INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
We Protect Hoosiers and Our Environment.

Mitchell E. Daniels Jr.
Governor

Thomas W. Easterly
Commissioner

100 North Senate Avenue
Indianapolis, Indiana 46204
(317) 232-8603
Toll Free (800) 451-6027
www.idem.IN.gov

TO: Interested Parties / Applicant

DATE: Apr. 7, 2011

RE: Cummins Industrial Ctr. / 071-29612-00015

FROM: Matthew Stuckey, Branch Chief
Permits Branch
Office of Air Quality

Notice of Decision: Approval – Effective Immediately

Please be advised that on behalf of the Commissioner of the Department of Environmental Management, I have issued a decision regarding the enclosed matter. Pursuant to IC 13-17-3-4 and 326 IAC 2, this permit modification is effective immediately, unless a petition for stay of effectiveness is filed and granted, and may be revoked or modified in accordance with the provisions of IC 13-15-7-1.

If you wish to challenge this decision, IC 4-21.5-3-7 and IC 13-15-7-3 require that you file a petition for administrative review. This petition may include a request for stay of effectiveness and must be submitted to the Office Environmental Adjudication, 100 North Senate Avenue, Government Center North, Suite N 501E, Indianapolis, IN 46204, **within eighteen (18) days of the mailing of this notice**. The filing of a petition for administrative review is complete on the earliest of the following dates that apply to the filing:

(1) the date the document is delivered to the Office of Environmental Adjudication (OEA);
(2) the date of the postmark on the envelope containing the document, if the document is mailed to OEA by U.S. mail; or
(3) The date on which the document is deposited with a private carrier, as shown by receipt issued by the carrier, if the document is sent to the OEA by private carrier.

The petition must include facts demonstrating that you are either the applicant, a person aggrieved or adversely affected by the decision or otherwise entitled to review by law. Please identify the permit, decision, or other order for which you seek review by permit number, name of the applicant, location, date of this notice and all of the following:

(1) the name and address of the person making the request;
(2) the interest of the person making the request;
(3) identification of any persons represented by the person making the request;
(4) the reasons, with particularity, for the request;
(5) the issues, with particularity, proposed for considerations at any hearing; and
(6) identification of the terms and conditions which, in the judgment of the person making the request, would be appropriate in the case in question to satisfy the requirements of the law governing documents of the type issued by the Commissioner.

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Pursuant to 326 IAC 2-7-18(d), any person may petition the U.S. EPA to object to the issuance of a Title V operating permit or modification within sixty (60) days of the end of the forty-five (45) day EPA review period. Such an objection must be based only on issues that were raised with reasonable specificity during the public comment period, unless the petitioner demonstrates that it was impractible to raise such issues, or if the grounds for such objection arose after the comment period.

To petition the U.S. EPA to object to the issuance of a Title V operating permit, contact:

U.S. Environmental Protection Agency
401 M Street
Washington, D.C. 20406

If you have technical questions regarding the enclosed documents, please contact the Office of Air Quality, Permits Branch at (317) 233-0178. Callers from within Indiana may call toll-free at 1-800-451-6027, ext. 3-0178.

Enclosures
FNTV-PMOD.doc 3/27/08

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Mr. David Wehrkamp
Cummins Industrial Center
800 East Third Street MC 30125
Seymour, IN 47274

Apr. 7, 2011

Re: 071-29612-00015
Significant Source Modification to:
Part 70 permit No.: T071-21065-00015

Dear Mr. Wehrkamp.:

Cummins Industrial Center was issued Part 70 operating permit T071-21605-00015 on December 28, 2006 for an internal combustion engine manufacturing plant, of which the testing and painting of the product is included. An application to modify the source was received on September 1, 2010. Pursuant to 326 IAC 2-7-10.5 the following emission units are approved for construction at the source:

(a) One (1) engineering engine test cell, identified as HHP6, approved for construction in 2011, may be powered by diesel, biodiesel JP8/JetA, propane natural gas blend or natural gas, with maximum output of 7032 hp and exhausting to stack HHP6.1.

(b) One (1) engineering engine test cell, identified as HHP8, approved for construction in 2011, may be powered by diesel, biodiesel, JP8/JetA, propane natural gas blend or natural gas, with maximum output of 7032 hp and exhausting to stack HHP8.1;

(c) One (1) engineering engine test cell, identified as HHP9, approved for construction in 2011, may be powered by diesel, biodiesel, JP8/JetA, propane natural gas blend or natural gas, with maximum output of 7032 hp and exhausting to stack HHP9.1;

(d) One (1) production engine test cell, identified as Production 1, approved for construction in 2011, may be powered by diesel, biodiesel with maximum output of 7032 hp and exhausting to stack Production 1.1.

(e) One (1) production engine test cell, identified as Production 2, approved for construction in 2011, may be powered by diesel, biodiesel with maximum output of 7032 hp and exhausting to stack Production 2.1.

(f) One (1) production engine test cell, identified as Production 3, approved for construction in 2011, may be powered by diesel, biodiesel with maximum output of 7032 hp and exhausting to stack Production 3.1.

(g) One (1) engineering engine test cell, identified as HHP7, approved for construction in 2011, may be powered by natural gas, biodiesel, JP8/JetA, propane natural gas blend or

diesel fuel, with maximum output of 5685 hp and exhausting to stack HHP7.1.

(h) One (1) engineering engine test cell, identified as HHP10, approved for construction in 2011, may be powered by natural gas, biodiesel, JP8/JetA, propane natural gas blend or diesel fuel, with maximum output of 5685 hp, and exhausting to stack HHP10.1.

(i) Twenty-two (22) natural gas-fired boilers, identified as EU03C-EU03X, approved for construction in 2011, with EU003C-EU03V each having a maximum capacity of 2.0 MMBtu per hour and EU03W-EU03X, each having a maximum capacity of 4.2 MMBtu per hour, and exhausting to stacks B3-28, respectively.

Insignificant Unit

(a) One (1) emergency diesel powered generator with maximum capacity of 1490 horse power. [Under 40 CFR 60, Subpart IIII, the emergency generator is considered a new affected source.][Under 40 CFR 63, Subpart ZZZZ, the emergency generator is considered a new affected source.]

The following construction conditions are applicable to the proposed project:

General Construction Conditions

1. The data and information supplied with the application shall be considered part of this source modification approval. Prior to any proposed change in construction which may affect the potential to emit (PTE) of the proposed project, the change must be approved by the Office of Air Management (OAM).

2. This approval to construct does not relieve the permittee of the responsibility to comply with the provisions of the Indiana Environmental Management Law (IC 13-11 through 13-20; 13-22 through 13-25; and 13-30), the Air Pollution Control Law (IC 13-17) and the rules promulgated thereunder, as well as other applicable local, state, and federal requirements.

3. Effective Date of the Permit
Pursuant to IC 13-15-5-3, this approval becomes effective upon its issuance.

4. Pursuant to 326 IAC 2-1.1-9 and 326 IAC 2-7-10.5(i), the Commissioner may revoke this approval if construction is not commenced within eighteen (18) months after receipt of this approval or if construction is suspended for a continuous period of one (1) year or more.

5. All requirements and conditions of this construction approval shall remain in effect unless modified in a manner consistent with procedures established pursuant to 326 IAC 2.

6. Pursuant to 326 IAC 2-7-10.5(l) the emission units constructed under this approval shall not be placed into operation prior to revision of the source's Part 70 Operating Permit to incorporate the required operation conditions.

This significant source modification authorizes construction of the new emission units. Operating conditions shall be incorporated into the Part 70 operating permit as a significant permit modification in accordance with 326 IAC 2-7-10.5(l)(2) and 326 IAC 2-7-12. Operation is not approved until the significant permit modification has been issued.

This decision is subject to the Indiana Administrative Orders and Procedures Act - IC 4-21.5-3-5. If you have any questions on this matter call (800) 451-6027, press 0 and ask for Josiah Balogun or extension 4-5257, or dial (317) 234-5257.

Sincerely,

Tripuran Sinha

Tripuran P. Sinha, Ph. D., Section Chief
Permits Branch
Office of Air Quality

Attachments:
Updated Permit
Technical Support Document
PTE Calculations

JB

cc: File – Jackson County
Jackson County Health Department
U.S. EPA, Region V
SWRO and SERO
Compliance and Enforcement Branch

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Significant Source Modification to a Part 70 Permit
OFFICE OF AIR QUALITY

Cummins Industrial Center
800 East Third Street
Seymour, Indiana 47274

(herein known as the Permittee) is hereby authorized to construct subject to the conditions contained herein, the source described in Section A (Source Summary) of this permit.

