



State of Ohio Environmental Protection Agency

**RE: FINAL PERMIT TO INSTALL
UNION COUNTY**

CERTIFIED MAIL

Street Address:

122 S. Front Street

Lazarus Gov. Center TELE: (614) 644-3020 FAX: (614) 644-2329

Mailing Address:

Lazarus Gov. Center
P.O. Box 1049

Application No: 01-01345

Fac ID: 0180000156

DATE: 2/9/2006

Honda R and D Americas
Harry Gulley
21001 St Rt 739
Raymond, OH 43067

Enclosed please find an Ohio EPA Permit to Install which will allow you to install the described source(s) in a manner indicated in the permit. Because this permit contains several conditions and restrictions, I urge you to read it carefully.

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

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

Environmental Review Appeals Commission
309 South Fourth Street, Room 222
Columbus, Ohio 43215

Sincerely,

Michael W. Ahern, Manager
Permit Issuance and Data Management Section
Division of Air Pollution Control

CC: USEPA

CDO



**Permit To Install
Terms and Conditions**

**Issue Date: 2/9/2006
Effective Date: 2/9/2006**

FINAL PERMIT TO INSTALL 01-01345

Application Number: 01-01345
Facility ID: 0180000156
Permit Fee: **\$600**
Name of Facility: Honda R and D Americas
Person to Contact: Harry Gulley
Address: 21001 St Rt 739
Raymond, OH 43067

Location of proposed air contaminant source(s) [emissions unit(s)]:
**21001 St Rt 739
Raymond, Ohio**

Description of proposed emissions unit(s):
3 new dynamometers.

The above named entity is hereby granted a Permit to Install for the above described emissions unit(s) pursuant to Chapter 3745-31 of the Ohio Administrative Code. Issuance of this permit does not constitute expressed or implied approval or agreement that, if constructed or modified in accordance with the plans included in the application, the above described emissions unit(s) of environmental pollutants will operate in compliance with applicable State and Federal laws and regulations, and does not constitute expressed or implied assurance that if constructed or modified in accordance with those plans and specifications, the above described emissions unit(s) of pollutants will be granted the necessary permits to operate (air) or NPDES permits as applicable.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

Director

Part I - GENERAL TERMS AND CONDITIONS

A. State and Federally Enforceable Permit-To-Install General Terms and Conditions

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, but not be limited to, all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. Such records may be maintained in computerized form.
- 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 made to

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the appropriate Ohio EPA District Office or local air agency. The written reports shall be submitted (i.e., postmarked) quarterly, by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. See B.9 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 (i.e., postmarked) to the appropriate Ohio EPA District Office or local air agency every six months, by January 31 and July 31 of each year for the previous six calendar months. 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. If this permit is for an emissions unit located at a Title V facility, then 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.
- d. The permittee shall report actual emissions pursuant to OAC Chapter 3745-78 for the purpose of collecting Air Pollution Control Fees.

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 shall be submitted pursuant to 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 emission unit(s) that is (are) served by such control system(s).

3. Risk Management Plans

If the permittee is required to 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"), the permittee shall comply with the requirement to register such a plan.

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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 re-issuance, or modification
- 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, 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 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

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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.

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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. The permittee shall pay all applicable permit-to-install fees within 30 days after the issuance of any permit-to-install. The permittee shall pay all applicable permit-to-operate fees within thirty days of the issuance of the invoice.

8. Federal and State Enforceability

Only those terms and conditions designated in this permit as federally enforceable, that are required under the Act, or any 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 and the State and by citizens (to the extent allowed by section 304 of the Act) under the Act. All other terms and conditions of this permit shall not be federally enforceable and shall be enforceable under State law only.

9. Compliance Requirements

- a. Any document (including reports) required to be submitted and required by a federally applicable requirement in this 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 ORC section 3704.08.
 - iii. Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit.

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- 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.

10. Permit-To-Operate Application

- a. If the permittee is required to apply for a Title V permit pursuant to OAC Chapter 3745-77, the permittee shall submit a complete Title V permit application or a complete Title V permit modification application within twelve (12) months after commencing operation of the emissions units covered by this permit. However, if the proposed new or modified source(s) would be prohibited by the terms and conditions of an existing Title V permit, a Title V permit modification must be obtained before the operation of such new or modified source(s) pursuant to OAC rule 3745-77-04(D) and OAC rule 3745-77-08(C)(3)(d).
- b. If the permittee is required to apply for permit(s) pursuant to OAC Chapter 3745-35, the source(s) identified in this permit is (are) permitted to operate for a period of up to one year from the date the source(s) commenced operation. Permission to operate is granted only if the facility complies with all requirements contained in this permit and all applicable air pollution laws, regulations, and policies. Pursuant to OAC Chapter 3745-35, the permittee shall submit a complete operating permit application within ninety (90) days after commencing operation of the source(s) covered by this permit.

