Ohio Environmental Protection Agency

John R. Kasich, Governor
Mary Taylor, Lt. Governor
Craig W. Butler, Director

10/13/2015

Certified Mail

No	TOXIC REVIEW
No	PSD
No	SYNTHETIC MINOR TO AVOID MAJOR NSR
No	CEMS
No	MACT/GACT
No	NSPS
No	NESHAPS
No	NETTING
No	MAJOR NON-ATTAINMENT
No	MODELING SUBMITTED
No	MAJOR GHG
No	SYNTHETIC MINOR TO AVOID MAJOR GHG

Sue Borawski
Honda R & D North America Inc.
21001 State Route 739
Raymond, OH 43067

RE: FINALAIR POLLUTION PERMIT-TO-INSTALL
Facility ID: 0180000156
Permit Number: P0119620
Permit Type: Administrative Modification
County: Union

Dear Permit Holder:

Enclosed please find a final Ohio Environmental Protection Agency (EPA)Air Pollution Permit-to-Install (PTI) which will allow you to install or modify the described emissions unit(s) in a manner indicated in the permit. Because this permit contains several conditions and restrictions, we urge you to read it carefully. Because this permit contains conditions and restrictions, please read it very carefully. In this letter you will find the information on the following topics:

- **How to appeal this permit**
- **How to save money, reduce pollution and reduce energy consumption**
- **How to give us feedback on your permitting experience**
- **How to get an electronic copy of your permit**

How to appeal this permit

The issuance of this PTI is a final action of the Director and may be appealed to the Environmental Review Appeals Commission pursuant to Section 3745.04 of the Ohio Revised Code. The appeal must be in writing and set forth the action complained of and the grounds upon which the appeal is based. The appeal must be filed with the Commission within thirty (30) days after notice of the Director's action. The appeal must be accompanied by a filing fee of $70.00, made payable to "Ohio Treasurer Josh Mandel," which the Commission, in its discretion, may reduce if by affidavit you demonstrate that payment of the full amount of the fee would cause extreme hardship. Notice of the filing of the appeal shall be filed with the Director within three (3) days of filing with the Commission. Ohio EPA requests that a copy of the appeal be served upon the Ohio Attorney General's Office, Environmental Enforcement Section. An appeal may be filed with the Environmental Review Appeals Commission at the following address:

Environmental Review Appeals Commission
77 South High Street, 17th Floor
Columbus, OH 43215

How to save money, reduce pollution and reduce energy consumption

The Ohio EPA is encouraging companies to investigate pollution prevention and energy conservation. Not only will this reduce pollution and energy consumption, but it can also save you money. If you would like to learn ways you can save money while protecting the environment, please contact our Office of Compliance Assistance and Pollution Prevention at (614) 644-3469. Additionally, all or a portion of the capital expenditures related to installing air pollution control equipment under this permit may be eligible for financing and State tax exemptions through the Ohio Air Quality Development Authority (OAQDA) under Ohio Revised Code Section 3706. For more information, see the OAQDA website: www.ohioairquality.org/clean_air

How to give us feedback on your permitting experience

Please complete a survey at www.epa.ohio.gov/survey.aspx and give us feedback on your permitting experience. We value your opinion.

How to get an electronic copy of your permit

This permit can be accessed electronically via the eBusiness Center: Air Services in Microsoft Word format or in Adobe PDF on the Division of Air Pollution Control (DAPC) Web page, www.epa.ohio.gov/dapc by clicking the "Search for Permits" link under the Permitting topic on the Programs tab.

If you have any questions, please contact Ohio EPA DAPC, Central District Office at (614)728-3778 or the Office of Compliance Assistance and Pollution Prevention at (614) 644-3469.

Sincerely,

Michael E. Hopkins, P.E.
Assistant Chief, Permitting Section, DAPC

Cc: U.S. EPA
Ohio EPA-CDO

FINAL

Division of Air Pollution Control
Permit-to-Install
for
Honda R & D North America Inc.

Facility ID:	0180000156
Permit Number:	P0119620
Permit Type:	Administrative Modification
Issued:	10/13/2015
Effective:	10/13/2015

Ohio Environmental Protection Agency

Division of Air Pollution Control
Permit-to-Install
for
Honda R & D North America Inc.

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Authorization

Facility ID:	0180000156
Facility Description:	Car and body engines - testing laboratory
Application Number(s):	A0054376, A0054381
Permit Number:	P0119620
Permit Description:	Administrative modification to allow dynamometer emissions to be controlled by either a thermal oxidizer or catalytic control system.
Permit Type:	Administrative Modification
Permit Fee:	$300.00
Issue Date:	10/13/2015
Effective Date:	10/13/2015

This document constitutes issuance to:

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

of a Permit-to-Install for the emissions unit(s) identified on the following page.

Ohio Environmental Protection Agency (EPA) District Office or local air agency responsible for processing and administering your permit:

Ohio EPA DAPC, Central District Office
50 West Town Street, 6th Floor
P.O. Box 1049
Columbus, OH 43216-1049
(614)728-3778

The above named entity is hereby granted a Permit-to-Install for the emissions unit(s) listed in this section 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 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

Craig W. Butler
Director

Authorization (continued)

Permit Number: P0119620
Permit Description: Administrative modification to allow dynamometer emissions to be controlled by either a thermal oxidizer or catalytic control system.

