitation:
Visible particulate emissions shall not exceed 20% opacity as a 6-minute average.

Applicable Compliance Method:

If required, compliance with this emission limitation shall be determined through visible emissions observation performed in accordance with 40 CFR Part 60, Appendix A, Method 9.

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: EAC #1, Building #7 (B018)
Activity Description: Gasoline Engine Testing: V6 andV4 engines

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>
gasoline engine testing dynamometer (EAC) in building #7	OAC rule 3745-17-07(A)	Visible particulate emissions shall not exceed 20% opacity as a 6-minute average except as provided by rule.
	OAC rule 3745-17-11(B)(5)	Particulate emissions shall not exceed 0.310 pound per million Btu of actual heat input. (See A.I.2.a and A.I.2.b below.)
	OAC rule 3745-23-06(B)	See A.I.2.c below.
	OAC rule 3745-21-08(B)	See A.I.2.c below.
	OAC rule 3745-18-06	None, exempt pursuant to OAC rule 3745-18-06(B).

2. Additional Terms and Conditions

- 2.a** The internal combustion engines used in association with this emissions unit have a rated power of less than or equal to 600 horsepower and are not used to, or intended to, propel any vehicle.
- 2.b** The emission limitation specified in this rule citation has been revised based upon a change in the applicable emission factor contained in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors. The revised rule was adopted by the Director of Ohio EPA in December, 1997. The USEPA has agreed to consider this revised rule as federally enforceable during the time from the effective date of this permit to the effective date of USEPA approval of this limitation as a revision to the Ohio SIP for particulate matter.
- 2.c** The permittee has satisfied the "best available control techniques and operating practices" and "latest available control techniques and operating practices" required pursuant to OAC rules 3745-21-08 (Control of carbon monoxide emissions from stationary sources) and 3745-23-06 (Control of nitrogen oxides emissions from stationary sources), respectively by committing to comply with the best available technology requirements established in Permit to Install 01-6422.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving 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.

IV. Reporting Requirements

1. The permittee shall submit semiannual written reports which (a) identify all days during which any abnormal visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the abnormal visible particulate emissions. These reports shall be submitted to the Ohio EPA Central 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 limitations specified in Section A.I of this permit shall be determined in accordance with the following methods:

Emission Limitation:

Visible particulate emissions shall not exceed 20% opacity as a 6-minute average, except as provided by rule

Applicable Compliance Method:

If required, compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).

2. Emission Limitation:

Particulate emissions shall not exceed 0.310 pound per million Btu of actual heat input.

Applicable Compliance Method:

Compliance with this emission limitation shall be demonstrated by dividing the emission factor from U.S. EPA's Factor Information Retrieval Data System (FIRE 6.01) for reciprocation gasoline engines (0.00647 lb PM/gal) by the maximum Btu value of gasoline (117,000 Btu/gal) and multiplying this by one million. If required, the permittee shall demonstrate compliance with this emission limitation in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5 and the procedures specified in OAC rule 3745-17-03(B)(10).

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>
gasoline engine testing dynamometer (EAC) in building #7	OAC rule 3745-31-05 PTI #01-6422	<p>Hourly emissions from the combustion of gasoline in this emissions unit shall not exceed the following limitations:</p> <p>0.0647 lb of particulate emissions/hr 0.0531 lb of sulfur dioxide/hr 1.02 lbs of nitrogen oxides/hr 1.48 lbs of organic compounds/hr 2.0 lbs of carbon monoxide/hr</p> <p>Annual emissions from the combustion of gasoline in this emissions unit shall not exceed the following limitations:</p> <p>0.283 ton particulate emissions/yr 0.232 ton of sulfur dioxide/yr 4.46 tons of nitrogen oxides/yr 6.48 tons of organic compounds/yr 8.76 tons of carbon monoxide/yr</p>

2. Additional Terms and Conditions

- 2.a The hourly and annual emission limitations specified in Section B.I.1 reflect the emissions unit's potential to emit for these pollutants; therefore, there are no additional monitoring, record keeping or reporting requirements associated with these emission limitations.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

1. The permittee shall submit annual reports which specify the total emissions of particulates, sulfur dioxide, nitrogen oxides, organic compounds, and carbon monoxide from this emissions unit for the previous calendar year. The reports shall be submitted by April 15 of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual Fee Emission Report.

V. Testing Requirements

1. Compliance with the emission limitations specified in Section B.I.1 of this permit shall be determined in accordance with the following methods:

V. Testing Requirements (continued)

2. Emission Limitations:
Carbon monoxide emissions shall not exceed 2.0 lbs/hr and 8.76 tons/yr.

Applicable Compliance Method:

The maximum uncontrolled hourly carbon monoxide emissions were established using an emission factor of 0.2 pound of carbon monoxide per gallon of gasoline and a maximum gasoline usage of 10 gallons per hour (this emission factor was derived from the highest dynamometer testing results, from testing conducted on 8/20/97 on an uncontrolled V6 engine at maximum operating conditions on dynamometer B018). The annual carbon monoxide emission limitation was established by multiplying the worst case hourly emission rate (2.0 lbs/hr) by 8760 hours per year.

If required, the permittee shall demonstrate compliance with the hourly carbon monoxide emission limitation in accordance with 40 CFR Part 60, Appendix A, Method 10.

3. Emission Limitations:
Organic compound emissions shall not exceed 1.48 lbs/hr and 6.48 tons/yr.
Nitrogen oxides emissions shall not exceed 1.02 lbs/hr and 4.46 tons/yr.
Particulate emissions shall not exceed 0.0647 lb/hr and 0.283 ton/yr.
Sulfur dioxide emissions shall not exceed 0.0531 lb/hr and 0.232 ton/yr.

Applicable Compliance Method:

Compliance with the organic compound, nitrogen oxides, particulates, and sulfur dioxide emission limitations for this emissions unit shall be determined by multiplying the maximum hourly gasoline usage rate for this emissions unit, 10 gallons per hour and 87,600 gallons per year, by emission factors from U.S. EPA's Factor Information Retrieval Data System (FIRE 6.01) for criteria air pollutants, using (SCC) number 20400401 for reciprocation gasoline engines. The emission factors for particulates, sulfur dioxide, nitrogen oxides, and organic compounds are specified below.

6.47 lbs of particulate emissions/1000 gallons of gasoline burned
5.31 lbs of sulfur dioxide/1000 gallons of gasoline burned
102 lbs of nitrogen oxides/1000 gallons of gasoline burned
148 lbs of organic compounds/1000 gallons of gasoline burned

If required, the permittee shall demonstrate compliance with these emission limitations in accordance with the appropriate approved method(s) found in 40 CFR Part 60, Appendix A.