11. Best Available Technology

As specified in OAC Rule 3745-31-05, all new sources must employ Best Available Technology (BAT). Compliance with the terms and conditions of this permit will fulfill this requirement.

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12. 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.

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13. Permit-To-Install

A permit-to-install must be obtained pursuant to OAC Chapter 3745-31 prior to "installation" of "any air contaminant source" as defined in OAC rule 3745-31-01, or "modification", as defined in OAC rule 3745-31-01, of any emissions unit included in this permit.

B. State Only Enforceable Permit-To-Install General Terms and Conditions

1. Compliance Requirements

The emissions unit(s) identified in this Permit shall remain in full compliance with all applicable State laws and regulations and the terms and conditions of this permit.

2. Reporting 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 (i.e., postmarked) quarterly, 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. Permit Transfers

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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.

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4. Authorization To Install or Modify

If applicable, authorization to install or modify any new or existing emissions unit included in this permit shall terminate within eighteen months of the effective date of the permit if the owner or operator has not undertaken a continuing program of installation or modification or has not entered into a binding contractual obligation to undertake and complete within a reasonable time a continuing program of installation or modification. This deadline may be extended by up to 12 months if application is made to the Director within a reasonable time before the termination date and the party shows good cause for any such extension.

5. Construction of New Sources(s)

This permit does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. This permit does not constitute expressed or implied assurance that the proposed facility has been constructed in accordance with the application and terms and conditions of this permit. The action of beginning and/or completing construction prior to obtaining the Director's approval constitutes a violation of OAC rule 3745-31-02. Furthermore, issuance of this permit does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. Issuance of this permit is not to be construed as a waiver of any rights that the Ohio Environmental Protection Agency (or other persons) may have against the applicant for starting construction prior to the effective date of the permit. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed facilities cannot meet the requirements of this permit or cannot meet applicable standards.

6. Public Disclosure

The facility is hereby notified that this permit, and all agency records concerning the operation of this permitted source, are subject to public disclosure in accordance with OAC rule 3745-49-03.

7. Applicability

This Permit to Install is applicable only to the emissions unit(s) identified in the Permit To Install. Separate application must be made to the Director for the installation or modification of any other emissions unit(s).

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8. Construction Compliance Certification

If applicable, the applicant shall provide Ohio EPA with a written certification (see enclosed form if applicable) that the facility has been constructed in accordance with the permit-to-install application and the terms and conditions of the permit-to-install. The certification shall be provided to Ohio EPA upon completion of construction but prior to startup of the source.

9. 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., postmarked), by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters.

C. Permit-To-Install Summary of Allowable Emissions

The following information summarizes the total allowable emissions, by pollutant, based on the individual allowable emissions of each air contaminant source identified in this permit.

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SUMMARY (for informational purposes only)
TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS

<u>Pollutant</u>	<u>Tons Per Year</u>
CO	45.62
OC	7.44
SO2	1.36
NOx	25.49
PE	1.66

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PTI Application: 01-01215
Issue

Facility ID: 0180000156

Emissions Unit ID: B030

Part II - FACILITY SPECIFIC TERMS AND CONDITIONS

A. State and Federally Enforceable Permit To Install Facility Specific Terms and Conditions

None

B. State Only Enforceable Permit To Install Facility Specific Terms and Conditions

None

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

- 1. The specific operations(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 specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	
B030 - One Burke Porter 2WD 48-inch compact dynamometer with one movable axle	OAC rule 3745-31-05(A)(3)	OAC rule 3745-21-08(B)
		OAC rule 3745-23-06(B)
		OAC rule 3745-18-06
	OAC rule 3745-17-07(A)	
	OAC rule 3745-17-11(B)(5)	

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Applicable Emissions
Limitations/Control
Measures

Emissions from the combustion of gasoline in this emissions unit shall not exceed the following limitations:

4.49 lbs of carbon monoxide (CO)/hr
19.7 tons of CO/yr

1.48 lbs of organic compounds (OC)/hr
6.48 tons of OC/yr

0.05 lb of sulfur dioxide (SO₂)/hr
0.22 ton of SO₂/yr

0.72 lbs of nitrogen oxides (NO_x)/hr
3.15 tons of NO_x/yr;

0.06 lb of particulate emissions (PE) /hr
0.26 Tons of (PE) /yr

The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07(A), 3745-23-06(B), and 3745-21-08(B).