This permit is issued in accordance with 326 IAC 2 and 40 CFR Part 70 Appendix A and contains the conditions and provisions specified in 326 IAC 2-7 as required by 42 U.S.C. 7401, et. seq. (Clean Air Act as amended by the 1990 Clean Air Act Amendments), 40 CFR Part 70.6, IC 13-15 and IC 13-17.
This permit also addresses certain new source review requirements for existing equipment and is intended to fulfill the new source review procedures pursuant to 326 IAC 2-7-10.5, applicable to those conditions

Significant Source Modification No.: 071-29612-00015	
Issued by: Tripurari Sinha Tripurari P. Sinha Ph.D, Section Chief Permits Branch Office of Air Quality	Issuance Date: April 7, 2011

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Part 70 Quarterly Reports
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Attachment A: 40 CFR Part 63, Subpart ZZZZ

Attachment B: 40 CFR Part 60, Subpart IIII

SECTION A SOURCE SUMMARY

This permit is based on information requested by the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ). The information describing the source contained in conditions A.1 through A.3 is descriptive information and does not constitute enforceable conditions. However, the Permittee should be aware that a physical change or a change in the method of operation that may render this descriptive information obsolete or inaccurate may trigger requirements for the Permittee to obtain additional permits or seek modification of this permit pursuant to 326 IAC 2, or change other applicable requirements presented in the permit application.

A.1 General Information [326 IAC 2-7-4(c)] [326 IAC 2-7-5(15)] [326 IAC 2-7-1(22)]

The Permittee owns and operates a stationary internal combustion engine manufacturing plant, of which the testing and painting of the product is included.

Source Address:	800 East Third Street, Seymour, Indiana 47274
General Source Phone Number:	(812)524-6325
SIC Code:	3519
County Location:	Jackson
Source Location Status:	Attainment for all criteria pollutants
Source Status:	Part 70 Permit Program Major Source under PSD; Minor Source, Section 112 of the Clean Air Act

A.2 Emission Units and Pollution Control Equipment Summary [326 IAC 2-7-4(c)(3)] [326 IAC 2-7-5(15)]

This stationary source consists of the following emission units and pollution control devices:

(a) One (1) paint spray line, identified as EU-01, consisting of the following equipment:

(1) One (1) primer spray booth, identified as EU-01A, constructed in 1986, with a maximum capacity of 3 engines per hour, equipped with dry filters for overspray control, exhausting to stacks S1 and S2.

(2) One (1) top coat spray booth, identified as EU-01B, constructed in 1995, with a maximum capacity of 3 engines per hour, equipped with dry filters for overspray control, exhausting to stacks S3 and S4.

(3) One (1) touch-up spray booth, identified as EU-01C, constructed in 1986, with a maximum capacity of 3 engines per hour, equipped with dry filters for overspray control, exhausting to stacks S5 and S6.

(4) One (1) offline spray booth, identified as EU-01D, constructed in 1986, with a maximum capacity of 3 engines per hour, equipped with dry filters for overspray control, exhausting to stack S7.

(5) One (1) small parts spray booth, identified as EU-01F, constructed in 1986, with a maximum capacity of 3 engines per hour, equipped with dry filters for overspray control, exhausting to stack S8.

(b) Six (6) production engine test cells, identified as EU-02A, constructed in 1978, consisting of the following equipment:

(1) Three (3) diesel-powered production engine test cells, identified as 801, 802, and 803, with maximum outputs of 1000, 1000 and 1650 hp respectively, with heat inputs of 6.41, 6.41 and 10.57 MMBtu/hr, respectively and exhausting to stacks 801.1 - 801.2, 802.1 - 802.2, and 803.1 and 803.2, respectively;

(2) Two (2) diesel-powered production engine test cells, identified as 804 and 805, with maximum outputs of 1650 hp, each, with heat input of 10.57 MMBtu/hr each and exhausting to stacks 804 and 805, respectively; and

(3) One (1) diesel-powered or natural gas-fired production engine test cell, identified as 808, with maximum output of 1650 hp when combusting diesel fuel or 600hp when combusting natural gas, with heat input of 10.57 MMBtu/hr when combusting diesel fuel or 4.1 MMBtu/hr when combusting natural gas and exhausting to stack 808.

(c) Ten (10) engineering engine test cells, identified as EU-02B, installed in 1978, consisting of the following equipment:

(1) Two (2) diesel or biodiesel-powered engineering engine test cells, identified as 806 and 807, may be alternatively powered by liquid propane or natural gas with maximum outputs of 1800 hp, each, when combusting diesel or biodiesel, or 1800hp, each, when combusting liquid propane or natural gas and exhausting to stacks 806 and 807, respectively;

(2) One (1) diesel or biodiesel-powered engineering engine test cell~~s~~, identified as HHP1, may be alternatively powered by liquid propane or natural gas, with maximum output of 4500 hp, when combusting diesel or biodiesel or 2200 hp when combusting liquid propane or natural gas, with heat input of 28.82 MMBtu/hr when combusting diesel or biodiesel or 14.40 MMBtu/hr when combusting liquid propane and natural gas and exhausting to stack HHP1;

(3) One (1) diesel or biodiesel-powered engineering engine test cells, identified as HHP2, with maximum output of 4500 hp when combusting diesel or biodiesel, with heat input of 28.82 MMBtu/hr and exhausting to stack HHP2;

(4) One (1) diesel or biodiesel-powered engineering engine test cell, identified as HHP3, may be alternatively powered by liquid propane or natural gas, with maximum output of 4500 hp when combusting diesel or biodiesel and 4500hp when combusting liquid propane or natural gas, with heat input of 28.82 MMBtu/hr when combusting diesel/biodiesel or liquid propane/natural gas and exhausting to stacks HHP3.1 and HHP3.2;

(5) One (1) diesel or biodiesel-powered engineering test cell, identified as HHP5, may be alternatively powered by liquid propane or natural gas, with output of 2200 hp when combusting diesel or biodiesel or 600 hp when combusting liquid propane or natural gas, with heat input of 14.09 MMBtu/hr when combusting diesel or biodiesel or 4.10 when combusting liquid propane or natural gas and exhausting to stack HHP5.1 - HHP5.2;

(6) One (1) diesel or biodiesel-powered engine test pad 8 (PI), identified as PI, may be alternatively powered by liquid propane or natural gas, with maximum outputs of 3000 hp when combusting diesel or biodiesel or 2200 hp when combusting liquid propane or natural gas, with heat input of 19.22 MMBtu/hr when combusting diesel or biodiesel and 14.40 MMBtu/hr when combusting liquid propane or natural gas and exhausting to stacks PD8.1 and PD8.2;

(7) Two (2) diesel or biodiesel-powered engine test pad 10(PI) and 11(PI), identified as PI, may be alternatively powered by liquid propane or natural gas, with maximum outputs of 1850, each, when combusting diesel, or biodiesel, or 1850 hp, each when combusting liquid propane or natural gas, with heat input of 11.85 MMBtu/hr, each, when combusting diesel, or biodiesel or 12.70 MMBtu/hr, each when combusting liquid propane or natural gas and exhausting to stacks PD10.1 and PD11.1; and

(8) One (1) diesel or biodiesel-powered engineering engine test cell, identified as HHP4, may be alternatively powered by liquid propane or natural gas, with a maximum output of 2200 hp when combusting diesel or biodiesel and 2200hp when combusting liquid propane or natural gas and a heat input of 14.09 MMBtu per hour when combusting diesel or biodiesel or 14.40 MMBtu/hr when combusting liquid propane or natural gas and exhausting to stacks HHP4.1 and HHP4.2.

(d) One (1) diesel or biodiesel-powered engineering engine test cell Test Pad 9, identified as EU-02C, installed in 2005, may be alternatively powered by liquid propane or natural gas, with maximum outputs of 4500 hp when combusting diesel or biodiese or 2200 hp when combusting liquid propane or natural gas, exhausting to stacks PD9.1 and PD9.2.

(e) One (1) engineering engine test cell, identified as HHP6, approved for construction in 2011, may be powered by diesel, biodiesel JP8/JetA, propane natural gas blend or natural gas, with maximum output of 7032 hp and exhausting to stack HHP6.1.

(f) One (1) engineering engine test cell, identified as HHP8, approved for construction in 2011, may be powered by diesel, biodiesel, JP8/JetA, propane natural gas blend or natural gas, with maximum output of 7032 hp and exhausting to stack HHP8.1;

(g) One (1) engineering engine test cell, identified as HHP9, approved for construction in 2011, may be powered by diesel, biodiesel, JP8/JetA, propane natural gas blend or natural gas, with maximum output of 7032 hp and exhausting to stack HHP9.1;

(h) One (1) production engine test cell, identified as Production 1, approved for construction in 2011, may be powered by diesel, biodiesel with maximum output of 7032 hp and exhausting to stack Production 1.1.

(i) One (1) production engine test cell, identified as Production 2, approved for construction in 2011, may be powered by diesel, biodiesel with maximum output of 7032 hp and exhausting to stack Production 2.1.