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Power-Train Simulator Dynamometer, Building #5 (B019)
Activity Description: Engine Testing on Rear Differential

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>
power-train simulator dynamometer (PTS) in building #5	OAC rule 3745-17-07(A)	Visible particulate emissions shall not exceed 20% opacity as a 6-minute average except as provided by rule.
	OAC rule 3745-17-11(B)(5)	Particulate emissions shall not exceed 0.310 pound per million Btu of actual heat input. (See A.I.2.a and A.I.2.b below.)
	OAC rule 3745-23-06(B)	See A.I.2.c below.
	OAC rule 3745-21-08(B)	See A.I.2.c below.
	OAC rule 3745-18-06	None, exempt pursuant to OAC rule 3745-18-06(B).

2. Additional Terms and Conditions

- 2.a** The internal combustion engines used in association with this emissions unit have a rated power of less than or equal to 600 horsepower and are not used to, or intended to, propel any vehicle.
- 2.b** The emission limitation specified in this rule citation has been revised based upon a change in the applicable emission factor contained in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors. The revised rule was adopted by the Director of Ohio EPA in December, 1997. The USEPA has agreed to consider this revised rule as federally enforceable during the time from the effective date of this permit to the effective date of USEPA approval of this limitation as a revision to the Ohio SIP for particulate matter.
- 2.c** The permittee has satisfied the "best available control techniques and operating practices" and "latest available control techniques and operating practices" required pursuant to OAC rules 3745-21-08 (Control of carbon monoxide emissions from stationary sources) and 3745-23-06 (Control of nitrogen oxides emissions from stationary sources), respectively by committing to comply with the best available technology requirements established in Permit to Install 01-6781.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving 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.

IV. Reporting Requirements

1. The permittee shall submit semiannual written reports which (a) identify all days during which any abnormal visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the abnormal visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) 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 limitations specified in Section A.I of this permit shall be determined in accordance with the following methods:

Emission Limitation:

Visible particulate emissions shall not exceed 20% opacity as a 6-minute average, except as provided by rule

Applicable Compliance Method:

If required, compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).

2. Emission Limitation:

Particulate emissions shall not exceed 0.310 pound per million Btu of actual heat input.

Applicable Compliance Method:

Compliance with this emission limitation shall be demonstrated by dividing the emission factor from U.S. EPA's Factor Information Retrieval Data System (FIRE 6.01) for reciprocation gasoline engines (0.00647 lb PM/gal) by the maximum Btu value of gasoline (117,000 Btu/gal) and multiplying this by one million. If required, the permittee shall demonstrate compliance with this emission limitation in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5 and the procedures specified in OAC rule 3745-17-03(B)(10).

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>
power-train simulator dynamometer (PTS) in building #5	OAC rule 3745-31-05 PTI #01-6781	<p>Hourly emissions from the combustion of gasoline in this emissions unit shall not exceed the following limitations:</p> <p>0.0647 lb of particulate emissions/hr 0.0531 lb of sulfur dioxide/hr 1.02 lbs of nitrogen oxides/hr 1.48 lbs of organic compounds/hr 0.79 lb of carbon monoxide/hr</p> <p>Annual emissions from the combustion of gasoline in this emissions unit shall not exceed the following limitations:</p> <p>0.283 ton of particulate emissions/yr 0.232 ton of sulfur dioxide/yr 4.46 tons of nitrogen oxides/yr 6.48 tons of organic compounds/yr 3.45 ton of carbon monoxide/yr</p>

2. Additional Terms and Conditions

- 2.a The particulate, nitrogen oxides, sulfur dioxide, and organic compound emission limitations specified in Section B.1.1 reflect the emissions unit's potential to emit for these pollutants; therefore, there are no additional monitoring, record keeping or reporting requirements associated with these emission limitations.

II. Operational Restrictions

1. This emissions unit shall be vented to a thermal incinerator which shall reduce carbon monoxide emissions to not more than 0.79 pound per hour.
2. The average combustion temperature within the thermal incinerator, 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 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 installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, with any modifications deemed necessary by the permittee.

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

2. The permittee shall collect and record the following information each day for the control equipment:
 - a. a log of the downtime for the capture (collection) system, control device, and monitoring equipment, when the associated emissions unit was in operation; and
 - b. all 3-hour blocks of time during which the average combustion temperatures within the thermal incinerator, 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 that the emissions unit was in compliance.

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports which identify all 3-hour blocks of time during which the average combustion temperature within the thermal incinerator did not comply with the temperature limitation specified above. These reports shall be submitted as required in the General Terms and Conditions, Part I, Section B.2.
2. The permittee shall submit annual reports which specify the total emissions of particulates, sulfur dioxide, nitrogen oxides, organic compounds, and carbon monoxide from this emissions unit for the previous calendar year. The reports shall be submitted by April 15 of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual Fee Emission Report.

V. Testing Requirements

1. Compliance with the emission limitations specified in Section B.I.1 of this permit shall be determined in accordance with the following methods:
2. Emission Limitations:
Carbon monoxide emissions shall not exceed 0.79 lb/hr and 3.45 tons/yr.

Applicable Compliance Method:

The carbon monoxide emission limitations for this emissions unit were established by using an emission factor of 3,940 lbs of carbon monoxide/1,000 gallons of gasoline combusted multiplied by the emissions unit's maximum hourly gasoline combustion rate (10 gallons/hr) and by the carbon monoxide loss after control (2%). The emission factor is from the U.S. EPA's Factor Information Retrieval Data System (FIRE 6.01) for criteria air pollutants, using (SCC) number 20400401 for reciprocation gasoline engines.

Carbon monoxide emission tests conducted on 10/22/98 and 4/15/99 demonstrated a 99.99% and 99.87% control efficiency for carbon monoxide, respectively.

If required, the permittee shall demonstrate compliance with the hourly carbon monoxide emission limitation in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 10.

V. Testing Requirements (continued)

- 3.** Emission Limitations:
Organic compound emissions shall not exceed 1.48 lbs/hr and 6.48 tons/yr.
Nitrogen oxides emissions shall not exceed 1.02 lbs/hr and 4.46 tons/yr.
Particulate emissions shall not exceed 0.0647 lb/hr and 0.283 ton/yr.
Sulfur dioxide emissions shall not exceed 0.053 lb/hr and 0.232 ton/yr.

Applicable Compliance Method:

Compliance with the organic compound, nitrogen oxides, particulates, and sulfur dioxide emission limitations for this emissions unit shall be determined by multiplying the maximum gasoline usage for this emissions unit, 10 gallons per hour and 87,600 gallons per year, by emissions factors from the U.S. EPA's Factor Information Retrieval Data System (FIRE 6.01) for criteria air pollutants, using (SCC) number 20400401 for reciprocation gasoline engines. These emission factors, which are stated in pounds of pollutant per 1000 gallons of gasoline combusted, are as follows:

6.47 lbs of particulate emissions/1000 gallons gasoline combusted
5.31 lbs of sulfur dioxide/1000 gallons gasoline combusted
102 lbs of nitrogen oxides/1000 gallons gasoline combusted
148 lbs of organic compounds/1000 gallons gasoline combusted

If required, the permittee shall demonstrate compliance with these emission limitations in accordance with the appropriate approved method(s) found in 40 CFR Part 60, Appendix A.