See A.II.2.e below

The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

See A.I.2.a below.

See A.I.2.b below.

None, exempt pursuant to OAC rule 3745-18-06(B).

2. Additional Terms and Conditions

- 2.a** The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3).

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

- 2.b** The permittee has satisfied the "latest available control techniques and operating practices" required pursuant to OAC rule 3745-23-06(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in this Permit to Install.

On February 15, 2005, OAC rule 3745-23-06 was rescinded and is no longer part of State regulations. However, that rule revision has not yet been submitted to the U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the U.S. EPA approves the revision the SIP, the requirement to satisfy the "latest available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio.

- 2.c** The CO, PE, NO_x, SO₂, and OC emission limitations specified in Section A.I.1. reflect the emission unit's potential to emit for these pollutants. Therefore, it is not necessary to develop additional monitoring, recordkeeping, and/or reporting requirements to ensure compliance with these emission limitations.

- 2.d** 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.e** 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)(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.

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall perform monthly 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.

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

If visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item (d) above or continue the daily check until the incident has ended. The observer may indicate that the visible emission incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible emissions were representative of normal operations, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible emissions.

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Emissions Unit ID: B030

No earlier than 6 months from issuance of this permit, the permittee may modify the frequency of the visible particulate emissions checks to quarterly if no visible emissions have been observed in the previous 6 months. Such modified visible particulate emissions check frequencies would not be considered a minor or significant modification that would be subject to the Title V permit modification requirements in paragraphs (C)(1) and (C)(1) of OAC rule 3745-77-08.

IV. Reporting Requirements

1. The permittee shall submit annual reports that specify the total emissions of PE, SO₂, NO_x, OC, and CO from this emissions unit for the previous calendar year. The reports shall be submitted by April 15 of each year and may be satisfied by including this emissions unit in the submission of the annual Fee Emission Report.
2. The permittee shall submit semiannual written reports which (a) identify all days during which any visible particulate emissions were observed from any stacks serving the uncontrolled dynamometers and (b) describe any corrective actions taken to eliminate the 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.1 of this permit shall be determined in accordance with the following methods:

- a. Emission Limitation:

4.49 lbs of CO/hr and 19.7 tons of CO/yr

Applicable Compliance Method:

The maximum uncontrolled hourly carbon monoxide emissions were established using an emission factor of 0.374 lb Co/gal of gasoline and a maximum gasoline usage of 10 gallons per hour (this emissions factor was derived from the average dynamometer testing results, from testing conducted on 06/01 on an uncontrolled V6 engine at maximum operating conditions on dynamometer B012, and includes a 20% engineering safety factor). The annual carbon monoxide emission limitation was established by multiplying the hourly emission rate (4.49 lbs/hr) by 8760 hours per year.

Uncontrolled emissions shall be calculated as follows:

hourly emissions: $0.374 \text{ lbs. CO/gal} \times 10 \text{ gal/hr} \times (\text{safety factor } 20\%) 1.2 = 4.49$
lbs
CO/hr.

annual emissions: $0.374 \text{ lb CO/gal} \times 10 \text{ gal/hr} \times 8760 \text{ hrs/yr} \times 1 \text{ ton/2000 lbs} \times$
(safety factor 20%) $1.2 = 19.7 \text{ TPY CO}$.

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.

- b. Emission Limitations:
1.48 lbs of OC/hr and 6.48 tons of OC/yr

Applicable Compliance Method:

Compliance with the hourly emission limitation may be demonstrated by multiplying an emission factor of 148 lbs of OC/1000 gallon of gasoline burned (U.S. EPA's Factor Information Retrieval Data System - FIRE 6.23, SCC number 20400401 for reciprocating gasoline engines) by the emissions unit's maximum hourly gasoline usage rate (10 gallons/hr).

The annual emission limitation was established by multiplying the hourly emission limitation (1.48 lb of OC/hr) by 8760 hrs/yr and dividing by 2000 lbs/ton. Compliance with this emission limitation may be assumed provided that the permittee complies with the hourly PE emission limitation.