Permits for the following Emissions Unit(s) or groups of Emissions Units are in this document as indicated below:

Emissions Unit ID:	**B019**
Company Equipment ID:	B019
Superseded Permit Number:	P0115702
General Permit Category and Type:	Not Applicable

Group Name: Dynamometers

Emissions Unit ID:	**B015**
Company Equipment ID:	Durability Dynamometer (Rm. 105)
Superseded Permit Number:	P0116119
General Permit Category andType:	Not Applicable
Emissions Unit ID:	**B042**
Company Equipment ID:	B042 Performance Dyn
Superseded Permit Number:	P0116119
General Permit Category andType:	Not Applicable

A. Standard Terms and Conditions

1. Federally Enforceable Standard Terms and Conditions

a) All Standard Terms and Conditions are federally enforceable, with the exception of those listed below which are enforceable under State law only:

(1) Standard Term and Condition A.2.a), Severability Clause

(2) Standard Term and Condition A.3.c) through A. 3.e)General Requirements

(3) Standard Term and Condition A.6.c) and A. 6.d), Compliance Requirements

(4) Standard Term and Condition A.9., Reporting Requirements

(5) Standard Term and Condition A.10., Applicability

(6) Standard Term and Condition A.11.b) through A.11.e), Construction of New Source(s) and Authorization to Install

(7) Standard Term and Condition A.14., Public Disclosure

(8) Standard Term and Condition A.15., Additional Reporting Requirements When There Are No Deviations of Federally Enforceable Emission Limitations, Operational Restrictions, or Control Device Operating Parameter Limitations

(9) Standard Term and Condition A.16., Fees

(10) Standard Term and Condition A.17., Permit Transfers

2. Severability Clause

a) 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.

b) All terms and conditions designated in parts B and C of this permit are federally enforceable as a practical matter, if they 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 and the State and by citizens (to the extent allowed by section 304 of the Act) under the Act. Terms and conditions in parts B and C of this permit shall not be federally enforceable and shall be enforceable under State law only, only if specifically identified in this permit as such.

3. General Requirements

a) 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 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.

4. Monitoring and Related Record Keeping and Reporting Requirements

a) Except as may otherwise be provided in the terms and conditions for a specific emissions unit, the permittee shall maintain records that include the following, where applicable, for any required monitoring under this permit:

(1) The date, place (as defined in the permit), and time of sampling or measurements.

(2) The date(s) analyses were performed.

(3) The company or entity that performed the analyses.

(4) The analytical techniques or methods used.

(5) The results of such analyses.

(6) 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:

(1) Reports of any required monitoring and/or recordkeeping of federally enforceable information shall be submitted to the Ohio EPA DAPC, Central District Office.

(2) Quarterly written reports of (i) any deviations from federally enforceable emissionlimitations, operationalrestrictions, andcontroldeviceoperatingparameterlimitations, 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 the Ohio EPA DAPC, Central District Office. 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 A.15. below if no deviations occurred during the quarter.

(3) Written reports, which identify any deviations from the federally enforceable monitoring, recordkeeping, andreportingrequirements contained in this permit shall be submitted to the Ohio EPA DAPC, Central District Office 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.

(4) This permit is for an emissions unit located at a Title V facility. 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.

5. 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 theOhio EPA DAPC, Central District Officein 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).

6. Compliance Requirements

a) All applications, notifications or reports required by terms and conditions in this permit to be submitted or "reported in writing" are to be submitted to Ohio EPA through the Ohio EPA's eBusiness Center: Air Services web service ("Air Services"). Ohio EPA will accept hard copy submittals on an as-needed basis if the permittee cannot submit the required documents through the Ohio EPA eBusiness Center. In the event of an alternative hard copy submission in lieu of the eBusiness Center, the post-marked date or the date the document is delivered in person will be recognized as the date submitted. Electronic submission of applications, notifications or reports required to be submitted to Ohio EPA fulfills the requirement to submit the required information to the Director, the appropriate Ohio EPA District Office or contracted

local air agency, and/or any other individual or organization specifically identified as an additional recipient identified in this permit unless otherwise specified. Consistent with OAC rule 3745-15-03, the electronic signature date shall constitute the date that the required application, notification or report is considered to be "submitted". Any document requiring signature may be represented by entry of the personal identification number (PIN) by responsible official as part of the electronic submission process or by the scanned attestation document signed by the Authorized Representative that is attached to the electronically submitted written report.

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:

(1) 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.

(2) 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.

(3) Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit.

(4) 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 Ohio EPA DAPC, Central District Office 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:

(1) Dates for achieving the activities, milestones, or compliance required in any schedule of compliance, and dates when such activities, milestones, or compliance were achieved.

(2) 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.

7. Best Available Technology

As specified in OAC Rule 3745-31-05, new sources that must employ Best Available Technology (BAT) shall comply with the Applicable Emission Limitations/Control Measures identified as BAT for each subject emissions unit.

8. 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.

9. 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 Ohio EPA DAPC, Central District Office.

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 Ohio EPA DAPC, Central District Office. 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, 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.)

10. 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)not exempt from the requirement to obtain a Permit-to-Install.