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Vehicle Test Dynamometer, Building #5 (B020)
Activity Description: Engine emissions testing using the entire car.

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>
vehicle test dynamometer (VTD) in building #5	OAC rule 3745-17-07(A)	None, see A.I.2.b below.
	OAC rule 3745-17-11(B)(1)	None, see A.I.2.a below.
	OAC rule 3745-21-08(B)	None, see A.I.2.c below.
	OAC rule 3745-23-06(B)	None, see A.I.2.c below.
	OAC rule 3745-18-06	None, exempt pursuant to OAC rule 3745-18-06(B).

2. Additional Terms and Conditions

- 2.a The uncontrolled mass rate of particulate emissions from this emissions unit is less than 10 pounds per hour. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(a)(ii), Figure II of OAC rule 3745-17-11 does not apply. In addition, Table I of OAC rule 3745-17-11 does not apply because the process weight, as defined in OAC rule 3745-17-01(B)(14), is equal to zero.
- 2.b 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.c The permittee has satisfied the "best available control techniques and operating practices" and "latest available control techniques and operating practices" required pursuant to OAC rules 3745-21-08 (Control of carbon monoxide emissions from stationary sources) and 3745-23-06 (Control of nitrogen oxides emissions from stationary sources), respectively by committing to comply with the best available technology requirements established in Permit to Install 01-6810.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

Facility Name: **Honda R&D Americas, Inc.**
Facility ID: **01-80-00-0156**
Emissions Unit: **Vehicle Test Dynamometer, Building #5 (B020)**

V. Testing Requirements

None

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>
vehicle test dynamometer (VTD) in building #5	OAC rule 3745-31-05 PTI #01-6810	<p>Hourly emissions from the combustion of gasoline in this emissions unit shall not exceed the following limitations:</p> <p>0.0647 lb of particulate emissions/hr 0.0531 lb of sulfur dioxide/hr 1.02 lbs of nitrogen oxides/hr 1.48 lbs of organic compounds/hr 2.0 lbs of carbon monoxide/hr</p> <p>Annual emissions from the combustion of gasoline in this emissions unit shall not exceed the following limitations:</p> <p>0.283 ton particulate emissions/yr 0.232 ton of sulfur dioxide/yr 4.46 tons of nitrogen oxides/yr 6.48 tons of organic compounds/yr 8.76 tons of carbon monoxide/yr</p> <p>Visible particulate emissions shall not exceed 20% opacity as a 6-minute average.</p>

2. Additional Terms and Conditions

- 2.a The hourly and annual emission limitations specified in Section B.I.1 reflect the emissions unit's potential to emit for these pollutants; therefore, there are no additional monitoring, record keeping or reporting requirements associated with these emission limitations.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving 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.

IV. Reporting Requirements

1. The permittee shall submit semiannual written reports which (a) identify all days during which any abnormal visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the abnormal visible particulate emissions. These reports shall be submitted to the Ohio EPA Central District Office by January 31 and July 31 of each year and shall cover the previous 6-month period.
2. The permittee shall submit annual reports which specify the total emissions of particulates, sulfur dioxide, nitrogen oxides, organic compounds, and carbon monoxide from this emissions unit for the previous calendar year. The reports shall be submitted by April 15 of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual Fee Emission Report.

V. Testing Requirements

1. Compliance with the emission limitations specified in Section B.I.1 of this permit shall be determined in accordance with the following methods:
2. Emission Limitations:
Carbon monoxide emissions shall not exceed 2.0 lbs/hr and 8.76 tons/yr.

Applicable Compliance Method:

The maximum uncontrolled hourly carbon monoxide emissions were established using an emission factor of 0.2 pound of carbon monoxide per gallon of gasoline and a maximum gasoline usage of 10 gallons per hour (this emission factor was derived from the highest dynamometer testing results, from testing conducted on 8/20/97 on an uncontrolled V6 engine at maximum operating conditions on dynamometer B018). The annual carbon monoxide emission limitation was established by multiplying the worst case hourly emission rate (2.0 lbs/hr) by 8760 hours per year.

If required, the permittee shall demonstrate compliance with the hourly carbon monoxide emission limitation in accordance with 40 CFR Part 60, Appendix A, Method 10.

V. Testing Requirements (continued)

3. Emission Limitations:
Organic compound emissions shall not exceed 1.48 lbs/hr and 6.48 tons/yr.
Nitrogen oxides emissions shall not exceed 1.02 lbs/hr and 4.46 tons/yr.
Particulate emissions shall not exceed 0.0647 lb/hr and 0.283 ton/yr.
Sulfur dioxide emissions shall not exceed 0.0531 lb/hr and 0.232 ton/yr.

Applicable Compliance Method:

Compliance with the organic compound, nitrogen oxides, particulates, and sulfur dioxide emission limitations for this emissions unit shall be determined by multiplying the maximum hourly gasoline usage rate for this emissions unit, 10 gallons per hour and 87,600 gallons per year, by emission factors from U.S. EPA's Factor Information Retrieval Data System (FIRE 6.01) for criteria air pollutants, using (SCC) number 20400401 for reciprocation gasoline engines. The emission factors for particulates, sulfur dioxide, nitrogen oxides, and organic compounds are specified below.

6.47 lbs of particulate emissions/1000 gallons of gasoline burned
5.31 lbs of sulfur dioxide/1000 gallons of gasoline burned
102 lbs of nitrogen oxides/1000 gallons of gasoline burned
148 lbs of organic compounds/1000 gallons of gasoline burned

If required, the permittee shall demonstrate compliance with these emission limitations in accordance with the appropriate approved method(s) found in 40 CFR Part 60, Appendix A.

4. Emission Limitation:
Visible particulate emissions shall not exceed 20% opacity as a 6-minute average.

Applicable Compliance Method:

If required, compliance with this emission limitation shall be determined through visible emissions observation performed in accordance with 40 CFR Part 60, Appendix A, Method 9.

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Hot/Cold Chamber Dynamometer (B021)

Activity Description: Complete car testing in hot/cold chamber.

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>
hot/cold dynamometer (HCC) in building #7	OAC rule 3745-17-07(A)	None, see A.I.2.b below.
	OAC rule 3745-17-11(B)(1)	None, see A.I.2.a below.
	OAC rule 3745-21-08(B)	None, see A.I.2.c below.
	OAC rule 3745-23-06(B)	None, see A.I.2.c below.
	OAC rule 3745-18-06	None, exempt pursuant to OAC rule 3745-18-06(B).