If required, the permittee shall demonstrate compliance with the hourly emission limitation through emission tests performed in accordance with the appropriate approved method(s) found in 40 CFR Part 60, Appendix A, Methods 1 through 4 and 25 or 25A. Alternative EPA approved test methods may be used with prior approval from the Ohio EPA.

- c. Emission Limitations:
0.05 lb of SO₂/hr and 0.22 ton of SO₂/yr

Applicable Compliance Method:

Compliance with the hourly emission limitation may be demonstrated by multiplying an emission factor of 5.31 lbs SO₂/1000 gallons of gasoline burned (U.S. EPA's Factor Information Retrieval Data System - FIRE 6.23, SCC number 20400401 for reciprocating gasoline engines) by the emissions unit's maximum hourly gasoline usage rate (10 gallons/hr).

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The annual emission limitation was established by multiplying the hourly emission limitation (0.05 lbs of SO₂/hr) by 8760 hrs/yr and dividing by 2000 lbs/ton. Compliance with this emission limitation may be assumed provided that the permittee complies with the hourly SO₂ emission limitation.

If required, the permittee shall demonstrate compliance with the hourly emission limitations through emission tests performed in accordance with the appropriate approved method(s) found in 40 CFR Part 60, Appendix A, Methods 1 through 4 and 6. Alternative EPA approved test methods may be used with prior approval from the Ohio EPA.

- d. Emission Limitations:
0.72 lb of NO_x/hr and 3.15 ton of NO_x/yr

The maximum uncontrolled hourly NO_x emissions were established using an emission factor of 0.06 lb NO_x/hr and a maximum gasoline usage of 10 gallons per hour (this emissions factor was derived from the average results, from testing conducted on 06/01 on an uncontrolled V6 engine at maximum operating conditions on dynamometer B012, and includes a 20% engineering safety factor). The annual NO_x emission limitation was established by multiplying the hourly emission rate (0.06 lbs/hr) by 8760 hours per year.

Uncontrolled emissions shall be calculated as follows:

hourly emissions: 0.06 lb NO_x/gal x 10 gal/hr x (safety factor 20%) 1.2 = 0.72 lb NO_x/hr.

annual emissions: 0.06 lb NO_x/gal x 10 gal/hr x 8760 hrs/yr x 1 ton/2000 lbs x (safety factor 20%) 1.2 = 3.15 TPY NO_x.

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

- e. Emission Limitations:
0.06 lb of PM/hr and 0.26 ton of PM/yr

Applicable Compliance Method:

Compliance with the hourly emission limitation may be demonstrated by multiplying an emission factor of 6.47 lbs of PM/1000 gallons of gasoline burned (U.S. EPA's Factor Information Retrieval Data System - FIRE 6.23, SCC number 20400401 for reciprocating gasoline engines) by the emissions unit's maximum hourly gasoline usage rate (10 gallons/hr).

The annual emission limitation was established by multiplying the hourly emission limitation (0.06 lb of PM/hr) by 8760 hrs/yr and dividing by 2000

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lbs/ton. Compliance with this emission limitation may be assumed provided that the permittee complies with the hourly OC emission limitation.

If required, the permittee shall demonstrate compliance with the hourly emission limitations through emission tests performed in accordance with the appropriate testing methods found in 40 CFR Part 60, Appendix A, Methods 1 through 5. Alternative EPA approved test methods may be used with prior approval from the Ohio EPA.

VI. Miscellaneous Requirements

None

B. State Only Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(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 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>
B030 - One Burke Porter 2WD 48-inch compact dynamometer with one movable axle	None	None

2. Additional Terms and Conditions

2.a None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

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<p>Applicable Emissions <u>Limitations/Control</u> <u>Measures</u></p>	<p>exceed 20% opacity as a 6-minute average, except as provided by rule.</p>
<p>Emissions from the combustion of gasoline in this emissions unit shall not exceed the following limitations:</p>	<p>The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).</p>
<p>2.96 lbs of carbon monoxide (CO)/hr 12.96 tons of CO/yr</p>	<p>See A.I.2.a below. See A.I.2.b below.</p>
<p>0.11 lb of organic compounds (OC)/hr 0.48 ton of OC/yr</p>	<p>None, exempt pursuant to OAC rule 3745-18-06(B).</p>
<p>0.13 lb of sulfur dioxide (SO₂)/hr 0.57 ton of SO₂/yr;</p>	<p>See Sections I.2.e</p>
<p>2.55 lbs of nitrogen oxides (NO_x)/hr 11.17 tons of NO_x/yr;</p>	
<p>0.16 lb of particulate emissions (PE) /hr 0.70 ton of PE/yr;</p>	
<p>The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07(A), 3745-23-06(B), and 3745-21-08(B).</p>	
<p>Visible particulate emissions shall not</p>	

2. Additional Terms and Conditions

- 2.a** The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3).