11. Construction of New Sources(s) and Authorization to Install

a) 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.

b) If applicable, authorization to install any new 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 has not entered into a binding contractual obligation to undertake and complete within a reasonable time a continuing program of installation. 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 permittee shows good cause for any such extension.

c) The permittee may notify Ohio EPA of any emissions unit that is permanently shut down (i.e., the emissions unit has been physically removed from service or has been altered in such a way that it can no longer operate without a subsequent "modification" or "installation" as defined in OAC Chapter 3745-31) by submitting a certification from the authorized official that identifies the date on which the emissions unit was permanently shut down. Authorization to operate the affected emissions unit shall cease upon the date certified by the authorized official that the emissions unit was permanently shut down. At a minimum, notification of permanent shut down shall be made or confirmed by marking the affected emissions unit(s) as "permanently shut down" in "Air Services" along with the date the emissions unit(s) was permanently removed and/or disabled. Submitting the facility profile update electronically will constitute notifying the Director of the permanent shutdown of the affected emissions unit(s).

d) The provisions of this permit shall cease to be enforceable for each affected emissions unit after the date on which an emissions unit is permanently shut down (i.e., emissions unit has been physically removed from service or has been altered in such a way that it can no longer operate without a subsequent "modification" or "installation" as defined in OAC Chapter 3745-31). All records relating to any permanently shutdown emissions unit, generated while the emissions unit was in operation, must be maintained in accordance with law. All reports required by this permit must be submitted for any period an affected emissions unit operated prior to permanent shut down. At a minimum, the permit requirements must be evaluated as part of the reporting requirements identified in this permit covering the last period the emissions unit operated.

Unless otherwise exempted,no emissions unit certified by the responsible official as being permanently shut down may resume operation without first applying for and obtaining a permit pursuant to OAC Chapter 3745-31 and OAC Chapter 3745-77 if the restarted operation is subject to one or more applicable requirements.

e) The permittee shall comply with any residual requirements related to this permit, such as the requirement to submit a deviation report, air fee emission report, or other any reporting required by this permit for the period the operating provisions of this permit were enforceable, or as required by regulation or law. All reports shall be submitted in a form and manner prescribed by the Director. All records relating to this permit must be maintained in accordance with law.

12. Permit-To-Operate Application

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 operation of the proposed new or modified source(s) as authorized by this permit would be prohibited by the terms and conditions of an existing Title V permit, a Title V permit modification of such new or modified source(s) pursuant to OAC rule 3745-77-04(D) and OAC rule 3745-77-08(C)(3)(d)must be <u>obtained before</u>operating the source in a manner that would violate the existing Title V permit requirements.

13. Construction Compliance Certification

The applicant shall identify the following dates in the "Air Services"facility profile for each new emissions unit identified in this permit.

a) Completion of initial installation date shall be enteredupon completion of construction and prior to start-up.

b) Commence operation after installation or latest modification date shall be entered within 90 days after commencing operation of the applicable emissions unit.

14. 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.

15. Additional Reporting Requirements When There Are No Deviations of Federally Enforceable Emission Limitations, Operational Restrictions, or Control Device Operating Parameter Limitations

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

16. 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.

17. Permit Transfers

Any transferee of this permit shall assume the responsibilities of the prior permit holder. The new owner must update and submit the ownership information via the "Owner/Contact Change" functionality in "Air Services" once the transfer is legally completed.The change must be submitted through "Air Services" within thirty days of the ownership transfer date.

18. 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.

19. 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.

B. Facility-Wide Terms and Conditions

1. All the following facility-wide terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only:

   a) None.

2. In accordance with OAC rule 3745-31-05(D) to avoid PSD, the emissions of carbon monoxide (CO) from all emissions units, including all de minimis emissions units as defined in OAC rule 3745-15-05, and all registration status and/or permit exempt/permit-by-rule emissions units pursuant to OAC rule 3745-31-03, combined, shall not exceed 249 tons per rolling, 12-month period.

3. In accordance with OAC rule 3745-31-05(D) to avoid MACT, the emissions of hazardous air pollutants (HAPs), as identified in Section 112(b) of Title III of the Clean Air Act, from all emissions units, including all de minimis emissions units as defined in OAC rule 3745-15-05, and all registration status and/or permit exempt/permit-by-rule emissions units pursuant to OAC rule 3745-31-03, combined, shall not exceed 9.9 tons per year for any individual HAP and 24.9 tons per year for any combination of HAPs, based upon rolling, 12-month summations of the HAP emissions.

4. Operational Restrictions

   a) The facility-wide usage of gasoline in the uncontrolled dynamometers shall not exceed 100,000 gallons per rolling, 12-month period.

   b) The facility-wide usage of gasoline in controlled dynamometers shall not exceed 540,000 gallons per rolling, 12-month period.

   c) The facility-wide natural gas usage shall not exceed 250 million cubic feet per rolling, 12-month period.

   d) Emissions from emissions units B013, B014, B015, B019, B027, B031, B032, B033, B035, B036, B037, B042, B052, B053 and B054 shall be vented to a thermal oxidizer (TO) or a catalyst control system (CCS) with a minimum CO control efficiency of 98%.

   e) The usage of coatings in emissions units K001, K002, K004 and K005 shall not exceed 2,275 gallons per rolling, 12-month period.

   f) The usage of cleanup materials in emissions units K001, K002, K004 and K005 shall not exceed 750 gallons per rolling, 12-month period.