2. Additional Terms and Conditions

- 2.a The uncontrolled mass rate of particulate emissions from this emissions unit is less than 10 pounds per hour. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(a)(ii), Figure II of OAC rule 3745-17-11 does not apply. In addition, Table I of OAC rule 3745-17-11 does not apply because the process weight, as defined in OAC rule 3745-17-01(B)(14), is equal to zero.
- 2.b 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.c The permittee has satisfied the "best available control techniques and operating practices" and "latest available control techniques and operating practices" required pursuant to OAC rules 3745-21-08 (Control of carbon monoxide emissions from stationary sources) and 3745-23-06 (Control of nitrogen oxides emissions from stationary sources), respectively by committing to comply with the best available technology requirements established in Permit to Install 01-6811.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

Facility Name: **Honda R&D Americas, Inc.**
Facility ID: **01-80-00-0156**
Emissions Unit: **Hot/Cold Chamber Dynamometer (B021)**

V. Testing Requirements

None

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>
hot/cold dynamometer (HCC) in building #7	OAC rule 3745-31-05 PTI #01-6811	<p>Hourly emissions from the combustion of gasoline in this emissions unit shall not exceed the following limitations:</p> <p>0.0647 lb of particulate emissions/hr 0.0531 lb of sulfur dioxide/hr 1.02 lbs of nitrogen oxides/hr 1.48 lbs of organic compounds/hr 2.0 lbs of carbon monoxide/hr</p> <p>Annual emissions from the combustion of gasoline in this emissions unit shall not exceed the following limitations:</p> <p>0.283 ton particulate emissions/yr 0.232 ton of sulfur dioxide/yr 4.46 tons of nitrogen oxides/yr 6.48 tons of organic compounds/yr 8.76 tons of carbon monoxide/yr</p> <p>Visible particulate emissions shall not exceed 20% opacity as a 6-minute average.</p>

2. Additional Terms and Conditions

- 2.a The hourly and annual emission limitations specified in Section B.I.1 reflect the emissions unit's potential to emit for these pollutants; therefore, there are no additional monitoring, record keeping or reporting requirements associated with these emission limitations.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving 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.

IV. Reporting Requirements

1. The permittee shall submit semiannual written reports which (a) identify all days during which any abnormal visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the abnormal visible particulate emissions. These reports shall be submitted to the Ohio EPA Central District Office by January 31 and July 31 of each year and shall cover the previous 6-month period.
2. The permittee shall submit annual reports which specify the total emissions of particulates, sulfur dioxide, nitrogen oxides, organic compounds, and carbon monoxide from this emissions unit for the previous calendar year. The reports shall be submitted by April 15 of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual Fee Emission Report.

V. Testing Requirements

1. Compliance with the emission limitations specified in Section B.I.1 of this permit shall be determined in accordance with the following methods:
2. Emission Limitations:
Carbon monoxide emissions shall not exceed 2.0 lbs/hr and 8.76 tons/yr.

Applicable Compliance Method:

The maximum uncontrolled hourly carbon monoxide emissions were established using an emission factor of 0.2 pound of carbon monoxide per gallon of gasoline and a maximum gasoline usage of 10 gallons per hour (this emission factor was derived from the highest dynamometer testing results, from testing conducted on 8/20/97 on an uncontrolled V6 engine at maximum operating conditions on dynamometer B018). The annual carbon monoxide emission limitation was established by multiplying the worst case hourly emission rate (2.0 lbs/hr) by 8760 hours per year.

If required, the permittee shall demonstrate compliance with the hourly carbon monoxide emission limitation in accordance with 40 CFR Part 60, Appendix A, Method 10.

V. Testing Requirements (continued)

3. Emission Limitations:
Organic compound emissions shall not exceed 1.48 lbs/hr and 6.48 tons/yr.
Nitrogen oxides emissions shall not exceed 1.02 lbs/hr and 4.46 tons/yr.
Particulate emissions shall not exceed 0.0647 lb/hr and 0.283 ton/yr.
Sulfur dioxide emissions shall not exceed 0.0531 lb/hr and 0.232 ton/yr.

Applicable Compliance Method:

Compliance with the organic compound, nitrogen oxides, particulates, and sulfur dioxide emission limitations for this emissions unit shall be determined by multiplying the maximum hourly gasoline usage rate for this emissions unit, 10 gallons per hour and 87,600 gallons per year, by emission factors from U.S. EPA's Factor Information Retrieval Data System (FIRE 6.01) for criteria air pollutants, using (SCC) number 20400401 for reciprocation gasoline engines. The emission factors for particulates, sulfur dioxide, nitrogen oxides, and organic compounds are specified below.

6.47 lbs of particulate emissions/1000 gallons of gasoline burned
5.31 lbs of sulfur dioxide/1000 gallons of gasoline burned
102 lbs of nitrogen oxides/1000 gallons of gasoline burned
148 lbs of organic compounds/1000 gallons of gasoline burned

If required, the permittee shall demonstrate compliance with these emission limitations in accordance with the appropriate approved method(s) found in 40 CFR Part 60, Appendix A.

4. Emission Limitation:
Visible particulate emissions shall not exceed 20% opacity as a 6-minute average.

Applicable Compliance Method:

If required, compliance with this emission limitation shall be determined through visible emissions observation performed in accordance with 40 CFR Part 60, Appendix A, Method 9.

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Gasoline Tanks/Dispensing Facility (G001)

Activity Description: Gasoline received from tank trucks, stored, and dispensed to motor vehicles.

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>
Gasoline Dispensing Facility: one 10,000-gallon gasoline storage tank one 4,000-gallon gasoline storage tank two 1,000-gallon gasoline storage tanks two 600-gallon gasoline storage tanks	OAC 3745-21-09(R)	Stage I vapor control - 90% control efficiency for volatile organic compounds (VOCs); submerged fill

2. Additional Terms and Conditions

None

II. Operational Restrictions

1. The permittee shall comply with the following operational restrictions for the Stage I vapor control system:
 - a. the vapor balance system shall be kept in good working order and shall be used at all times during the transfer of gasoline;
 - b. there shall be no leaks in the delivery vessel pressure/vacuum relief valves and hatch covers;
 - c. there shall be no leaks in the vapor lines or liquid lines during the transfer of gasoline;
 - d. the transfer of gasoline from a delivery vessel to a stationary storage tank shall be conducted by use of submerged fill into the storage tank (the submerged fill pipe(s) are to be installed so they are within six (6) inches of the bottom of the storage tank);
 - e. all fill caps shall be "in place" and clamped during normal storage conditions; and
 - f. the permittee shall repair within 15 days any leak from the vapor balance system or vapor control system which is employed to meet the requirements of paragraph (R)(1) of OAC rule 3745-21-09 when such leak is equal to or greater than 100 percent of the lower explosive limit as propane, as determined under paragraph (K) of OAC rule 3745-21-10.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain records of the results of any leak checks, including, at a minimum, the following information:
 - a. date of inspection;
 - b. findings (may indicate no leaks discovered or location, nature, and severity of each leak);
 - c. leak determination method;
 - d. corrective action (date each leak repaired and reasons for any repair interval in excess of 15 calendar days); and
 - e. inspector's name and signature.
2. The permittee shall maintain records of the annual gasoline throughput for the facility.