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

- 2.b** The permittee has satisfied the "latest available control techniques and operating practices" required pursuant to OAC rule 3745-23-06(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in this Permit to Install.

On February 15, 2005, OAC rule 3745-23-06 was rescinded and is no longer part of State regulations. However, that rule revision has not yet been submitted to the U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the U.S. EPA approves the revision the SIP, the requirement to satisfy the "latest available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio.

- 2.c** The PE, NO_x, and SO₂ emission limitations specified in Section A.I.1. reflect the emission unit's potential to emit for these pollutants. Therefore, it is not necessary to develop additional monitoring, recordkeeping, and/or reporting requirements to ensure compliance with these emission limitations.
- 2.d** The CO and OC emission limitations specified in Section A.I.1. reflect the emission unit's potential to emit for this pollutant as vented to a thermal incinerator. Therefore, it is not necessary to develop additional monitoring, recordkeeping, and/or reporting requirements to ensure compliance with this emission limitation.
- 2.e** In accordance with 40 CFR 63.9290(d)(4), this emissions unit is excluded from the requirements of 40 CFR Part 63, Subpart P P P P P because it is not

considered a "new source" or a "reconstructed" source.

II. Operational Restrictions

1. 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 Recordkeeping 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. The units shall be in degrees Fahrenheit. The monitoring and recording devices shall be capable of accurately measuring the desired parameter. The temperature monitor and recorder shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, with any modifications deemed necessary by the permittee.
2. The permittee shall collect and record the following information each day for the thermal incinerator:
 - 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 quarterly deviation (excursion) reports that identify all 3-hour blocks of time during which the average combustion temperature within the thermal incinerator while the unit is in operation did not comply with the temperature limitation specified above. The reports shall be submitted in accordance with the General Terms and Conditions of this permit.
2. The permittee shall submit annual reports that specify the total emissions of PE, SO₂, NO_x, OC, and CO from this emissions unit for the previous calendar year. The reports shall be submitted by April 15 of each year and may be satisfied by including this emissions unit in the submission of the annual Fee Emission Report.

V. Testing Requirements

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

- a. Emission Limitation:
2.96 lbs of CO/hr and 12.96 tons of CO/yr

Applicable Compliance Method for Emission Unit B031 & B032:

Compliance with the hourly emission limitation may be demonstrated by multiplying an emission factor of 3940 lbs of CO/1000 gallon of gasoline burned (U.S. EPA's Factor Information Retrieval Data System - FIRE 6.23, SCC Number 20400401 for recipricating gasoline engines) by the emissions unit's maximum hourly gasoline usage rate (25 gallons/hr) then multiplying by the capture efficiency (99% capture efficiency), then by multiplying by the control efficiency (1 - 0.98 control efficiency).

The annual emission limitation was established by multiplying the hourly emission limitation (2.96 lbs of CO/hr) by 8,760 hrs/yr and dividing by 2000 lbs/ton. Compliance with this limitation may be assumed provided that the permittee complies with the hourly CO emission limitation.

If required, the permittee shall demonstrate compliance with the hourly emission limitations through emission tests performed in accordance with the appropriate testing methods found in 40 CFR Part 60, Appendix A, Methods 1 through 4 and 10. Alternative EPA approved test methods may be used with prior approval from the Ohio EPA.

- b. Emission Limitations:
0.11 lb of OC/hr
The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:
 - i. The emission testing shall be conducted within 6 months after start-up.
 - ii. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate for OC.
 - iii. The following test methods shall be employed to demonstrate compliance with the allowable mass emission rates: Test Method 1 through 4 and 25

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or 25A. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

- iv. The tests shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency.
- v. Not later than 30 days prior to the proposed test dates, the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the times and dates of the tests, and the persons who will be conducting the tests. Failure to submit such notification for review and approval prior to the tests may result in the Ohio EPA District Office's or local air agency's refusal to accept the results of the emission tests.
- vi. Personnel from the appropriate Ohio EPA District Office or local air agency shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.
- vii. A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the appropriate Ohio EPA District Office or local air agency.