(j) One (1) production engine test cell, identified as Production 3, approved for construction in 2011, may be powered by diesel, biodiesel with maximum output of 7032 hp and exhausting to stack Production 3.1.

(k) One (1) engineering engine test cell, identified as HHP7, approved for construction in 2011, may be powered by natural gas, biodiesel, JP8/JetA, propane natural gas blend or diesel fuel, with maximum output of 5685 hp and exhausting to stack HHP7.1.

(l) One (1) engineering engine test cell, identified as HHP10, approved for construction in 2011, may be powered by natural gas, biodiesel, JP8/JetA, propane natural gas blend or diesel fuel, with maximum output of 5685 hp, and exhausting to stack HHP10.1.

(m) Twenty-two (22) natural gas-fired boilers, identified as EU03C-EU03X, approved for construction in 2011, with EU003C-EU03V each having a maximum capacity of 2.0 MMBtu per hour and EU03W-EU03X, each having a maximum capacity of 4.2 MMBtu per hour, and exhausting to stacks B3-28, respectively.

(n) Two (2) natural gas-fired boilers, identified as EU-03A and EU-03B, installed in 1978, exhausting to stacks B1 and B2, respectively, each rated at 20.9 MMBtu per hour.

A.3 Specifically Regulated Insignificant Activities [326 IAC 2-7-1(21)] [326 IAC 2-7-4(c)] [326 IAC 2-7-5(15)]

This stationary source also includes the following insignificant activities which are specifically regulated, as defined in 326 IAC 2-7-1(21):

(a) Degreasing operations that do not exceed 145 gallons per 12 months, except if subject to 326 IAC 20-6. [326 IAC 8-3];

(b) The following equipment related to manufacturing activities not resulting in the emission of HAPs: brazing equipment, cutting torches, soldering equipment, welding equipment. [326 IAC 6-3];

(c) Grinding and machining operations controlled with fabric filters, scrubbers, mist collectors, wet collectors and electrostatic precipitators with a design grain loading of less than or equal to 0.03 grains per actual cubic foot and a gas flow rate less than or equal to 4,000 actual cubic feet per minute, including the following: deburring; buffing; polishing; abrasive blasting; pneumatic conveying; and woodworking operations. [326 IAC 6-3]; and

(d) One (1) 25,000 gallon No.2 diesel storage tank. [326 IAC 12] [40 CFR 60.116b, Subpart Kb]

(e) One (1) emergency diesel powered generator with maximum capacity of 1490 horse power. [Under 40 CFR 60, Subpart IIII, the emergency generator is considered a new affected source.][Under 40 CFR 63, Subpart ZZZZ, the emergency generator is considered a new affected source.]

A.4 Part 70 Permit Applicability [326 IAC 2-7-2]

This stationary source is required to have a Part 70 permit by 326 IAC 2-7-2 (Applicability) because:

(a) It is a major source, as defined in 326 IAC 2-7-1(22);

(b) It is a source in a source category designated by the United States Environmental Protection Agency (U.S. EPA) under 40 CFR 70.3 (Part 70 - Applicability).

SECTION B GENERAL CONDITIONS

B.1 Definitions [326 IAC 2-7-1]

Terms in this permit shall have the definition assigned to such terms in the referenced regulation. In the absence of definitions in the referenced regulation, the applicable definitions found in the statutes or regulations (IC 13-11, 326 IAC 1-2 and 326 IAC 2-7) shall prevail.

B.2 Permit Term [326 IAC 2-7-5(2)] [326 IAC 2-1.1-9.5] [326 IAC 2-7-4(a)(1)(D)] [IC 13-15-3-6(a)]

(a) This permit, T071-21065-00015, is issued for a fixed term of five (5) years from the issuance date of this permit, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date of this permit.

(b) If IDEM, OAQ, upon receiving a timely and complete renewal permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect, including any permit shield provided in 326 IAC 2-7-15, until the renewal permit has been issued or denied.

B.3 Term of Conditions [326 IAC 2-1.1-9.5]

Notwithstanding the permit term of a permit to construct, a permit to operate, or a permit modification, any condition established in a permit issued pursuant to a permitting program approved in the state implementation plan shall remain in effect until:

(a) the condition is modified in a subsequent permit action pursuant to Title I of the Clean Air Act; or

(b) the emission unit to which the condition pertains permanently ceases operation.

B.4 Enforceability [326 IAC 2-7-7]

Unless otherwise stated, all terms and conditions in this permit, including any provisions designed to limit the source's potential to emit, are enforceable by IDEM, the United States Environmental Protection Agency (U.S. EPA) and by citizens in accordance with the Clean Air Act.

B.5 Severability [326 IAC 2-7-5(5)]

The provisions of this permit are severable; a determination that any portion of this permit is invalid shall not affect the validity of the remainder of the permit.

B.6 Property Rights or Exclusive Privilege [326 IAC 2-7-5(6)(D)]

This permit does not convey any property rights of any sort or any exclusive privilege.

B.7 Duty to Provide Information [326 IAC 2-7-5(6)(E)]

(a) The Permittee shall furnish to IDEM, OAQ, within a reasonable time, any information that IDEM, OAQ, may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The submittal by the Permittee does require the certification by the “responsible official” as defined by 326 IAC 2-7-1(34). Upon request, the Permittee shall also furnish to IDEM, OAQ, copies of records required to be kept by this permit.

(b) For information furnished by the Permittee to IDEM, OAQ, the Permittee may include a claim of confidentiality in accordance with 326 IAC 17.1. When furnishing copies of requested records directly to U.S. EPA, the Permittee may assert a claim of confidentiality in accordance with 40 CFR 2, Subpart B.

B.8 Certification [326 IAC 2-7-4(f)] [326 IAC 2-7-6(1)] [326 IAC 2-7-5(3)(C)]

(a) Where specifically designated by this permit or required by an applicable requirement, any application form, report, or compliance certification submitted shall contain certification by a responsible official of truth, accuracy, and completeness. This certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

(b) One (1) certification shall be included, using the attached Certification Form, with each submittal requiring certification. One (1) certification may cover multiple forms in one (1) submittal.

(c) A responsible official is defined at 326 IAC 2-7-1(34).

B.9 Annual Compliance Certification [326 IAC 2-7-6(5)]

(a) The Permittee shall annually submit a compliance certification report which addresses the status of the source's compliance with the terms and conditions contained in this permit, including emission limitations, standards, or work practices. The initial certification shall cover the time period from the date of final permit issuance through December 31 of the same year. All subsequent certifications shall cover the time period from January 1 to December 31 of the previous year, and shall be submitted no later than July 1 of each year to:

Indiana Department of Environmental Management
Compliance and Enforcement Branch, Office of Air Quality
100 North Senate Avenue
MC61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

and

United States Environmental Protection Agency, Region V
Air and Radiation Division, Air Enforcement Branch - Indiana (AE-17J)
77 West Jackson Boulevard
Chicago, Illinois 60604-3590

(b) The annual compliance certification report required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, on or before the date it is due.

(c) The annual compliance certification report shall include the following:

(1) The appropriate identification of each term or condition of this permit that is the basis of the certification;

(2) The compliance status;

(3) Whether compliance was continuous or intermittent;

(4) The methods used for determining the compliance status of the source, currently and over the reporting period consistent with 326 IAC 2-7-5(3); and

(5) Such other facts, as specified in Sections D of this permit, as IDEM, OAQ, may require to determine the compliance status of the source.

The submittal by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

B.10 Preventive Maintenance Plan [326 IAC 2-7-5(1),(3) and (13)] [326 IAC 2-7-6(1) and (6)] [326 IAC 1-6-3]

(a) If required by specific condition(s) in Section D of this permit, the Permittee shall maintain and implement Preventive Maintenance Plans (PMPs) including the following information on each facility:

(1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;

(2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and

(3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

(b) A copy of the PMPs shall be submitted to IDEM, OAQ, upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ, may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or is the primary contributor to an exceedance of any limitation on emissions or potential to emit. The PMPs do not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

(c) To the extent the Permittee is required by 40 CFR Part 60/63 to have an Operation Maintenance, and Monitoring (OMM) Plan for a unit, such Plan is deemed to satisfy the PMP requirements of 326 IAC 1-6-3 for that unit.

B.11 Emergency Provisions [326 IAC 2-7-16]

(a) An emergency, as defined in 326 IAC 2-7-1(12), is not an affirmative defense for an action brought for noncompliance with a federal or state health-based emission limitation.