IV. Reporting Requirements

1. Any leak from the vapor balance system or vapor control system that is not repaired within 15 days after identification of the leak shall be reported to the Ohio EPA Central District Office within 30 days after the repair is completed.

V. Testing Requirements

None

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>
Gasoline Dispensing Facility: one 10,000-gallon gasoline storage tank one 4,000-gallon gasoline storage tank two 1,000-gallon gasoline storage tanks two 600-gallon gasoline storage tanks	OAC rule 3745-31-05(A)(3) PTI 01-6701	Organic compound emissions shall not exceed 5.01 tons per year.

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

1. Emission Limitation

5.01 tons OC/yr

Applicable Compliance Method

Compliance with the annual organic compound (OC) emission limit in Section B.I.1 of these terms and conditions shall be calculated as the sum of the OC emissions from all gasoline storage tank filling and dispensing operations at the gasoline dispensing facility (unless otherwise exempted pursuant to OAC rule 3745-31-03). This calculation shall be based on the annual gasoline throughput for the facility and the gasoline storage tank filling and dispensing operations emission factor from USEPA publication AP-42, Fifth Edition, Table 5.2-7, as follows:

- a. gasoline dispensing facility has submerged tank filling with Stage I vapor control for gasoline storage tanks: OC emission factor = 13.0 lbs OC/1000 gallons; and
- b. multiply this emission factor by the gallons of gasoline dispensed per year, and divide by 2000 lbs/ton.

(Emission rates (factors) are expressed in pounds (lbs) of organic compounds per 1000 gallons of gasoline throughput. Emission factors are for VOC as well as total organic compound (OC) emissions because the methane and ethane contents of gasoline are negligible.)

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Prep. Booth & Air Makeup Heater (K001)

Activity Description: Surface coating of miscellaneous metal and non-metal parts.

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>
Preparation Coating Test Booth for Miscellaneous metal parts and plastic parts	OAC rule 3745-21-07(G)(2)	On any day when employing photochemically reactive materials to non-metal parts, emissions shall not exceed 8 lbs/hr and 40 lbs/day organic compounds for the coatings and photochemically reactive cleanup materials used for the non-metal parts.
	OAC rule 3745-21-09(U)(2)(e)(ii)	On any day when coating metal parts, coating usage shall not exceed 10 gallons/day for the coatings used for the metal parts.
	OAC rule 3745-17-07(A)(1)	Visible particulate emissions from any stack shall not exceed 20% opacity, as a six-minute average, except as provided by rule.
	OAC rule 3745-17-11(B)(1)	Particulate emissions shall not exceed 0.551 pounds per hour.

2. Additional Terms and Conditions

- For purposes of calculating the organic compound emission rates from this emissions unit and the associated oven (P005), when coating non-metal parts, the permittee shall utilize a value of 73% as the maximum percentage of the organic compounds from this emissions unit that are emitted uncontrolled. The remaining 27% of the organic compounds employed in this emissions unit shall be considered to be the uncontrolled emissions for the associated oven. This "split" of organic compound emissions between this emissions unit and the associated oven is based upon the facility's best engineering estimate.

II. Operational Restrictions

- The permittee shall operate the water curtain whenever this emissions unit is in operation.

III. Monitoring and/or Record Keeping Requirements

1. On any day when coating metal parts, the permittee shall collect and record the following information each day for this emissions unit for the coatings used for the metal parts:
 - a. the name and identification number of each coating employed;
 - b. the volume, in gallons, of each coating employed; and
 - c. the total volume, in gallons, of all coatings employed.
2. On any day when coating non-metal parts, the permittee shall collect and record the following information each day for this emissions unit for the coatings used for the non-metal parts:
 - a. the company identification for each coating and photochemically reactive cleanup material employed;
 - b. the number of gallons of each coating and photochemically reactive cleanup material employed;
 - c. the organic compound content of each coating and photochemically reactive cleanup material, in pounds per gallon;
 - d. the total organic compound emission rate for all photochemically reactive cleanup materials, in pounds per day;
 - e. the total OC emission rate for all coatings (prior to applying the booth/oven "split"), in pounds per day;
 - f. the total OC emission rate for all coatings multiplied by the maximum percentage of the emissions associated with this emissions unit, 73%, in pounds per day;
 - g. the total OC emission rate for all coatings and photochemically reactive cleanup materials, in pounds per day (i.e., the sum of (d) and (f) above);
 - h. the total number of hours the emissions unit was in operation; and
 - i. the average hourly OC emission rate for the coatings and photochemically reactive cleanup materials, i.e., (g)/(h), in pounds per hour (average).
3. The permittee shall maintain daily records that document any time periods when the water curtain was not in service when the emissions unit was in operation.

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports which include the following information:
 - a. for any day when coating non-metal parts, an identification of each day during which the average hourly organic compound emissions from the coatings and photochemically reactive cleanup materials used for the non-metal parts exceeded 8 pounds per hour, and the actual average hourly organic compound emissions for each such day; and
 - b. for any day when coating non-metal parts, an identification of each day during which the organic compound emissions from the coatings and photochemically reactive cleanup materials used for the non-metal parts exceeded 40 pounds per day, and the actual organic compound emissions for each such day.

These quarterly deviation (excursion) reports shall be submitted in accordance with section A.1.c. of the General Terms and Conditions.

IV. Reporting Requirements (continued)

2. For any day when coating metal parts, the permittee shall notify the Ohio EPA Central District Office in writing of any daily record showing that this emissions unit employed more than the applicable maximum daily coating usage restriction of 10 gallons per day for metal parts. The notification shall include a copy of such record and shall be sent to the Ohio EPA Central District Office within 45 days after the exceedance occurs.
3. The permittee shall notify the Ohio EPA Central District Office in writing of any daily record showing that the water curtain 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 Central District Office within 30 days after the event occurs.

V. Testing Requirements

1. Hourly and Daily Emission Limitation

8 pounds per hour and 40.0 lbs OC/day when using photochemically reactive materials on non-metal parts

Applicable Compliance Method

Compliance with the hourly and daily OC limits, when using photochemically reactive materials, shall be based on the record keeping requirements specified in Section A.III.2. Formulation data or USEPA Method 24 shall be used to determine the organic compound contents of the materials.

2. Usage Limitation

10 gallons of coating per day for coating metal parts

Applicable Compliance Method

Compliance with this daily coating usage limit shall be determined through the daily recordkeeping of coating usage when coating metal parts.