5. In order to maintain compliance with the applicable emission limitation(s) contained in this permit, the acceptable average combustion temperature within the TO(s), for any 3-hour block of time when the emissions unit(s) controlled by the TO is/are in operation, shall not be more than 50 degrees Fahrenheit below the average temperature measured during the most recent performance test that demonstrated the emissions unit(s) was/were in compliance.

6. The CCS shall be operated and maintained in accordance with the manufacturer's recommendations, instructions, and operating manuals. The permittee shall maintain records of maintenance conducted on the CCS, including each date the catalyst was inspected and replaced.

7. In order to maintain compliance with the applicable emission limitation(s) contained in this permit, the inlet temperature to the catalyst bed shall not be less than 650 degrees Fahrenheit when the emissions unit(s) controlled by the CCS is/are in operation.

8. The permittee shall properly install, operate, and maintain a continuous temperature monitor and recorder that measures and records the combustion temperature within the TO when the emissions unit(s) is/are in operation, including periods of startup and shutdown. Units shall be in degrees Fahrenheit. The accuracy for each thermocouple, monitor, and recorder shall be guaranteed by the manufacturer to be within ± 1 percent of the temperature being measured or ± 5 degrees Fahrenheit, whichever is greater. The temperature monitor and recorder shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and the operating manuals, with any modifications deemed necessary by the permittee. The permittee shall collect and record the following information each day the emissions unit(s) is/are in operation:

   a) all 3-hour blocks of time, when the emissions unit(s) controlled by the TO was/were in operation, during which the average combustion temperature within the TO was more than 50 degrees Fahrenheit below the average temperature measured during the most recent performance test that demonstrated the emissions unit(s) was/were in compliance; and

   b) a log (date and total time) of the downtime or bypass of the capture (collection) system and TO, and/or downtime of the monitoring equipment, when the associated emissions unit(s) was/were in operation.

9. The permittee shall properly install, operate, and maintain a continuous temperature monitor and recorder that measures and records the inlet temperature to the catalyst bed within the CCS when the emissions unit(s) is/are in operation, including periods of startup and shutdown. Units shall be in degrees Fahrenheit. The accuracy for each thermocouple, monitor, and recorder shall be guaranteed by the manufacturer to be within ± 1 percent of the temperature being measured or ± 5 degrees Fahrenheit, whichever is greater. The temperature monitor and recorder shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and the operating manuals, with any modifications deemed necessary by the permittee. The permittee shall collect and record the following information each day the emissions unit(s) is/are in operation:

   a) all periods of time, when the emissions unit(s) controlled by the CCS was/were in operation, during which the inlet temperature to the catalyst bed was less than 650 degrees Fahrenheit; and

   b) a log (date and total time) of the downtime or bypass of the capture (collection) system and CCS, and/or downtime of the monitoring equipment, when the associated emissions unit(s) was/were in operation.

10. Whenever the monitored temperature within the TO or CCS deviates from the range or limit established in accordance with this permit, the permittee shall promptly investigate the cause of the deviation. The permittee shall maintain records of the following information for each investigation:

   a) the date and time the deviation began;

   b) the magnitude of the deviation at that time;

   c) the date the investigation was conducted;

d) the name(s) of the personnel who conducted the investigation; and

e) the findings and recommendations.

In response to each required investigation to determine the cause of a deviation, the permittee shall take prompt corrective action to bring the operation of the control equipment within the acceptable range/limit specified in this permit, unless the permittee determines that corrective action is not necessary and documents the reasons for that determination and the date and time the deviation ended. The permittee shall maintain records of the following information for each corrective action taken:

f) a description of the corrective action;

g) the date corrective action was completed;

h) the date and time the deviation ended;

i) the total period of time (in minutes) during which there was a deviation;

j) the temperature readings immediately after the corrective action was implemented; and

k) the name(s) of the personnel who performed the work.

Investigation and records required by this paragraph do not eliminate the need to comply with the requirements of OAC rule 3745-15-06 if it is determined that a malfunction has occurred.

The temperature range/limit is effective for the duration of this permit, unless revisions are requested by the permittee and approved in writing by the Ohio EPA, Central District Office. The permittee may request revisions to the permitted temperature range/limit based upon information obtained during future performance tests that demonstrate compliance with the allowable emission rate(s) for the controlled pollutant(s). In addition, approved revisions to the temperature range/limit will not constitute a relaxation of the monitoring requirements of this permit and may be incorporated into this permit by means of a modification.