(b) An emergency, as defined in 326 IAC 2-7-1(12), constitutes an affirmative defense to an action brought for noncompliance with a technology-based emission limitation if the affirmative defense of an emergency is demonstrated through properly signed, contemporaneous operating logs or other relevant evidence that describe the following:

(1) An emergency occurred and the Permittee can, to the extent possible, identify the causes of the emergency;

(2) The permitted facility was at the time being properly operated;

(3) During the period of an emergency, the Permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards or other requirements in this permit;

(4) For each emergency lasting one (1) hour or more, the Permittee notified IDEM, OAQ, within four (4) daytime business hours after the beginning of the emergency, or after the emergency was discovered or reasonably should have been discovered;

Telephone Number: 1-800-451-6027 (ask for Office of Air Quality, Compliance Section), or
Telephone Number: 317-233-0178 (ask for Compliance Section)
Facsimile Number: 317-233-6865

(5) For each emergency lasting one (1) hour or more, the Permittee submitted the attached Emergency Occurrence Report Form or its equivalent, either by mail or facsimile to:

Indiana Department of Environmental Management
Compliance and Enforcement Branch, Office of Air Quality
100 North Senate Avenue
MC61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

within two (2) working days of the time when emission limitations were exceeded due to the emergency.

The notice fulfills the requirement of 326 IAC 2-7-5(3)(C)(ii) and must contain the following:

(A) A description of the emergency;

(B) Any steps taken to mitigate the emissions; and

(C) Corrective actions taken.

The notification, which shall be submitted by the Permittee, does not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

(6) The Permittee immediately took all reasonable steps to correct the emergency.

(c) In any enforcement proceeding, the Permittee seeking to establish the occurrence of an emergency has the burden of proof.

(d) This emergency provision supersedes 326 IAC 1-6 (Malfunctions). This permit condition is in addition to any emergency or upset provision contained in any applicable requirement.

(e) The Permittee seeking to establish the occurrence of an emergency shall make records available upon request to ensure that failure to implement a PMP did not cause or contribute to an exceedance of any limitations on emissions. However, IDEM, OAQ, may require that the Preventive Maintenance Plans required under 326 IAC 2-7-4(c)(9) be revised in response to an emergency.

(f) Failure to notify IDEM, OAQ, by telephone or facsimile of an emergency lasting more than one (1) hour in accordance with (b)(4) and (5) of this condition shall constitute a violation of 326 IAC 2-7 and any other applicable rules.

(g) If the emergency situation causes a deviation from a technology-based limit, the Permittee may continue to operate the affected emitting facilities during the emergency provided the Permittee immediately takes all reasonable steps to correct the emergency and minimize emissions.

(h) The Permittee shall include all emergencies in the Quarterly Deviation and Compliance Monitoring Report.

B.12 Permit Shield [326 IAC 2-7-15] [326 IAC 2-7-20] [326 IAC 2-7-12]

(a) Pursuant to 326 IAC 2-7-15, the Permittee has been granted a permit shield. The permit shield provides that compliance with the conditions of this permit shall be deemed compliance with any applicable requirements as of the date of permit issuance, provided that either the applicable requirements are included and specifically identified in this permit or the permit contains an explicit determination or concise summary of a determination that other specifically identified requirements are not applicable. The Indiana statutes from IC 13 and rules from 326 IAC, referenced in conditions in this permit, are those applicable at the time the permit was issued. The issuance or possession of this permit shall not alone constitute a defense against an alleged violation of any law, regulation or standard, except for the requirement to obtain a Part 70 permit under 326 IAC 2-7 or for applicable requirements for which a permit shield has been granted.

This permit shield does not extend to applicable requirements which are promulgated after the date of issuance of this permit unless this permit has been modified to reflect such new requirements.

(b) If, after issuance of this permit, it is determined that the permit is in nonconformance with an applicable requirement that applied to the source on the date of permit issuance, IDEM, OAQ, shall immediately take steps to reopen and revise this permit and issue a compliance order to the Permittee to ensure expeditious compliance with the applicable requirement until the permit is reissued. The permit shield shall continue in effect so long as the Permittee is in compliance with the compliance order.

(c) No permit shield shall apply to any permit term or condition that is determined after issuance of this permit to have been based on erroneous information supplied in the permit application. Erroneous information means information that the Permittee knew to be false, or in the exercise of reasonable care should have been known to be false, at the time the information was submitted.

(d) Nothing in 326 IAC 2-7-15 or in this permit shall alter or affect the following:

(1) The provisions of Section 303 of the Clean Air Act (emergency orders), including the authority of the U.S. EPA under Section 303 of the Clean Air Act;

(2) The liability of the Permittee for any violation of applicable requirements prior to or at the time of this permit's issuance;

(3) The applicable requirements of the acid rain program, consistent with Section 408(a) of the Clean Air Act; and

(4) The ability of U.S. EPA to obtain information from the Permittee under Section 114 of the Clean Air Act.

(e) This permit shield is not applicable to any change made under 326 IAC 2-7-20(b)(2) (Sections 502(b)(10) of the Clean Air Act changes) and 326 IAC 2-7-20(c)(2) (trading based on State Implementation Plan (SIP) provisions).

(f) This permit shield is not applicable to modifications eligible for group processing until after IDEM, OAQ, has issued the modifications. [326 IAC 2-7-12(c)(7)]

(g) This permit shield is not applicable to minor Part 70 permit modifications until after IDEM, OAQ, has issued the modification. [326 IAC 2-7-12(b)(8)]

B.13 Prior Permits Superseded [326 IAC 2-1.1-9.5] [326 IAC 2-7-10.5]

(a) All terms and conditions of permits established prior to T017-21065-00015 and issued pursuant to permitting programs approved into the state implementation plan have been:

(1) incorporated as originally stated,

(2) revised under 326 IAC 2-7-10.5, or

(3) deleted under 326 IAC 2-7-10.5.

(b) Provided that all terms and conditions are accurately reflected in this combined permit, all previous registrations and permits are superseded by this combined new source review and part 70 operating permit

B.14 Termination of Right to Operate [326 IAC 2-7-10] [326 IAC 2-7-4(a)]

The Permittee's right to operate this source terminates with the expiration of this permit unless a timely and complete renewal application is submitted at least nine (9) months prior to the date of expiration of the source's existing permit, consistent with 326 IAC 2-7-3 and 326 IAC 2-7-4(a).

B.15 Deviations from Permit Requirements and Conditions [326 IAC 2-7-5(3)(C)(ii)]

(a) Deviations from any permit requirements (for emergencies see Section B - Emergency Provisions), the probable cause of such deviations, and any response steps or preventive measures taken shall be reported to:

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Quality
100 North Senate Avenue
MC61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

using the attached Quarterly Deviation and Compliance Monitoring Report, or its equivalent. A deviation required to be reported pursuant to an applicable requirement that exists independent of this permit, shall be reported according to the schedule stated in the applicable requirement and does not need to be included in this report.

The Quarterly Deviation and Compliance Monitoring Report does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

(b) A deviation is an exceedance of a permit limitation or a failure to comply with a requirement of the permit.

B.16 Permit Modification, Reopening, Revocation and Reissuance, or Termination [326 IAC 2-7-5(6)(C)] [326 IAC 2-7-8(a)] [326 IAC 2-7-9]

(a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a Part 70 permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any condition of this permit. [326 IAC 2-7-5(6)(C)] The notification by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

(b) This permit shall be reopened and revised under any of the circumstances listed in IC 13-15-7-2 or if IDEM, OAQ, determines any of the following:

(1) That this permit contains a material mistake.

(2) That inaccurate statements were made in establishing the emissions standards or other terms or conditions.

(3) That this permit must be revised or revoked to assure compliance with an applicable requirement. [326 IAC 2-7-9(a)(3)]

(c) Proceedings by IDEM, OAQ, to reopen and revise this permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of this permit for which cause to reopen exists. Such reopening and revision shall be made as expeditiously as practicable. [326 IAC 2-7-9(b)]

(d) The reopening and revision of this permit, under 326 IAC 2-7-9(a), shall not be initiated before notice of such intent is provided to the Permittee by IDEM, OAQ, at least thirty (30) days in advance of the date this permit is to be reopened, except that IDEM, OAQ, may provide a shorter time period in the case of an emergency. [326 IAC 2-7-9(c)]

B.17 Permit Renewal [326 IAC 2-7-3] [326 IAC 2-7-4] [326 IAC 2-7-8(e)]

(a) The application for renewal shall be submitted using the application form or forms prescribed by IDEM, OAQ, and shall include the information specified in 326 IAC 2-7-4. Such information shall be included in the application for each emission unit at this source, except those emission units included on the trivial or insignificant activities list contained in 326 IAC 2-7-1(21) and 326 IAC 2-7-1(40). The renewal application does require the certification by the “responsible official” as defined by 326 IAC 2-7-1(34).

Request for renewal shall be submitted to:

Indiana Department of Environmental Management
Permits Administration and Support Section (PASS), Office of Air Quality
100 North Senate Avenue
MC61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

(b) A timely renewal application is one that is:

(1) Submitted at least nine (9) months prior to the date of the expiration of this permit; and

(2) If the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, on or before the date it is due.