- c. Emission Limitations:
0.48 ton of OC/yr

Applicable Compliance Method:

The annual emission limitation was established by multiplying the hourly emission limitation (0.11 lbs of OC/hr) by 8760 hrs/yr and dividing by 2000 lbs/ton. Compliance with this emission limitation may be assumed provided that the permittee complies with the hourly PE emission limitation.

- d. Emission Limitations:
0.13 lb of SO₂/hr and 0.57 ton of SO₂/yr

Applicable Compliance Method:

Compliance with the hourly emission limitation may be demonstrated by

multiplying an emission factor of 5.31 lbs SO₂/1000 gallons of gasoline burned (U.S. EPA's Factor Information Retrieval Data System - FIRE 6.23, SCC number 20400401 for reciprocating gasoline engines) by the emissions unit's maximum hourly gasoline usage rate (25 gallons/hr).

The annual emission limitation was established by multiplying the hourly emission limitation (0.13 lb of SO₂/hr) by 8760 hrs/yr and dividing by 2000 lbs/ton. Compliance with this emission limitation may be assumed provided that the permittee complies with the hourly SO₂ emission limitation.

If required, the permittee shall demonstrate compliance with the hourly emission limitations through emission tests performed in accordance with the appropriate approved method(s) found in 40 CFR Part 60, Appendix A, Methods 1 through 4 and 6. Alternative EPA approved test methods may be used with prior approval from the Ohio EPA.

- e. Emission Limitations:
2.55 lbs of NO_x/hr and 11.17 tons of NO_x/yr

Applicable Compliance Method:

Compliance with the hourly emission limitation may be demonstrated by multiplying an emission factor of 102 lbs NO_x/1000 gallons of gasoline burned (U.S. EPA's Factor Information Retrieval Data System - FIRE 6.23, SCC number 20400401 for reciprocating gasoline engines) by the emissions unit's maximum hourly gasoline usage rate (25 gallons/hr).

The annual emission limitation was established by multiplying the hourly emission limitation (2.55 lbs of NO_x/hr) by 8760 hrs/yr and dividing by 2000 lbs/ton. Compliance with this emission limitation may be assumed provided that the permittee complies with the hourly NO_x emission limitation.

If required, the permittee shall demonstrate compliance with the hourly emission limitations through emission tests performed in accordance with the appropriate testing methods found in 40 CFR Part 60, Appendix A, Methods 1 through 4 and 7 or 7E. Alternative EPA approved test methods may be used with prior approval from the Ohio EPA.

- f. Emission Limitations:
0.16 lb of PM/hr and 0.70 ton of PM/yr

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Facility ID: 0180000156

Emissions Unit ID: B031

Applicable Compliance Method:

Compliance with the hourly emission limitation may be demonstrated by multiplying an emission factor of 6.47 lbs of PM/1000 gallons of gasoline burned (U.S. EPA's Factor Information Retrieval Data System - FIRE 6.23, SCC number 20400401 for reciprocating gasoline engines) by the emissions unit's maximum hourly gasoline usage rate (25 gallons/hr).

The annual emission limitation was established by multiplying the hourly emission limitation (0.16 lbs of PM/hr) by 8760 hrs/yr and dividing by 2000 lbs/ton. Compliance with this emission limitation may be assumed provided that the permittee complies with the hourly OC emission limitation.

If required, the permittee shall demonstrate compliance with the hourly emission limitations through emission tests performed in accordance with the appropriate testing methods found in 40 CFR Part 60, Appendix A, Methods 1 through 5. Alternative EPA approved test methods may be used with prior approval from the Ohio EPA.

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

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).

VI. Miscellaneous Requirements

None

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B. State Only Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(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 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>
B031 - Durability Dynamometer 13-121 (One AVL Cradle Mounted Dyno With Hydrostatic Option: Model: DynoExact APA 302/10 PO)	None	None

2. Additional Terms and Conditions

2.a None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

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VI. Miscellaneous Requirements

None

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Emissions Unit ID: B032

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(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 specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	
B032 - Performance Dynamometer 5-103 (One AVL Cradle Mounted Dyno with Hydrostatic Option: Model DynoExact APA 302/10 PO)	OAC rule 3745-31-05(A)(3)	OAC rule 3745-17-07(A)
		OAC rule 3745-17-11(B)(5)
		OAC rule 3745-21-08(B)
		OAC rule 3745-23-06(B)
		OAC rule 3745-18-06
		40 CFR 63, Subpart P P P P P