11. The permittee shall maintain monthly records of the following information:

a) the facility-wide usage of gasoline in the uncontrolled dynamometers, in gallons per month;

b) the facility-wide usage of gasoline in the controlled dynamometers, in gallons per month;

c) the facility-wide natural gas usage, in million cubic feet;

d) the total gallons of coating employed in emissions units K001, K002, K004 and K005;

e) the total gallons of cleanup material employed in emissions units K001, K002, K004 and K005;

f) the facility-wide CO emissions, in tons per month;

g) the facility-wide individual HAP emissions, in tons per month;

h) the facility-wide combined HAPs emissions, in tons per month;

i) the rolling, 12-month summation of facility-wide gasoline usage in the uncontrolled dynamometers, in gallons;

j) the rolling, 12-month summation of facility-wide gasoline usage in the controlled dynamometers, in gallons;

k) the rolling, 12-month summation of facility-wide natural gas usage, in million cubic feet;

l) the rolling, 12-month summation of the total gallons of coating employed in emissions units K001, K002, K004 and K005;

m) the rolling, 12-month summation of the total gallons of cleanup material employed in emissions units K001, K002, K004 and K005;

n) the rolling, 12-month summation of facility-wide CO emissions, in tons;

o) the rolling, 12-month summation of facility-wide individual HAP emissions, in tons; and

p) the rolling, 12-month summation of facility-wide combined HAPs emissions, in tons.

12. The permittee shall submit quarterly deviation (excursion) reports that identify:

a) all deviations (excursions) of the following emission limitations, operational restrictions and/or control device operating parameter limitations that restrict the potential to emit (PTE) of any regulated air pollutant and have been detected by the monitoring, recordkeeping and/or testing requirements in this permit:

(1) each period of time (start time and date, and end time and date) when the monitored temperature within the TO or CCS deviated from the acceptable range or limit;

(2) any period of time (start time and date, and end time and date) when the emissions unit(s) B013, B014, B015, B019, B027, B031, B032, B033, B035, B036, B037, B042, B052, B053 and/or B054 was/were in operation and the process emissions were not vented to the TO or CCS;

(3) each incident of deviation described in “(1)” or ”(2)” (above) where a prompt investigation was not conducted;

(4) each incident of deviation described in “(1)” or “(2)” where prompt corrective action, that would bring the emissions unit(s) into compliance and/or the temperature within the TO or CCS into compliance with the acceptable range, was determined to be necessary and was not taken;

(5) each incident of deviation described in “(1)” or “(2)” where proper records were not maintained for the investigation and/or the corrective action(s);

(6) all exceedances of the rolling, 12-month facility-wide limitation of gasoline usage in the uncontrolled dynamometers;

(7) all exceedances of the rolling, 12-month facility-wide limitation of gasoline usage in the controlled dynamometers;

(8) all exceedances of the rolling, 12-month facility-wide natural gas usage limitation;

(9) all exceedances of the rolling, 12-month coating usage limitation for emissions units K001, K002, K004 and K005;

(10) all exceedances of the rolling, 12-month cleanup material usage limitation for emissions units K001, K002, K004 and K005;

(11) all exceedances of the rolling, 12-month facility-wide CO emissions limitation;

(12) all exceedances of the rolling, 12-month individual HAP emission limitation; and

(13) all exceedances of the rolling, 12-month combined HAPs emission limitation.

b) the probable cause of each deviation (excursion).

c) any corrective actions that were taken to remedy the deviations (excursions) or prevent future deviations (excursions).

d) the magnitude and duration of each deviation (excursion).

If no deviations (excursions) occurred during a calendar quarter, the permittee shall submit a report that states that no deviations (excursions) occurred during the quarter.

The quarterly reports shall be submitted, electronically through Ohio EPA Air Services, each year by January 31 (covering October to December), April 30 (covering January to March), July 31 (covering April to June), and October 31 (covering July to September), unless an alternative schedule has been established and approved by the director (the Ohio EPA, Central District Office).

13. Compliance with the rolling, 12-month CO emissions limitation specified in section B.2 of these terms and conditions shall be determined in accordance with the recordkeeping requirements of section B.11.

14. Compliance with the rolling, 12-month HAP emissions limitations specified in section B.3 of these terms and conditions shall be determined in accordance with the recordkeeping requirements of section B.11.

15. If required, the permittee shall conduct or have conducted, control efficiency testing for emissions units B013, B014, B015, B019, B027, B031, B032, B033, B035, B036, B037, B042, B052, B053 and B054 in accordance with 40 CFR Part 60, Appendix A, Methods 1-4 and 10.

C. Emissions Unit Terms and Conditions

1. B019, Performance Dynamometer, Bldg. 5 Room 100A

Operations, Property and/or Equipment Description:

Performance Dynamometer, Bldg. 5 Room 100A

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

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

(1) The specific operation(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures are identified below. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-17-07(A)	Visible particulate emissions from the stack serving this emissions unit shall not exceed 20 percent opacity as a six-minute average, except as provided by rule.
b.	OAC rule 3745-17-11(B)(5)	Particulate emissions shall not exceed 0.310 pound per million Btu of actual heat input.
c.	OAC rule 3745-31-05(A)(3) and ORC 3704.03(T) [Best Available Technology for NOx and CO]	Best available technology (BAT) for NOx has been established as the following: The usage of gasoline shall not exceed 525,600 gallons per rolling, 12-month period. BAT for CO has been established as the following: The permittee shall install a thermal oxidizer (TO) or catalyst control system (CCS) with a design carbon monoxide control efficiency of at least 98%. See b)(2)a. below.
d.	OAC rule 3745-31-05(A)(3) and ORC 3704.03(T) [Best Available Technology for PM_{10}, $PM_{2.5}$, SO_2 and VOC]	BAT for PM_{10}, $PM_{2.5}$ and SO_2 has been established as the following: The usage of gasoline shall not exceed 525,600 gallons per rolling, 12-month period.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		BAT for VOC has been established as the following: The permittee shall install a thermal oxidizer (TO) or catalyst control system (CCS) with a design volatile organic compound (VOC) control efficiency of at least 98%. See b)(2)a. and b)(2)b. below.
e.	OAC rule 3745-31-05(A)(3)(a)(ii) and ORC 3704.03(T)	The BAT requirements under OAC rule 3745-31-05(A)(3) do not apply to the PM_{10}, $PM_{2.5}$, SO_2 and VOC emissions from this air contaminant source since the controlled potentials to emit are less than 10 tons per year. See b)(2)c. below.
f.	OAC rule 3745-31-05(D) (Federally enforceable limitations to avoid PSD and MACT)	See 2. through 15. of Section B - Facility-Wide Terms and Conditions.