(c) If the Permittee submits a timely and complete application for renewal of this permit, the source’s failure to have a permit is not a violation of 326 IAC 2-7 until IDEM, OAQ, takes final action on the renewal application, except that this protection shall cease to apply if, subsequent to the completeness determination, the Permittee fails to submit by the deadline specified in writing by IDEM, OAQ, any additional information identified as being needed to process the application.

B.18 Permit Amendment or Modification [326 IAC 2-7-11] [326 IAC 2-7-12]

(a) Permit amendments and modifications are governed by the requirements of 326 IAC 2-7-11 or 326 IAC 2-7-12 whenever the Permittee seeks to amend or modify this permit.

(b) Any application requesting an amendment or modification of this permit shall be submitted to:

Indiana Department of Environmental Management
Permits Administration and Support Section (PASS), Office of Air Quality
100 North Senate Avenue
MC61-53 IGCN 1003

Indianapolis, Indiana 46204-2251

Any such application shall be certified by the "responsible official" as defined by 326 IAC 2-7-1(34).

(c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-7-11(c)(3)]

B.19 Permit Revision Under Economic Incentives and Other Programs [326 IAC 2-7-5(8)] [326 IAC 2-7-12 (b)(2)]

(a) No Part 70 permit revision shall be required under any approved economic incentives, marketable Part 70 permits, emissions trading, and other similar programs or processes for changes that are provided for in a Part 70 permit.

(b) Notwithstanding 326 IAC 2-7-12(b)(1) and 326 IAC 2-7-12(c)(1), minor Part 70 permit modification procedures may be used for Part 70 modifications involving the use of economic incentives, marketable Part 70 permits, emissions trading, and other similar approaches to the extent that such minor Part 70 permit modification procedures are explicitly provided for in the applicable State Implementation Plan (SIP) or in applicable requirements promulgated or approved by the U.S. EPA.

B.20 Operational Flexibility [326 IAC 2-7-20] [326 IAC 2-7-10.5]

(a) The Permittee may make any change or changes at the source that are described in 326 IAC 2-7-20(b), (c), or (e), without a prior permit revision, if each of the following conditions is met:

(1) The changes are not modifications under any provision of Title I of the Clean Air Act;

(2) Any preconstruction approval required by 326 IAC 2-7-10.5 has been obtained;

(3) The changes do not result in emissions which exceed the limitations provided in this permit (whether expressed herein as a rate of emissions or in terms of total emissions);

(4) The Permittee notifies the:

Indiana Department of Environmental Management
Permits Administration and Support Section (PASS), Office of Air Quality
100 North Senate Avenue
MC61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

and

United States Environmental Protection Agency, Region V
Air and Radiation Division, Regulation Development Branch - Indiana (AR-18J)
77 West Jackson Boulevard
Chicago, Illinois 60604-3590

in advance of the change by written notification at least ten (10) days in advance of the proposed change. The Permittee shall attach every such notice to the Permittee's copy of this permit; and

(5) The Permittee maintains records on-site, on a rolling five (5) year basis, which document all such changes and emission trades that are subject to 326 IAC 2-7-20(b), (c), or (e). The Permittee shall make such records available, upon reasonable request, for public review.

Such records shall consist of all information required to be submitted to IDEM, OAQ, in the notices specified in 326 IAC 2-7-20(b)(1), (c)(1), and (e)(2).

(b) The Permittee may make Section 502(b)(10) of the Clean Air Act changes (this term is defined at 326 IAC 2-7-1(36)) without a permit revision, subject to the constraint of 326 IAC 2-7-20(a). For each such Section 502(b)(10) of the Clean Air Act change, the required written notification shall include the following:

(1) A brief description of the change within the source;

(2) The date on which the change will occur;

(3) Any change in emissions; and

(4) Any permit term or condition that is no longer applicable as a result of the change.

The notification which shall be submitted is not considered an application form, report or compliance certification. Therefore, the notification by the Permittee does not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

(c) Emission Trades [326 IAC 2-7-20(c)]
The Permittee may trade emissions increases and decreases at the source, where the applicable SIP provides for such emission trades without requiring a permit revision, subject to the constraints of Section (a) of this condition and those in 326 IAC 2-7-20(c).

(d) Alternative Operating Scenarios [326 IAC 2-7-20(d)]
The Permittee may make changes at the source within the range of alternative operating scenarios that are described in the terms and conditions of this permit in accordance with 326 IAC 2-7-5(9). No prior notification of IDEM, OAQ, or U.S. EPA is required.

(e) Backup fuel switches specifically addressed in, and limited under, Section D of this permit shall not be considered alternative operating scenarios. Therefore, the notification requirements of part (a) of this condition do not apply.

B.21 Source Modification Requirement [326 IAC 2-7-10.5]

A modification, construction, or reconstruction is governed by the requirements of 326 IAC 2.

B.22 Inspection and Entry [326 IAC 2-7-6] [IC 13-14-2-2] [IC 13-30-3-1] [IC 13-17-3-2]

Upon presentation of proper identification cards, credentials, and other documents as may be required by law, and subject to the Permittee's right under all applicable laws and regulations to assert that the information collected by the agency is confidential and entitled to be treated as such, the Permittee shall allow IDEM, OAQ, U.S. EPA, or an authorized representative to perform the following:

(a) Enter upon the Permittee's premises where a Part 70 source is located, or emissions related activity is conducted, or where records must be kept under the conditions of this permit;

(b) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, have access to and copy any records that must be kept under the conditions of this permit;

(c) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, inspect any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit;

(d) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, sample or monitor substances or parameters for the purpose of assuring compliance with this permit or applicable requirements; and

(e) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of assuring compliance with this permit or applicable requirements.

B.23 Transfer of Ownership or Operational Control [326 IAC 2-7-11]

(a) The Permittee must comply with the requirements of 326 IAC 2-7-11 whenever the Permittee seeks to change the ownership or operational control of the source and no other change in the permit is necessary.

(b) Any application requesting a change in the ownership or operational control of the source shall contain a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new Permittee. The application shall be submitted to:

Indiana Department of Environmental Management
Permits Administration and Support Section (PASS), Office of Air Quality
100 North Senate Avenue

Indianapolis, Indiana 46204-2251

The application, which shall be submitted by the Permittee, does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

(c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-7-11(c)(3)]

B.24 Annual Fee Payment [326 IAC 2-7-19] [326 IAC 2-7-5(7)][326 IAC 2-1.1-7]

(a) The Permittee shall pay annual fees to IDEM, OAQ, within thirty (30) calendar days of receipt of a billing. In the event that the source is a sub-contractor and is combined with a larger Part 70 source, the larger Part 70 source may pay the Permittees' annual fees as part of the larger source billing and subject to the fee cap of the larger source. If, however, the larger Part 70 does not pay its annual Part permit fee, IDEM, OAQ will assess a separate fee in accordance with 326 IAC 2-7-19(c) to be paid by the Permittee. Pursuant to 326 IAC 2-7-19(b), if the Permittee does not receive a bill from IDEM, OAQ, the applicable fee is due April 1 of each year.

(b) Except as provided in 326 IAC 2-7-19(e), failure to pay may result in administrative enforcement action or revocation of this permit.

The Permittee may call the following telephone numbers: 1-800-451-6027 or 317-233-4230 (ask for OAQ, Billing, Licensing, and Training Section), to determine the appropriate permit fee.

B.25 Credible Evidence [326 IAC 1-1-6][326 IAC 2-7-5(3)][326 IAC 2-7-6][62 FR 8314]

For the purpose of submitting compliance certifications or establishing whether or not the Permittee has violated or is in violation of any condition of this permit, nothing in this permit shall preclude the use, including the exclusive use, of any credible evidence or information relevant to whether the Permittee would have been in compliance with the condition of this permit if the appropriate performance or compliance test or procedure had been performed.

Entire Source

Emission Limitations and Standards [326 IAC 2-7-5(1)]

C.1 Particulate Emission Limitations For Processes with Process Weight Rates Less Than One Hundred (100) Pounds per Hour [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2(e)(2), particulate emissions from any process not exempt under 326 IAC 6-3-1(b) or (c) which has a maximum process weight rate less than 100 pounds per hour and the methods in 326 IAC 6-3-2(b) through (d) do not apply shall not exceed 0.551 pounds per hour.

C.2 Opacity [326 IAC 5-1]

Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), opacity shall meet the following, unless otherwise stated in this permit:

(a) Opacity shall not exceed an average of forty percent (40%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.

(b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

C.3 Open Burning [326 IAC 4-1] [IC 13-17-9]

The Permittee shall not open burn any material except as provided in 326 IAC 4-1-3, 326 IAC 4-1-4 or 326 IAC 4-1-6. The previous sentence notwithstanding, the Permittee may open burn in accordance with an open burning approval issued by the Commissioner under 326 IAC 4-1-4.1. 326 IAC 4-1-3 (a)(2)(A) and (B) are not federally enforceable.