3. Emission Limitation

Visible particulate emissions shall not exceed 20% opacity as a six-minute average, except as provided by rule.

Applicable Compliance Method

If required, compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).

V. Testing Requirements (continued)

4. Emission Limitation for Particulate Matter

0.551 lbs PM/hr
2.41 tons PM/yr

Applicable Compliance Method

Compliance with the hourly PM limit shall be determined through daily recordkeeping of coating usage, the PM content of each coating, and operating hours per day for the unit. Formulation data from the manufacturer's MSDS shall be used to determine the particulate contents of the coatings. Hourly emissions shall be calculated by multiplying the maximum PM content of all the coatings used in this emissions unit (2 pounds PM/gallon of coating) times the maximum coating usage in any hour (gallons/hour). If the emissions unit has run at the same rate all day, the maximum use in any hour can be calculated by dividing the total use at the end of that day by the hours the emissions unit operated during that day. Calculations shall be documented as follows:

PM emissions/hr = (lbs PM/gal of coating) x (coating usage in gal/hr) x (1-TE) x (1-CE) or,

PM emissions/hr = (lbs PM/gal of coating) x (coating usage in gal/day) / (hours of operation) x (1-TE) x (1-CE) and

annual PM emissions (tons/yr) = (lbs PM/gal of coating) x (coating usage in gal/year) x (1-TE) x (1-CE) / (2000 lbs/ton), where

TE= transfer efficiency (65% for electrostatic application), and

CE= capture efficiency (95% for water wash control).

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>
Preparation Coating Test Booth for Miscellaneous metal parts and plastic parts	None	None

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: Paint/Surface Coat Booth & Air Makeup Heater (K002)

Activity Description: Surface coating of miscellaneous metal and non-metal parts.

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>
Paint/Surface Coat Booth for Miscellaneous metal parts and plastic parts	OAC rule 3745-21-07(G)(2)	On any day when employing photochemically reactive materials to non-metal parts, emissions shall not exceed 8 lbs/hr and 40 lbs/day organic compounds for the coatings and photochemically reactive cleanup materials used for the non-metal parts.
	OAC rule 3745-21-09(U)(2)(e)(ii)	On any day when coating metal parts, coating usage shall not exceed 10 gallons/day for the coatings used for the metal parts.
	OAC rule 3745-17-07(A)(1)	Visible particulate emissions from any stack shall not exceed 20% opacity, as a six-minute average, except as provided by rule.
	OAC rule 3745-17-11(B)(1)	Particulate emissions shall not exceed 0.551 pounds per hour.

2. Additional Terms and Conditions

- For purposes of calculating the organic compound emission rates from this emissions unit and the associated oven (P006), when coating non-metal parts, the permittee shall utilize a value of 73% as the maximum percentage of the organic compounds from this emissions unit that are emitted uncontrolled. The remaining 27% of the organic compounds employed in this emissions unit shall be considered to be the uncontrolled emissions for the associated oven. This "split" of organic compound emissions between this emissions unit and the associated oven is based upon the facility's best engineering estimate.

II. Operational Restrictions

- The permittee shall operate the water curtain whenever this emissions unit is in operation.

III. Monitoring and/or Record Keeping Requirements

1. On any day when coating metal parts, the permittee shall collect and record the following information each day for this emissions unit for the coatings used for the metal parts:
 - a. the name and identification number of each coating employed;
 - b. the volume, in gallons, of each coating employed; and
 - c. the total volume, in gallons, of all coatings employed.
2. On any day when coating non-metal parts, the permittee shall collect and record the following information each day for this emissions unit for the coatings used for the non-metal parts:
 - a. the company identification for each coating and photochemically reactive cleanup material employed;
 - b. the number of gallons of each coating and photochemically reactive cleanup material employed;
 - c. the organic compound content of each coating and photochemically reactive cleanup material, in pounds per gallon;
 - d. the total organic compound emission rate for all photochemically reactive cleanup materials, in pounds per day;
 - e. the total OC emission rate for all coatings (prior to applying the booth/oven "split"), in pounds per day;
 - f. the total OC emission rate for all coatings multiplied by the maximum percentage of the emissions associated with this emissions unit, 73%, in pounds per day;
 - g. the total OC emission rate for all coatings and photochemically reactive cleanup materials, in pounds per day (i.e., the sum of (d) and (f) above);
 - h. the total number of hours the emissions unit was in operation; and
 - i. the average hourly OC emission rate for the coatings and photochemically reactive cleanup materials, i.e., (g)/(h), in pounds per hour (average).
3. The permittee shall maintain daily records that document any time periods when the water curtain was not in service when the emissions unit was in operation.

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports which include the following information:
 - a. for any day when coating non-metal parts, an identification of each day during which the average hourly organic compound emissions from the coatings and photochemically reactive cleanup materials used for the non-metal parts exceeded 8 pounds per hour, and the actual average hourly organic compound emissions for each such day; and
 - b. for any day when coating non-metal parts, an identification of each day during which the organic compound emissions from the coatings and photochemically reactive cleanup materials used for the non-metal parts exceeded 40 pounds per day, and the actual organic compound emissions for each such day.

These quarterly deviation (excursion) reports shall be submitted in accordance with section A.1.c. of the General Terms and Conditions.

IV. Reporting Requirements (continued)

2. For any day when coating metal parts, the permittee shall notify the Ohio EPA Central District Office in writing of any daily record showing that this emissions unit employed more than the applicable maximum daily coating usage restriction of 10 gallons per day for metal parts. The notification shall include a copy of such record and shall be sent to the Ohio EPA Central District Office within 45 days after the exceedance occurs.
3. The permittee shall notify the Ohio EPA Central District Office in writing of any daily record showing that the water curtain 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 Central District Office within 30 days after the event occurs.

V. Testing Requirements

1. Hourly and Daily Emission Limitation

8 pounds per hour and 40.0 lbs OC/day when using photochemically reactive materials on non-metal parts

Applicable Compliance Method

Compliance with the hourly and daily OC limits, when using photochemically reactive materials, shall be based on the record keeping requirements specified in Section A.III.2. Formulation data or USEPA Method 24 shall be used to determine the organic compound contents of the materials.

2. Usage Limitation

10 gallons of coating per day for coating metal parts

Applicable Compliance Method

Compliance with this daily coating usage limit shall be determined through the daily recordkeeping of coating usage when coating metal parts.

3. Emission Limitation

Visible particulate emissions shall not exceed 20% opacity as a six-minute average, except as provided by rule.

Applicable Compliance Method

If required, compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).