Honda R and D Americas
PTI Application: 01-01215
Issue

Facility ID: 0180000156

Emissions Unit ID: B032

<u>Applicable Emissions Limitations/Control Measures</u>	
Emissions from the combustion of gasoline in this emissions unit shall not exceed the following limitations:	less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3). See A.I.2.a below. See A.I.2.b below. None, exempt pursuant to OAC rule 3745-18-06(B).
2.96 lbs of carbon monoxide (CO)/hr 12.96 tons of CO/yr	See Sections I.2.e
0.11 lb of organic compounds (OC)/hr 0.48 ton of OC/yr	
0.13 lb of sulfur dioxide (SO ₂)/hr 0.57 ton of SO ₂ /yr;	
2.55 lbs of nitrogen oxides (NO _x)/hr 11.17 tons of NO _x /yr;	
0.16 lb of particulate emissions (PE) /hr 0.70 ton of PE/yr;	
The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07(A), 3745-23-06(B), and 3745-21-08(B).	
Visible particulate emissions shall not exceed 20% opacity as a 6-minute average, except as provided by rule.	
The emission limitation specified by this rule is	

2. Additional Terms and Conditions

- 2.a** The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3).

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

- 2.b** The permittee has satisfied the "latest available control techniques and operating practices" required pursuant to OAC rule 3745-23-06(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in this Permit to Install.

On February 15, 2005, OAC rule 3745-23-06 was rescinded and is no longer part of State regulations. However, that rule revision has not yet been submitted to the U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the U.S. EPA approves the revision the SIP, the requirement to satisfy the "latest available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio.

- 2.c** The PE, NO_x, and SO₂ emission limitations specified in Section A.I.1. reflect the emission unit's potential to emit for these pollutants. Therefore, it is not necessary to develop additional monitoring, recordkeeping, and/or reporting requirements to ensure compliance with these emission limitations.
- 2.d** The CO & OC emission limitations specified in Section A.I.1. reflect the emission unit's potential to emit for this pollutant as vented to a thermal incinerator. Therefore, it is not necessary to develop additional monitoring, recordkeeping, and/or reporting requirements to ensure compliance with this emission limitation.
- 2.e** In accordance with 40 CFR 63.9290(d)(4), this emissions unit is excluded from the requirements of 40 CFR Part 63, Subpart P because it is not considered a "new source" or a "reconstructed" source.

II. Operational Restrictions

1. 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 Recordkeeping 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. The units shall be in degrees Fahrenheit. The monitoring and recording devices shall be capable of accurately measuring the desired parameter. The temperature monitor and recorder shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, with any modifications deemed necessary by the permittee.
2. The permittee shall collect and record the following information each day for the thermal incinerator:
 - 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 quarterly deviation (excursion) reports that identify all 3-hour blocks of time during which the average combustion temperature within the thermal incinerator while the unit is in operation did not comply with the temperature limitation specified above. The reports shall be submitted in accordance with the General Terms and Conditions of this permit.
2. The permittee shall submit annual reports that specify the total emissions of PE, SO₂,

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NOx, OC, and CO from this emissions unit for the previous calendar year. The reports shall be submitted by April 15 of each year and may be satisfied by including this emissions unit in the submission of the annual Fee Emission Report.

V. Testing Requirements

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

- a. Emission Limitation:
2.96 lbs of CO/hr and 12.96 tons of CO/yr

Applicable Compliance Method for Emission Unit B031 & B032:
 Compliance with the hourly emission limitation may be demonstrated by multiplying an emission factor of 3940 lbs of CO/1000 gallon of gasoline burned (U.S. EPA's Factor Information Retrieval Data System - FIRE 6.23, SCC Number 20400401 for recipricating gasoline engines) by the emissions unit's maximum hourly gasoline usage rate (25 gallons/hr) then multiplying by the capture efficiency (99% capture efficiency), then by multiplying by the control efficiency (1 - 0.98 control efficiency).

The annual emission limitation was established by multiplying the hourly emission limitation (2.96 lbs of CO/hr) by 8,760 hrs/yr and dividing by 2000 lbs/ton. Compliance with this limitation may be assumed provided that the permittee complies with the hourly CO emission limitation.

If required, the permittee shall demonstrate compliance with the hourly emission limitations through emission tests performed in accordance with the appropriate testing methods found in 40 CFR Part 60, Appendix A, Methods 1 through 4 and 10. Alternative EPA approved test methods may be used with prior approval from the Ohio EPA.