(2) Additional Terms and Conditions

a. The annual gasoline throughput limitation was established to reflect the maximum potential throughput for this emissions unit.Therefore, it is not necessary to develop monitoring, recordkeeping and/or reporting requirements to ensure compliance with this limitation.

b. These BAT emission limits apply until U.S. EPA approves Ohio Administrative Code (OAC) paragraph 3745-31-05(A)(3)(a)(ii) (the less than 10 tons per year BAT exemption) into the Ohio State Implementation Plan (SIP).

c. This requirement applies once U.S. EPA approves OAC paragraph 3745-31-05(A)(3)(a)(ii) (the less than 10 tons per year BAT exemption) as part of the Ohio SIP.

c) Operational Restrictions

(1) None.

d) Monitoring and/or Recordkeeping Requirements

(1) The permittee shall properly install, operate and maintain the TO or CCS in accordance with the manufacturer's recommendations, instructions, and/or operating manual(s).

(2) The permittee shall maintain documentation of the manufacturer's recommendations, instructions, and/or operating manual(s) for the TO or CCS. These documents shall be maintained at the facility and shall be made available to the Ohio EPA, Central District Office upon request

(3) The permittee shall maintain the following information for maintenance and repairs performed on the TO or CCS:

a. the date of the maintenance and/or repair;

b. a description of the maintenance and/or repairs performed; and

c. the name of person(s) who performed the maintenance and/or repair.

e) Reporting Requirements

(1) None.

f) Testing Requirements

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

a. Control efficiency testing for the CCS shall be performed within 4 months after permit issuance.

b. The following test methods shall be employed to demonstrate compliance with the CO control efficiency for the CCS: 40 CFR Part 60, Appendix A, Methods 1-4 and 10. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

c. The test shall be conducted under those representative conditions that challenge to the fullest extent possible a facility's ability to meet the applicable emissions limit, unless otherwise specified or approved by the Ohio EPA, Central District Office. Although this generally consists of operating the emissions unit at its maximum material input/production rates and results in the highest emission rate of the tested pollutant, there may be circumstances where a lower emissions loading is deemed the most challenging control scenario. Failure to test under these conditions is justification for not accepting the test results as a demonstration of compliance.

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

e. Personnel from the Ohio EPA, Central District Office shall be permitted to witness the test, 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.

f. A comprehensive written report on the results of the emissions test shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA, Central District Office within 30 days following completion of the test. The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Ohio EPA, Central District Office.

(2) Compliance with the Emissions Limitations and/or Control Requirements specified in section b) of these terms and conditions shall be determined in accordance with the following methods:

a. Emissions Limitation

Visible particulate emissions from the stack serving this emissions unit shall not exceed 20 percent opacity as a six-minute average, except as provided by rule.

Applicable Compliance Method

If required, compliance with the visible particulate emissions limitation shall be determined in accordance with 40 CFR Part 60, Appendix A, Method 9.

b. Emissions Limitation

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

Applicable Compliance Method

Compliance is inherent based on the AP-42, Fifth Edition, Section 3.3, Table 3.3-1 (revised 10/96) emission factor of 0.10 lb/MMBtu.

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in OAC rule 3745-17-03(B)(10).

c. Emissions Limitation

The usage of gasoline shall not exceed 525,600 gallons per rolling, 12-month period.

Applicable Compliance Method

The annual gasoline usage limitation was established by multiplying the emission unit's maximum hourly gasoline usage rate (60 gal/hr) by 8,760 hr/yr.

d. Emissions Limitation

The permittee shall install a thermal oxidizer (TO) or catalyst control system (CCS) with a design carbon monoxide control efficiency of at least 98%.

Applicable Compliance Method

Compliance shall be based on the manufacturer's certification and by maintaining the control equipment in accordance with the manufacturer's recommendations, instructions, and/or operating manual(s).

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

e. Emissions Limitation

The permittee shall install a thermal oxidizer (TO) or catalyst control system (CCS) with a design volatile organic compound (VOC) control efficiency of at least 98% (as applicable prior to U.S. EPA approving OAC rule 3745-31-05(A)(3)(a)(ii) as part of the SIP).

Applicable Compliance Method

Compliance shall be based on the manufacturer's certification and by maintaining the control equipment in accordance with the manufacturer's recommendations, instructions, and/or operating manual(s).

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 25 or 25A.

g) Miscellaneous Requirements

(1) None.