V. Testing Requirements (continued)

4. Emission Limitation for Particulate Matter

0.551 lbs PM/hr
2.41 tons PM/yr

Applicable Compliance Method

Compliance with the hourly PM limit shall be determined through daily recordkeeping of coating usage, the PM content of each coating, and operating hours per day for the unit. Formulation data from the manufacturer's MSDS shall be used to determine the particulate contents of the coatings. Hourly emissions shall be calculated by multiplying the maximum PM content of all the coatings used in this emissions unit (2 pounds PM/gallon of coating) times the maximum coating usage in any hour (gallons/hour). If the emissions unit has run at the same rate all day, the maximum use in any hour can be calculated by dividing the total use at the end of that day by the hours the emissions unit operated during that day. Calculations shall be documented as follows:

PM emissions/hr = (lbs PM/gal of coating) x (coating usage in gal/hr) x (1-TE) x (1-CE) or,

PM emissions/hr = (lbs PM/gal of coating) x (coating usage in gal/day) / (hours of operation) x (1-TE) x (1-CE) and

annual PM emissions (tons/yr) = (lbs PM/gal of coating) x (coating usage in gal/year) x (1-TE) x (1-CE) / (2000 lbs/ton), where

TE= transfer efficiency (65% for electrostatic application), and

CE= capture efficiency (95% for water wash control).

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>
Paint/Surface Coat Booth for Miscellaneous metal parts and plastic parts	None	None

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: Prep. Oven (P005)

Activity Description: Baking of miscellaneous auto body parts in a 1.65 MMBtu/hr natural gas fired oven.

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>
Preparation Oven	OAC rule 3745-21-07(G)(1)	Organic compound emissions shall not exceed 3 lbs/hr and 15 lbs/day from the drying oven.
	OAC rule 3745-17-07(A)	Visible particulate emissions from any stack shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.
	OAC rule 3745-17-10(B)(1)	Particulate emissions shall not exceed 0.020 pound per million Btu of actual heat input.

2. Additional Terms and Conditions

- 2.a For purposes of calculating the organic compound emission rates for this emissions unit and the associated spray booth (K001), when coating non-metal parts, the permittee shall utilize a value of 73% as the maximum percentage of the organic compounds employed in the spray booth that are emitted uncontrolled from the spray booth. The remaining 27% of the organic compounds employed in the spray booth shall be considered to be the uncontrolled emissions for this emissions unit. This "split" of organic compound emissions between this emissions unit and the associated spray booth is based upon the facility's best engineering estimate.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following information for the oven for each day when non-metal parts are coated:
 - a. the total potential (prior to applying the booth/oven "split") uncontrolled daily organic compound emission rate for all coatings employed in the coating operation associated with this emissions unit, multiplied by the maximum percentage of the emissions associated with this emissions unit (27%), in pounds per day;
 - b. the total number of hours this emissions unit was in operation. (This number should be the same as the number of hours the associated coating operation was in operation.); and
 - c. the average hourly organic compound emission rate, i.e., (a)/(b), in pounds per hour (average).

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports which include the following information:
 - a. for any day when coating non-metal parts, an identification of each day during which the average hourly organic compound emissions from the drying oven exceeded 3 pounds per hour, and the actual average hourly organic compound emissions for each such day; and
 - b. for any day when coating non-metal parts, an identification of each day during which the organic compound emissions from the drying oven exceeded 15 pounds per day, and the actual organic compound emissions for each such day.

V. Testing Requirements

1. Emission Limitations:
Organic compound emissions shall not exceed 3.0 lbs/hr and 15.0 lbs/day.

Applicable Compliance Method:
Compliance with the hourly and daily organic compound emission limitations shall be based on the record keeping requirements specified in Section A.III.1. Formulation data or USEPA Method 24 shall be used to determine the organic compound contents of the materials.
2. Emission Limitation:
Visible particulate emissions shall not exceed 20% opacity as a six-minute average, except as provided by rule.

Applicable Compliance Method:
If required, compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).
3. Emission Limitation:
Particulate emissions shall not exceed 0.020 lb/mmBtu actual heat input.

Applicable Compliance Method:
Compliance with this emission limitation shall be demonstrated by multiplying the maximum hourly gas burning capacity of the emissions unit (1,650 ft³/hr) by the AP-42 emission factor from "Compilation of Air Pollutant Emission Factors", Table 1.4-2 (7/98) for natural gas (1.9 lbs particulate/mmft³), and dividing by the maximum hourly heat input capacity of the emissions unit (1.65 mm Btu/hr). If required, the permittee shall demonstrate compliance with this emission limitation in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5 and the procedures specified in OAC rule 3745-17-03(B)(9).

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>
Preparation Oven	OAC rule 3745-31-05 PTI #01-6700	Organic compound emissions shall not exceed 2.80 tons per year; Nitrogen oxides emissions shall not exceed 0.165 pound per hour and 0.723 ton per year.

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following information each month for the purpose of determining annual organic compound emissions from drying parts in this emissions unit:
- a. the number of gallons of each coating employed in the associated coating booth, K001;
 - b. the organic compound content of each coating applied in the associated coating booth, K001, in pounds per gallon; and
 - c. the total potential (prior to applying the booth/oven "split") uncontrolled monthly organic compound emission rate for all coatings employed in the coating operation associated with this emissions unit (K001), multiplied by the maximum percentage of the emissions associated with this emissions unit (27%), in pounds per month; or
 - d. the permittee may sum the daily emissions calculated from this emissions unit, as per Section A.III.1.a, at the end of each month.

IV. Reporting Requirements

1. The permittee shall submit annual reports which specifies the total organic compound and nitrogen oxides emissions from this emissions unit for the previous calendar year. The reports shall be submitted by January 31 of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual Fee Emission Report.

V. Testing Requirements

1. Emission Limitation:
Organic compound emissions shall not exceed 2.80 tons per year.

Applicable Compliance Method:

Compliance with this annual organic compound emission limitation shall be determined based upon the records required pursuant to Section B.III. Monthly emission calculations shall be summed at the end of each year to demonstrate compliance with this emission limitation.

2. Emission Limitations:
Nitrogen oxides emissions shall not exceed 0.165 pound per hour and 0.723 ton per year.

Applicable Compliance Method:

These emission limitations reflect the emissions unit's potential to emit for this pollutant. The emission limitations were established by multiplying the maximum hourly (1,650 ft³/hour) and annual (14.454 mmft³) natural gas usage rates by the emission factor for nitrogen oxides (100 lbs of NO_x/mm ft³) from "Compilation of Air Pollutant Emission Factors", Table 1.4-1 dated 2/98.

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Paint/Surface Coat Oven (P006)

Activity Description: Baking of miscellaneous auto body parts in a 1.65 MMBtu/hr natural gas fired oven.

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>
Paint/Surface Coat Oven	OAC rule 3745-21-07(G)(1)	Organic compound emissions shall not exceed 3 lbs/hr and 15 lbs/day from the drying oven.
	OAC rule 3745-17-07(A)	Visible particulate emissions from any stack shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.
	OAC rule 3745-17-10(B)(1)	Particulate emissions shall not exceed 0.020 pound per million Btu of actual heat input.