- b. Emission Limitations:
0.11 lb of OC/hr

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

- i. The emission testing shall be conducted within x months after start-up.
- ii. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate for OC.
- iii. The following test methods shall be employed to demonstrate compliance with the allowable mass emission rates: Test Method 1 through 4 and 25

or 25A. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

- iv. The tests shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency.
 - v. Not later than 30 days prior to the proposed test dates, the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the times and dates of the tests, and the persons who will be conducting the tests. Failure to submit such notification for review and approval prior to the tests may result in the Ohio EPA District Office's or local air agency's refusal to accept the results of the emission tests.
 - vi. Personnel from the appropriate Ohio EPA District Office or local air agency shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.
 - vii. A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the appropriate Ohio EPA District Office or local air agency.
- c. Emission Limitations:
0.48 ton of OC/yr

Applicable Compliance Method:

The annual emission limitation was established by multiplying the hourly emission limitation (0.11 lbs of OC/hr) by 8760 hrs/yr and dividing by 2000 lbs/ton. Compliance with this emission limitation may be assumed provided that the permittee complies with the hourly PE emission limitation.

- d. Emission Limitations:
0.13 lb of SO₂/hr and 0.57 ton of SO₂/yr

Applicable Compliance Method:

Compliance with the hourly emission limitation may be demonstrated by multiplying an emission factor of 5.31 lbs SO₂/1000 gallons of gasoline burned (U.S. EPA's Factor Information Retrieval Data System - FIRE 6.23, SCC number 20400401 for reciprocating gasoline engines) by the emissions unit's maximum hourly gasoline usage rate (25 gallons/hr).

The annual emission limitation was established by multiplying the hourly emission limitation (0.13 lb of SO₂/hr) by 8760 hrs/yr and dividing by 2000 lbs/ton. Compliance with this emission limitation may be assumed provided that the permittee complies with the hourly SO₂ emission limitation.

If required, the permittee shall demonstrate compliance with the hourly emission limitations through emission tests performed in accordance with the appropriate approved method(s) found in 40 CFR Part 60, Appendix A, Methods 1 through 4 and 6. Alternative EPA approved test methods may be used with prior approval from the Ohio EPA.

- e. Emission Limitations:
2.55 lbs of NO_x/hr and 11.17 tons of NO_x/yr

Applicable Compliance Method:

Compliance with the hourly emission limitation may be demonstrated by multiplying an emission factor of 102 lbs NO_x/1000 gallons of gasoline burned (U.S. EPA's Factor Information Retrieval Data System - FIRE 6.23, SCC number 20400401 for reciprocating gasoline engines) by the emissions unit's maximum hourly gasoline usage rate (25 gallons/hr).

The annual emission limitation was established by multiplying the hourly emission limitation (2.55 lbs of NO_x/hr) by 8760 hrs/yr and dividing by 2000 lbs/ton. Compliance with this emission limitation may be assumed provided that the permittee complies with the hourly NO_x emission limitation.

If required, the permittee shall demonstrate compliance with the hourly emission limitations through emission tests performed in accordance with the appropriate testing methods found in 40 CFR Part 60, Appendix A, Methods 1 through 4 and 7 or 7E. Alternative EPA approved test methods may be used with prior approval from the Ohio EPA.

- f. Emission Limitations:
0.16 lb of PM/hr and 0.70 ton of PM/yr

Applicable Compliance Method:

Compliance with the hourly emission limitation may be demonstrated by multiplying an emission factor of 6.47 lbs of PM/1000 gallons of gasoline burned (U.S. EPA's Factor Information Retrieval Data System - FIRE 6.23, SCC number 20400401 for reciprocating gasoline engines) by the emissions unit's maximum hourly gasoline usage rate (25 gallons/hr).

The annual emission limitation was established by multiplying the hourly emission limitation (0.16 lbs of PM/hr) by 8760 hrs/yr and dividing by 2000 lbs/ton. Compliance with this emission limitation may be assumed provided that the permittee complies with the hourly OC emission limitation.

If required, the permittee shall demonstrate compliance with the hourly emission limitations through emission tests performed in accordance with the appropriate testing methods found in 40 CFR Part 60, Appendix A, Methods 1 through 5. Alternative EPA approved test methods may be used with prior approval from the Ohio EPA.

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

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).

VI. Miscellaneous Requirements

None

B. State Only Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(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 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>
B032 - Performance Dynamometer 5-103 (One AVL Cradle Mounted Dyno with Hydrostatic Option: Model DynoExact APA 302/10 PO)	None	None

2. Additional Terms and Conditions

- 2.a None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None