2. Emissions Unit Group -Dynamometers: B015 and B042

EU ID	Operations, Property and/or Equipment Description
B015	Durability Dynamometer, engine testing w/ incinerator control, Bldg. 5 Room 105
B042	Performance Dynamometer controlled by thermal incinerator, Bldg. 5 Room 107

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

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

(1) The specific operation(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures are identified below. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-17-07(A)	Visible particulate emissions from the stack serving this emissions unit shall not exceed 20 percent opacity as a six-minute average, except as provided by rule.
b.	OAC rule 3745-17-11(B)(5)	Particulate emissions shall not exceed 0.310 pound per million Btu of actual heat input.
c.	OAC rule 3745-31-05(A)(3) [Best Available Technology for OC, NOx and CO]	Emissions from the combustion of gasoline in this emissions unit shall not exceed the following limitations: Organic compound (OC) emissions shall not exceed 4.49 pounds per hour and 19.64 tons per year. Nitrogen oxides (NOx) emissions shall not exceed 3.60 pounds per hour and 15.77 tons per year. Carbon monoxide (CO) emissions shall not exceed 7.04 pounds per hour and 30.85 tons per year. The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07(A),

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		3745-17-11(B)(5) and 3745-31-05(D). See b)(2)a. below.
d.	OAC rule 3745-31-05(A)(3) [Best Available Technology for PE and SO_2]	Emissions from the combustion of gasoline in this emissions unit shall not exceed the following limitations: Particulate emissions (PE) shall not exceed 0.34 pound per hour and 1.48 tons per year. Sulfur dioxide (SO_2) emissions shall not exceed 0.32 pound per hour and 1.40 tons per year. See b)(2)a. and b)(2)b. below.
e.	OAC rule 3745-31-05(A)(3)(a)(ii)	The Best Available Technology requirements under OAC rule 3745-31-05(A)(3) do not apply to the PE and SO_2 emissions from this air contaminant source since the potentials to emit are less than 10 tons per year. See b)(2)c. below.
f.	OAC rule 3745-31-05(D) (Federally enforceable limitations to avoid PSD and MACT)	See 2. through 15. of Section B - Facility-Wide Terms and Conditions.

(2) Additional Terms and Conditions

a. The hourly and annual PE, SO_2, OC, NOx and CO emissions limitations were established to reflect the potential to emit for each pollutant as vented to the TO or CCS. The monitoring and recordkeeping requirements for the control equipment as established in Section B - Facility-Wide Terms and Conditions are sufficient to demonstrate compliance with these limitations.

b. These Best Available Technology (BAT) emission limits apply until U.S. EPA approves Ohio Administrative Code (OAC) paragraph 3745-31-05(A)(3)(a)(ii) (the less than 10 tons per year BAT exemption) into the Ohio State Implementation Plan (SIP).

c. This requirement applies once U.S. EPA approves OAC paragraph 3745-31-05(A)(3)(a)(ii) (the less than 10 tons per year BAT exemption) as part of the Ohio SIP.

c) Operational Restrictions

(1) None.

d) Monitoring and/or Recordkeeping Requirements

(1) None.

e) Reporting Requirements

(1) None.

f) Testing Requirements

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

a. Control efficiency testing for the CCS shall be performed within 4 months after permit issuance.

b. The following test methods shall be employed to demonstrate compliance with the CO control efficiency of the CCS: 40 CFR Part 60, Appendix A, Methods 1-4 and 10. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

c. The test shall be conducted under those representative conditions that challenge to the fullest extent possible a facility's ability to meet the applicable emissions limit, unless otherwise specified or approved by the Ohio EPA, Central District Office. Although this generally consists of operating the emissions unit at its maximum material input/production rates and results in the highest emission rate of the tested pollutant, there may be circumstances where a lower emissions loading is deemed the most challenging control scenario. Failure to test under these conditions is justification for not accepting the test results as a demonstration of compliance.

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

e. Personnel from the Ohio EPA, Central District Office shall be permitted to witness the test, 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.

f. A comprehensive written report on the results of the emissions test shall be signed by the person or persons responsible for the tests and submitted to the

Ohio EPA, Central District Office within 30 days following completion of the test. The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Ohio EPA, Central District Office.

(2) Compliance with the Emissions Limitations and/or Control Requirements specified in section b) of these terms and conditions shall be determined in accordance with the following methods:

a. Emissions Limitation

Visible particulate emissions from the stack serving this emissions unit shall not exceed 20 percent opacity as a six-minute average, except as provided by rule.

Applicable Compliance Method

If required, compliance with the visible particulate emissions limitation shall be determined in accordance with 40 CFR Part 60, Appendix A, Method 9.

b. Emissions Limitation

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

Applicable Compliance Method

Compliance is inherent based on the AP-42, Fifth Edition, Section 3.3, Table 3.3-1 (revised 10/96) emission factor of 0.10 lb/MMBtu.

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in OAC rule 3745-17-03(B)(10).

c. Emissions Limitation

Particulate emissions (PE) shall not exceed 0.34 pound per hour and 1.48 tons per year (as applicable prior to U.S. EPA approving OAC rule 3745-31-05(A)(3)(a)(ii) as part of the SIP).