C.4 Incineration [326 IAC 4-2] [326 IAC 9-1-2]

The Permittee shall not operate an incinerator or incinerate any waste or refuse except as provided in 326 IAC 4-2 and 326 IAC 9-1-2.

C.5 Fugitive Dust Emissions [326 IAC 6-4]

The Permittee shall not allow fugitive dust to escape beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located, in a manner that would violate 326 IAC 6-4 (Fugitive Dust Emissions). 326 IAC 6-4-2(4) is not federally enforceable.

C.6 Operation of Equipment [326 IAC 2-7-6(6)]

Except as provided by statute, rule, or in this permit, all air pollution control equipment listed in this permit and used to comply with an applicable requirement shall be operated at all times that the emission unit(s) vented to the control equipment are in operation.

C.7 Stack Height [326 IAC 1-7]

The Permittee shall comply with the applicable provisions of 326 IAC 1-7 (Stack Height Provisions), for all exhaust stacks through which a potential (before controls) of twenty-five (25) tons per year or more of particulate matter or sulfur dioxide is emitted. The provisions of 326 IAC 1-7-1(3), 326 IAC 1-7-2, 326 IAC 1-7-3(c) and (d), 326 IAC 1-7-4, and 326 IAC 1-7-5(a), (b), and (d) are not federally enforceable.

C.8 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M]

The Permittee shall comply with the applicable requirements of 326 IAC 14-10, 326 IAC 18, and 40 CFR 61.140.

Testing Requirements [326 IAC 2-7-6(1)]

C.9 Performance Testing [326 IAC 3-6]

(a) All testing shall be performed according to the provisions of 326 IAC 3-6 (Source Sampling Procedures), except as provided elsewhere in this permit, utilizing any applicable procedures and analysis methods specified in 40 CFR 51, 40 CFR 60, 40 CFR 61, 40 CFR 63, 40 CFR 75, or other procedures approved by IDEM, OAQ.

A test protocol, except as provided elsewhere in this permit, shall be submitted to:

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Quality
100 North Senate Avenue
MC61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

no later than thirty-five (35) days prior to the intended test date. The protocol submitted by the Permittee does not require certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

(b) The Permittee shall notify IDEM, OAQ, of the actual test date at least fourteen (14) days prior to the actual test date. The notification submitted by the Permittee does not require certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

(c) Pursuant to 326 IAC 3-6-4(b), all test reports must be received by IDEM, OAQ, not later than forty-five (45) days after the completion of the testing. An extension may be granted by IDEM, OAQ, if the Permittee submits to IDEM, OAQ, a reasonable written explanation not later than five (5) days prior to the end of the initial forty-five (45) day period.

Compliance Requirements [326 IAC 2-1.1-11]

C.10 Compliance Requirements [326 IAC 2-1.1-11]

The commissioner may require stack testing, monitoring, or reporting at any time to assure compliance with all applicable requirements by issuing an order under 326 IAC 2-1.1-11. Any monitoring or testing shall be performed in accordance with 326 IAC 3 or other methods approved by the commissioner or the U.S. EPA.

Compliance Monitoring Requirements [326 IAC 2-7-5(1)] [326 IAC 2-7-6(1)]

C.11 Compliance Monitoring [326 IAC 2-7-5(3)] [326 IAC 2-7-6(1)]

Unless otherwise specified in this permit, all monitoring and record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance. If required by Section D, the Permittee shall be responsible for installing any necessary equipment and initiating any required monitoring related to that equipment. If due to circumstances beyond its control, that equipment cannot be installed and operated within ninety (90) days, the Permittee may extend the compliance schedule related to the equipment for an additional ninety (90) days provided the Permittee notifies:

Indiana Department of Environmental Management
Compliance and Enforcement Branch, Office of Air Quality
100 North Senate Avenue
MC61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

in writing, prior to the end of the initial ninety (90) day compliance schedule, with full justification of the reasons for the inability to meet this date.

The notification which shall be submitted by the Permittee does require the certification by the “responsible official” as defined by 326 IAC 2-7-1(34).

Unless otherwise specified in the approval for the new emission unit(s), compliance monitoring for new emission units or emission units added through a source modification shall be implemented when operation begins.

C.12 Monitoring Methods [326 IAC 3] [40 CFR 60] [40 CFR 63]

Any monitoring or testing required by Section D of this permit shall be performed according to the provisions of 326 IAC 3, 40 CFR 60, Appendix A, 40 CFR 60 Appendix B, 40 CFR 63, or other approved methods as specified in this permit.

C.13 Instrument Specifications [326 IAC 2-1.1-11] [326 IAC 2-7-5(3)] [326 IAC 2-7-6(1)]

(a) When required by any condition of this permit, an analog instrument used to measure a parameter related to the operation of an air pollution control device shall have a scale such that the expected maximum reading for the normal range shall be no less than twenty percent (20%) of full scale.

(b) The Permittee may request that the IDEM, OAQ, approve the use of an instrument that does not meet the above specifications provided the Permittee can demonstrate that an alternative instrument specification will adequately ensure compliance with permit conditions requiring the measurement of the parameters.

Corrective Actions and Response Steps [326 IAC 2-7-5] [326 IAC 2-7-6]

C.14 Emergency Reduction Plans [326 IAC 1-5-2] [326 IAC 1-5-3]

Pursuant to 326 IAC 1-5-2 (Emergency Reduction Plans; Submission):

(a) The Permittee prepared and submitted written emergency reduction plans (ERPs) consistent with safe operating procedures on December 13, 1996.

(b) Upon direct notification by IDEM, OAQ, that a specific air pollution episode level is in effect, the Permittee shall immediately put into effect the actions stipulated in the approved ERP for the appropriate episode level. [326 IAC 1-5-3]

C.15 Risk Management Plan [326 IAC 2-7-5(12)] [40 CFR 68]

If a regulated substance, as defined in 40 CFR 68, is present at a source in more than a threshold quantity, the Permittee must comply with the applicable requirements of 40 CFR 68.

C.16 Response to Excursions or Exceedances [326 IAC 2-7-5] [326 IAC 2-7-6]

(a) Upon detecting an excursion or exceedance, the Permittee shall restore operation of the emissions unit (including any control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions.

(b) The response shall include minimizing the period of any startup, shutdown or malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). Corrective actions may include, but are not limited to, the following:

(1) initial inspection and evaluation;

(2) recording that operations returned to normal without operator action (such as through response by a computerized distribution control system); or

(3) any necessary follow-up actions to return operation to within the indicator range, designated condition, or below the applicable emission limitation or standard, as applicable.

(c) A determination of whether the Permittee has used acceptable procedures in response to an excursion or exceedance will be based on information available, which may include, but is not limited to, the following:

(1) monitoring results;

(2) review of operation and maintenance procedures and records;

(3) inspection of the control device, associated capture system, and the process.

(d) Failure to take reasonable response steps shall be considered a deviation from the permit.

(e) The Permittee shall maintain the following records:

(1) monitoring data;

(2) monitor performance data, if applicable; and

(3) corrective actions taken.

C.17 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-7-5] [326 IAC 2-7-6]

(a) When the results of a stack test performed in conformance with Section C - Performance Testing, of this

permit exceed the level specified in any condition of this permit, the Permittee shall take appropriate response actions. The Permittee shall submit a description of these response actions to IDEM, OAQ, within thirty (30) days of receipt of the test results. The Permittee shall take appropriate action to minimize excess emissions from the affected facility while the response actions are being implemented.

(b) A retest to demonstrate compliance shall be performed within one hundred twenty (120) days of receipt of the original test results. Should the Permittee demonstrate to IDEM, OAQ, that retesting in one hundred and twenty (120) days is not practicable, IDEM, OAQ, may extend the retesting deadline.

(c) IDEM, OAQ, reserves the authority to take any actions allowed under law in response to noncompliant stack tests.

The response action documents submitted pursuant to this condition do require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

C.18 Emission Statement [326 IAC 2-7-5(3)(C)(iii)][326 IAC 2-7-5(7)][326 IAC 2-7-19(c)][326 IAC 2-6]

Pursuant to 326 IAC 2-6-3(a)(1), the Permittee shall submit by July 1 of each year an emission statement covering the previous calendar year. The emission statement shall contain, at a minimum, the information specified in 326 IAC 2-6-4(c) and shall meet the following requirements:

(1) Indicate estimated actual emissions of all pollutants listed in 326 IAC 2-6-4(a);

(2) Indicate estimated actual emissions of regulated pollutants as defined by 326 IAC 2-7-1 (32) ("Regulated pollutant, which is used only for purposes of Section 19 of this rule") from the source, for purpose of fee assessment.