2. Additional Terms and Conditions

- 2.a For purposes of calculating the organic compound emission rates for this emissions unit and the associated spray booth (K002), when coating non-metal parts, the permittee shall utilize a value of 73% as the maximum percentage of the organic compounds employed in the spray booth that are emitted uncontrolled from the spray booth. The remaining 27% of the organic compounds employed in the spray booth shall be considered to be the uncontrolled emissions for this emissions unit. This "split" of organic compound emissions between this emissions unit and the associated spray booth is based upon the facility's best engineering estimate.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following information for the oven for each day when non-metal parts are coated:
 - a. the total potential (prior to applying the booth/oven "split") uncontrolled daily organic compound emission rate for all coatings employed in the coating operation associated with this emissions unit, multiplied by the maximum percentage of the emissions associated with this emissions unit (27%), in pounds per day;
 - b. the total number of hours this emissions unit was in operation. (This number should be the same as the number of hours the associated coating operation was in operation.); and
 - c. the average hourly organic compound emission rate, i.e., (a)/(b), in pounds per hour (average).

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports which include the following information:
 - a. for any day when coating non-metal parts, an identification of each day during which the average hourly organic compound emissions from the drying oven exceeded 3 pounds per hour, and the actual average hourly organic compound emissions for each such day; and
 - b. for any day when coating non-metal parts, an identification of each day during which the organic compound emissions from the drying oven exceeded 15 pounds per day, and the actual organic compound emissions for each such day.

V. Testing Requirements

1. Emission Limitations:
Organic compound emissions shall not exceed 3.0 lbs/hr and 15.0 lbs/day.

Applicable Compliance Method:
Compliance with the hourly and daily organic compound emission limitations shall be based on the record keeping requirements specified in Section A.III.1. Formulation data or USEPA Method 24 shall be used to determine the organic compound contents of the materials.
2. Emission Limitation:
Visible particulate emissions shall not exceed 20% opacity as a six-minute average, except as provided by rule.

Applicable Compliance Method:
If required, compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).
3. Emission Limitation:
Particulate emissions shall not exceed 0.020 lb/mmBtu actual heat input.

Applicable Compliance Method:
Compliance with this emission limitation shall be demonstrated by multiplying the maximum hourly gas burning capacity of the emissions unit (1,650 ft³/hr) by the AP-42 emission factor from "Compilation of Air Pollutant Emission Factors", Table 1.4-2 (7/98) for natural gas (1.9 lbs particulate/mmft³), and dividing by the maximum hourly heat input capacity of the emissions unit (1.65 mm Btu/hr). If required, the permittee shall demonstrate compliance with this emission limitation in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5 and the procedures specified in OAC rule 3745-17-03(B)(9).

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>
Paint/Surface Coat Oven	OAC rule 3745-31-05 PTI #01-6700	Organic compound emissions shall not exceed 2.80 tons per year; Nitrogen oxides emissions shall not exceed 0.165 pound per hour and 0.723 ton per year.

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following information each month for the purpose of determining annual organic compound emissions from drying parts in this emissions unit:
 - a. the number of gallons of each coating employed in the associated coating booth, K002;
 - b. the organic compound content of each coating applied in the associated coating booth, K002, in pounds per gallon; and
 - c. the total potential (prior to applying the booth/oven "split") uncontrolled monthly organic compound emission rate for all coatings employed in the coating operation associated with this emissions unit (K002), multiplied by the maximum percentage of the emissions associated with this emissions unit (27%), in pounds per month; or
 - d. the permittee may sum the daily emissions calculated from this emissions unit, as per Section A.III.1.a, at the end of each month.

IV. Reporting Requirements

1. The permittee shall submit annual reports which specifies the total organic compound and nitrogen oxides emissions from this emissions unit for the previous calendar year. The reports shall be submitted by January 31 of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual Fee Emission Report.

V. Testing Requirements

1. Emission Limitation:
Organic compound emissions shall not exceed 2.80 tons per year.

Applicable Compliance Method:

Compliance with this annual organic compound emission limitation shall be determined based upon the records required pursuant to Section B.III. Monthly emission calculations shall be summed at the end of each year to demonstrate compliance with this emission limitation.

2. Emission Limitations:
Nitrogen oxides emissions shall not exceed 0.165 pound per hour and 0.723 ton per year.

Applicable Compliance Method:

These emission limitations reflect the emissions unit's potential to emit for this pollutant. The emission limitations were established by multiplying the maximum hourly (1,650 ft³/hour) and annual (14.454 mmft³) natural gas usage rates by the emission factor for nitrogen oxides (100 lbs of NO_x/mm ft³) from "Compilation of Air Pollutant Emission Factors", Table 1.4-1 dated 2/98.

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Tank 1 (T-1) located at tank farm #5A (Z028)

Activity Description: Tank 1 gasoline routed to dynamometer rooms in Bldg. #5, Rm. 101, 103, 105, 107 for engine testing.

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>
6,000-gallon gasoline storage tank; Tank 1 (T-1) located at tank farm #5A	OAC rule 3745-21-09(L)	Exempt from 3745-21-09(L)(1) due to a tank capacity of less than 40,000 gallons

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

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>
6,000-gallon gasoline storage tank; Tank 1 (T-1) located at tank farm #5A	OAC rule 3745-31-05 PTI 01-6701	This emissions unit shall be equipped with a submerged fill pipe.

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: Tank 2 (T-2) located at tank farm #5A (Z029)

Activity Description: Tank 2 gasoline routed to dynamometer rooms in Bldg. #5, Rm. 101, 103, 105, 107 for engine testing.

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>
2,500-gallon gasoline storage tank; Tank 2 (T-2) located at tank farm #5A	OAC rule 3745-21-09(L)	Exempt from 3745-21-09(L)(1) due to a tank capacity of less than 40,000 gallons

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

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>
2,500-gallon gasoline storage tank; Tank 2 (T-2) located at tank farm #5A	OAC rule 3745-31-05 PTI 01-6701	This emissions unit shall be equipped with a submerged fill pipe.

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: Tank 3 (T-3) located at tank farm #5A (Z030)

Activity Description: Tank 3 gasoline routed to dynamometer rooms in Bldg. #5, Rm. 101, 103, 105, 107 for engine testing.

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>
2,500-gallon gasoline storage tank; Tank 3 (T-3) located at tank farm #5A	OAC rule 3745-21-09(L)	Exempt from 3745-21-09(L)(1) due to a tank capacity of less than 40,000 gallons

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

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>
2,500-gallon gasoline storage tank; Tank 3 (T-3) located at tank farm #5A	OAC rule 3745-31-05 PTI 01-6701	This emissions unit shall be equipped with a submerged fill pipe.

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

THIS IS THE LAST PAGE OF THE PERMIT