Applicable Compliance Method

The hourly PE limitation was established by multiplying an emission factor of 0.0047 pound of particulates per gallon of gasoline burned by the emissions unit's maximum gasoline usage rate (60 gal/hr) and adding a 20% safety factor [(0.0047 lb PE/gal x 60 gal/hr) + (20% x 0.0047 lb PE/gal x 60 gal/hr)]. The emission factor was established using emission test data from a similar emissions unit tested on June 2, 2001.

The annual PE limitation was established by multiplying the hourly emission limitation by 8,760 hr/yr and dividing by 2,000 lb/ton. Compliance with this emission limitation may be assumed provided the permittee complies with the hourly PE limitation.

If required, the permittee shall demonstrate compliance with this emissions limitation in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5.

d. Emissions Limitation

Sulfur dioxide (SO_2) emissions shall not exceed 0.32 pound per hour and 1.40 tons per year (as applicable prior to U.S. EPA approving OAC rule 3745-31-05(A)(3)(a)(ii) as part of the SIP).

Applicable Compliance Method

The hourly SO_2 emission limitation was established by multiplying an emission factor 5.31 pounds of SO_2 per 1,000 gallons of gasoline burned by the emissions unit's maximum gasoline usage rate (60 gal/hr). The emission factor is specified in U.S. EPA's WebFIRE database (using SCC number 20400401 for reciprocating gasoline engines).

The annual SO_2 limitation was established by multiplying the hourly emission limitation by 8,760 hr/yr and dividing by 2,000 lb/ton. Compliance with this emission limitation may be assumed provided the permittee complies with the hourly SO_2 limitation.

If required, the permittee shall demonstrate compliance with this emissions limitation in accordance with 40 CFR Part 60, Appendix A, Methods 1-4 and 6.

e. Emissions Limitation

Organic compound (OC) emissions shall not exceed 4.49 pounds per hour and 19.64 tons per year.

Applicable Compliance Method

The uncontrolled hourly OC emissions were calculated by multiplying an emission factor 148 pounds of OC per 1,000 gallons of gasoline burned by the emissions unit's maximum gasoline usage rate (60 gal/hr). The emission factor is specified in U.S. EPA's WebFIRE database (using SCC number 20400401 for reciprocating gasoline engines).

The controlled hourly OC emissions limitation was established as follows.

OC = (Gasoline Throughput) x (EF) x [(CE) x (1 - DE) + (1 – CE)], where:

Gasoline Throughput (maximum) = 60 gal/hr
EF (emission factor) = 0.148 pound of OC per gallon of gasoline
CE (capture efficiency) = 99%
DE (control efficiency) = 50%

The annual OC limitation was established by multiplying the hourly emission limitation by 8,760 hr/yr and dividing by 2,000 lb/ton. Compliance with this emission limitation may be assumed provided the permittee complies with the hourly OC limitation.

If required, the permittee shall demonstrate compliance with this emissions limitation in accordance with 40 CFR Part 60, Appendix A, Methods 1-4 and 25 or 25A.

f. Emissions Limitation

Nitrogen oxides (NOx) emissions shall not exceed 3.60 pounds per hour and 15.77 tons per year.

Applicable Compliance Method

The hourly NOx limitation was established by multiplying an emission factor of 0.050 pound of NOx per gallon of gasoline burned by the emissions unit's maximum gasoline usage rate (60 gal/hr) and adding a 20% safety factor [(0.050 lb NOx/gal x 60 gal/hr) + (20% x 0.050 lb NOx/gal x 60 gal/hr)]. The emission factor was established using emission test data from a similar emissions unit tested on June 2, 2001.

The annual NOx limitation was established by multiplying the hourly emission limitation by 8,760 hr/yr and dividing by 2,000 lb/ton. Compliance with this emission limitation may be assumed provided the permittee complies with the hourly NOx limitation.

If required, the permittee shall demonstrate compliance with this emissions limitation in accordance with 40 CFR Part 60, Appendix A, Methods 1-4 and 7 or 7E.

g. Emissions Limitation

Carbon monoxide (CO) emissions shall not exceed 7.04 pounds per hour and 30.85 tons per year.

Applicable Compliance Method

The uncontrolled hourly CO emissions were calculated by multiplying an emission factor 3,940 pounds of CO per 1,000 gallons of gasoline burned by the emissions unit's maximum gasoline usage rate (60 gal/hr). The emission factor is specified in U.S. EPA's WebFIRE database (using SCC number 20400401 for reciprocating gasoline engines).

The controlled hourly CO emissions limitation was established as follows.

CO = (Gasoline Throughput) x (EF) x [(CE) x (1 - DE) + (1 – CE)], where:

Gasoline Throughput (maximum) = 60 gal/hr
EF (emission factor) = 3.94 pounds of CO per gallon of gasoline
CE (capture efficiency) = 99%
DE (control efficiency) = 98%

The annual CO limitation was established by multiplying the hourly emission limitation by 8,760 hr/yr and dividing by 2,000 lb/ton. Compliance with this emission limitation may be assumed provided the permittee complies with the hourly CO limitation.

If required, the permittee shall demonstrate compliance with this emissions limitation in accordance with 40 CFR Part 60, Appendix A, Methods 1-4 and 10.

g) Miscellaneous Requirements

(1) None.