The statement must be submitted to:

Indiana Department of Environmental Management
Technical Support and Modeling Section, Office of Air Quality
100 North Senate Avenue
MC61-50 IGCN 1003
Indianapolis, Indiana 46204-2251

The emission statement does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

(b) The emission statement required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, on or before the date it is due.

C.19 General Record Keeping Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-6] [326 IAC 2-2] [326 IAC 2-3]

(a) Records of all required monitoring data, reports and support information required by this permit shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. These records shall be physically present or electronically accessible at the source location for a minimum of three (3) years. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.

(b) Unless otherwise specified in this permit, all record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance.

C.20 General Reporting Requirements [326 IAC 2-7-5(3)(C)] [326 IAC 2-1.1-11] [326 IAC 2-2] [326 IAC 2-3]

(a) The Permittee shall submit the attached Quarterly Deviation and Compliance Monitoring Report or its equivalent. Any deviation from permit requirements, the date(s) of each deviation, the cause of the deviation, and the response steps taken must be reported. This report shall be submitted within thirty (30) days of the end of the reporting period. The Quarterly Deviation and Compliance Monitoring Report shall include the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

(b) The report required in (a) of this condition and reports required by conditions in Section D of this permit shall be submitted to:

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Quality
100 North Senate Avenue
MC61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

(c) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, on or before the date it is due.

(d) Unless otherwise specified in this permit, all reports required in Section D of this permit shall be submitted within thirty (30) days of the end of the reporting period. All reports do require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

Stratospheric Ozone Protection

C.21 Compliance with 40 CFR 82 and 326 IAC 22-1

Pursuant to 40 CFR 82 (Protection of Stratospheric Ozone), Subpart F, except as provided for motor vehicle air conditioners in Subpart B, the Permittee shall comply with the standards for recycling and emissions reduction:

(a) Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to 40 CFR 82.156.

(b) Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158.

(c) Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161.

SECTION D.1 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]:

(a) One (1) paint spray line, identified as EU-01, consisting of the following equipment:

(1) One (1) primer spray booth, identified as EU-01A, constructed in 1986, with a maximum capacity of 3 engines per hour, equipped with dry filters for overspray control, exhausting to stacks S1 and S2.

(2) One (1) top coat spray booth, identified as EU-01B, constructed in 1995, with a maximum capacity of 3 engines per hour, equipped with dry filters for overspray control, exhausting to stacks S3 and S4.

(3) One (1) touch-up spray booth, identified as EU-01C, constructed in 1986, with a maximum capacity of 3 engines per hour, equipped with dry filters for overspray control, exhausting to stacks S5 and S6.

(4) One (1) offline spray booth, identified as EU-01D, constructed in 1986, with a maximum capacity of 3 engines per hour, equipped with dry filters for overspray control, exhausting to stack S7.

(5) One (1) small parts spray booth, identified as EU-01F, constructed in 1986, with a maximum capacity of 3 engines per hour, equipped with dry filters for overspray control, exhausting to stack S8.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

Emission Limitations and Standards [326 IAC 2-7-5(1)]

D.1.1 Particulate Emission Limitations for Manufacturing Processes [326 IAC 6-3]

Pursuant to 326 IAC 6-3-2 (Particulate emission limitations, work practices, and control technologies), part (d), the particulate from EU-01A, EU-01B, EU-01C, EU-01D and EU-01F shall be controlled by a dry filter, and the Permittee shall operate the control device in accordance with the manufacturer's specifications.

D.1.2 Volatile Organic Compounds (VOC) [326 IAC 8-2-9]

Pursuant to 326 IAC 8-2-9 (Miscellaneous Metal Coating Operations), the Permittee shall not cause, allow, or permit the discharge into the atmosphere of any volatile organic compounds in excess of three and five-tenths (3.5) pounds of VOC per gallon of coating excluding water for extreme performance coatings, delivered to spray applicators in EU-01A, EU-01B, EU-01C, EU-01D and EU-01F, computed on a volume weighted average basis. When using coatings that are above 3.5 pounds per gallon limit.

D.1.3 Volatile Organic Compound (VOC) Limitations, Clean-up Requirements [326 IAC 8-2-9]

Pursuant to 326 IAC 8-2-9(f), work practices shall be used to minimize VOC emissions from mixing operations, storage tanks, and other containers, and handling operations for coatings, thinners, cleaning materials, and waste materials. Work practices shall include, but not be limited to, the following:

(1) Store all VOC containing coatings, thinners, coating related waste, and cleaning materials in closed containers.
(2) Ensure that mixing and storage containers used for VOC containing coatings, thinners, coating related waste, and cleaning materials are kept closed at all times except when depositing or removing these materials.
(3) Minimize spills of VOC containing coatings, thinners, coating related waste, and cleaning materials.
(4) Convey VOC containing coatings, thinners, coating related waste, and cleaning materials from one (1) location to another in closed containers or pipes.
(5) Minimize VOC emissions from the cleaning of application, storage, mixing, and conveying equipment by ensuring that equipment cleaning is performed without atomizing the cleaning solvent and all spent solvent is captured in closed containers.

D.1.4 Hazardous Air Pollutants (HAPs)

(a) The amount of single HAP delivered to the coating applicators (EU-01A through D and F) from coatings, and dilution and cleaning solvents used in the paint spray line identified as EU-01 and the amount of HAP from twenty five (25) engine test cells, identified as 801-808, HHP1-HHP10, 8(PI),

9(PI), 10(PI), EU-02C, and Production lines 1-3 (listed in Section D.2) shall be limited to less than nine (9) tons per twelve (12) consecutive month period for any single HAP with compliance determined at the end of each month period.

(b) The amount of total HAP delivered to the coating applicators (EU-01A through D and F) from coatings, and dilution and cleaning solvents used in the paint spray line identified as EU-01 and the amount of HAP from twenty five (25) engine test cells, identified as 801-808, HHP1-HHP10, 8(PI), 9(PI), 10(PI), EU-02C, and Production lines 1-3 (listed in Section D.2) less than twenty-four (24) tons per twelve (12) consecutive month period for total HAP with compliance determined at the end of each month period.

Compliance with these limits and the potential HAP emissions from the other emission units at this source, will limit the source-wide emissions of HAPs to less than ten (10) tons of a single HAP and less than twenty-five (25) tons of a combination of HAPs per twelve (12) consecutive month period and render the requirements of 326 IAC 2-4.1, not applicable to this source and make the source an area source of HAPs.

D.1.5 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan is required for EU-01A, EU-01B, EU-01C, EU-01D and EU-01F and any control devices. Section B – Preventive Maintenance Plan contains the Permittee's obligation with regard to preventive maintenance plans.

Compliance Determination Requirements

D.1.6 Volatile Organic Compounds (VOC) [326 IAC 8-1-2]

Compliance with the VOC content limit in condition D.1.2 shall be determined pursuant to 326 IAC 8-1-2(a)(7), using a volume weighted average of coatings on a daily basis. When using coatings that are above 3.5 pounds per gallon limit. This volume weighted average shall be determined by the following equation:

$$A = [\Sigma\ (C \times U) / \Sigma U]$$

Where: A is the volume weighted average in pounds VOC per gallon less water as applied;
C is the VOC content of the coating in pounds VOC per gallon less water as applied;
U is the usage rate of the coating in gallons per day.

D.1.7 Volatile Organic Compounds (VOC) [326 IAC 8-1-2] [326 IAC 8-1-4]

Compliance with the VOC content contained in condition D.1.1 shall be determined pursuant to 326 IAC 8-1-4(a)(3) and 326 IAC 8-1-2(a) by preparing or obtaining from the manufacturer the copies of the "as supplied" and "as applied" VOC data sheets. IDEM, OAQ (and local agency if applicable) reserves the authority to determine compliance using Method 24 in conjunction with the analytical procedures specified in 326 IAC 8-1-4.

Compliance Monitoring Requirements [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

D.1.8 Particulate Control

The dry filters for particulate control shall be in operation and controlling particulate, at all times when spray booths EU-01A, EU-01B, EU-01C, EU-01D and EU-01F are in operation.

D.1.9 Monitoring

(a) Daily inspections shall be performed to verify the placement, integrity and particle loading of the filters. To monitor the performance of the dry filters, weekly observations shall be made of the overspray from the surface coating stacks (S1, S2, S3, S4, S5, S6, S7 and S8) while one (1) or more of the booths are in operation. If a condition exists which should result in a response step, the Permittee shall take reasonable response steps. Failure to take response steps shall be considered a deviation of this permit. Section C – Response to Excursions and Exceedances contains the Permittee's obligation with regard to response to excursions and exceedances.

(b) Monthly inspections shall be performed of the coating emissions from the stacks and the presence of overspray on the rooftops and the nearby ground. When there is a noticeable change in overspray emissions, or evidence of overspray emissions, the Permittee shall take reasonable response steps. Failure to take response steps shall be considered a deviation of this permit. Section C – Response to Excursions and Exceedances contains the Permittee's obligation with regard to response to excursions

and exceedances.

(c) Additional inspections and preventive measures shall be performed as prescribed in the Preventive Maintenance Plan.

Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

D.1.10 Record Keeping Requirements

(a) To document the compliance status with condition D.1.2, the Permittee shall maintain records in accordance with (1) through (5) below. Records maintained for (1) through (5) shall be taken daily and shall be complete and sufficient to establish compliance with the VOC usage limit established in condition D.1.2.

(1) The VOC content of each coating material and solvent used less water.

(2) The amount of coating material and solvent used on a daily basis.

(A) Records shall include purchase orders, invoices, and material safety data sheets (MSDS) necessary to verify the type and amount used.

(B) Solvent usage records shall differentiate between those added to coatings (dilution) and those used as cleanup solvent.

(3) The volume weighted average VOC content of the coatings used for each day.

(4) The daily cleanup solvent usage; and

(5) The total VOC usage for each day.

(b) To document the compliance status with condition D.1.4, the Permittee shall maintain records in accordance with (1) through (3) below. Records maintained for (1) through (3) shall be taken monthly and shall be complete and sufficient to establish compliance with the HAP emission limits established in condition D.1.4.

(1) The amount and HAP content of each coating material and solvent used. Records shall include purchase orders, invoices, and material safety data sheets (MSDS) necessary to verify the type and amount used. Solvent usage records shall differentiate between those added to coatings and those used as cleanup solvents;

(2) The total coating usage for each month; and

(3) The cleanup or dilution solvent usage for each month.

(c) To document the compliance status with conditions D.1.5 and D.1.9, the Permittee shall maintain a log of weekly overspray observations, daily and monthly inspections, and those additional inspections prescribed by the Preventive Maintenance Plan.

(d) All records shall be maintained. Section C – General Record Keeping Requirements contains the Permittee's obligation with regard to record keeping.

D.1.11 Reporting Requirements

A quarterly summary of the information to document the compliance status with conditions D.1.2 and D.1.4 shall be submitted using the reporting forms located at the end of this permit, or their equivalent, not later than thirty (30) days following the end of each calendar quarter. The report submitted by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34). Section C - General Reporting Requirements contains the Permittee's obligations with regard to the reporting required by this condition.

SECTION D.2 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

(b) Six (6) production engine test cells, identified as EU-02A, constructed in 1978, consisting of the following equipment:

(1) Three (3) diesel-powered production engine test cells, identified as 801, 802, and 803, with maximum outputs of 1000, 1000 and 1650 hp respectively, with heat inputs of 6.41, 6.41 and 10.57 MMBtu/hr, respectively and exhausting to stacks 801.1 - 801.2, 802.1 - 802.2, and 803.1 and 803.2, respectively;

(2) Two (2) diesel-powered production engine test cells, identified as 804 and 805, with maximum outputs of 1650 hp, each, with heat input of 10.57 MMBtu/hr each and exhausting to stacks 804 and 805, respectively; and

(3) One (1) diesel-powered or natural gas-fired production engine test cell, identified as 808, with maximum output of 1650 hp when combusting diesel fuel or 600hp when combusting natural gas, with heat input of 10.57 MMBtu/hr when combusting diesel fuel or 4.1 MMBtu/hr when combusting natural gas and exhausting to stack 808.

(c) Ten (10) engineering engine test cells, identified as EU-02B, installed in 1978, consisting of the following equipment:

(1) Two (2) diesel or biodiesel-powered engineering engine test cells, identified as 806 and 807, may be alternatively powered by liquid propane or natural gas with maximum outputs of 1800 hp, each, when combusting diesel or biodiesel, or 1800hp, each, when combusting liquid propane or natural gas and exhausting to stacks 806 and 807, respectively;

(2) One (1) diesel or biodiesel-powered engineering engine test cell~~s~~, identified as HHP1, may be alternatively powered by liquid propane or natural gas, with maximum output of 4500 hp, when combusting diesel or biodiesel or 2200 hp when combusting liquid propane or natural gas, with heat input of 28.82 MMBtu/hr when combusting diesel or biodiesel or 14.40 MMBtu/hr when combusting liquid propane and natural gas and exhausting to stack HHP1;

(3) One (1) diesel or biodiesel-powered engineering engine test cells, identified as HHP2, with maximum output of 4500 hp when combusting diesel or biodiesel, with heat input of 28.82 MMBtu/hr and exhausting to stack HHP2;

(4) One (1) diesel or biodiesel-powered engineering engine test cell, identified as HHP3, may be alternatively powered by liquid propane or natural gas, with maximum output of 4500 hp when combusting diesel or biodiesel and 4500hp when combusting liquid propane or natural gas, with heat input of 28.82 MMBtu/hr when combusting diesel/biodiesel or liquid propane/natural gas and exhausting to stacks HHP3.1 and HHP3.2;

(5) One (1) diesel or biodiesel-powered engineering test cell, identified as HHP5, may be alternatively powered by liquid propane or natural gas, with output of 2200 hp when combusting diesel or biodiesel or 600 hp when combusting liquid propane or natural gas, with heat input of 14.09 MMBtu/hr when combusting diesel or biodiesel or 4.10 when combusting liquid propane or natural gas and exhausting to stack HHP5.1 - HHP5.2;

(6) One (1) diesel or biodiesel-powered engine test pad 8 (PI), identified as PI, may be alternatively powered by liquid propane or natural gas, with maximum outputs of 3000 hp when combusting diesel or biodiesel or 2200 hp when combusting liquid propane or natural gas, with heat input of 19.22 MMBtu/hr when combusting diesel or biodiesel and 14.40 MMBtu/hr when combusting liquid propane or natural gas and exhausting to stacks PD8.1 and PD8.2;

(7) Two (2) diesel or biodiesel-powered engine test pad 10(PI) and 11(PI), identified as PI, may be alternatively powered by liquid propane or natural gas, with maximum outputs of 1850, each, when combusting diesel, or biodiesel, or 1850 hp, each when combusting liquid propane or natural gas, with heat input of 11.85 MMBtu/hr, each, when combusting diesel, or biodiesel or 12.70 MMBtu/hr, each when combusting liquid propane or natural gas and exhausting to stacks PD10.1 and PD11.1; and

(8) One (1) diesel or biodiesel-powered engineering engine test cell, identified as HHP4, may be alternatively powered by liquid propane or natural gas, with a maximum output of 2200 hp when combusting diesel or biodiesel and 2200hp when combusting liquid propane or natural gas and a heat input of 14.09 MMBtu per hour when combusting diesel or biodiesel or 14.40 MMBtu/hr when combusting liquid propane or natural gas and exhausting to stacks HHP4.1 and HHP4.2.

(d) One (1) diesel or biodiesel-powered engineering engine test cell Test Pad 9, identified as EU-02C, installed in 2005, may be alternatively powered by liquid propane or natural gas, with maximum outputs of 4500 hp when combusting diesel or biodiese or 2200 hp when combusting liquid propane or natural gas, exhausting to stacks PD9.1 and PD9.2.

(e) One (1) engineering engine test cell, identified as HHP6, approved for construction in 2011, may be powered by diesel, biodiesel JP8/JetA, propane natural gas blend or natural gas, with maximum output of 7032 hp and exhausting to stack HHP6.1.

(f) One (1) engineering engine test cell, identified as HHP8, approved for construction in 2011, may be powered by diesel, biodiesel, JP8/JetA, propane natural gas blend or natural gas, with maximum output of 7032 hp and exhausting to stack HHP8.1;

(g) One (1) engineering engine test cell, identified as HHP9, approved for construction in 2011, may be powered by diesel, biodiesel, JP8/JetA, propane natural gas blend or natural gas, with maximum output of 7032 hp and exhausting to stack HHP9.1;

(h) One (1) production engine test cell, identified as Production 1, approved for construction in 2011, may be powered by diesel, biodiesel with maximum output of 7032 hp and exhausting to stack Production 1.1.

(i) One (1) production engine test cell, identified as Production 2, approved for construction in 2011, may be powered by diesel, biodiesel with maximum output of 7032 hp and exhausting to stack Production 2.1.

(j) One (1) production engine test cell, identified as Production 3, approved for construction in 2011, may be powered by diesel, biodiesel with maximum output of 7032 hp and exhausting to stack Production 3.1.

(k) One (1) engineering engine test cell, identified as HHP7, approved for construction in 2011, may be powered by natural gas, biodiesel, JP8/JetA, propane natural gas blend or diesel fuel, with maximum output of 5685 hp and exhausting to stack HHP7.1.

(l) One (1) engineering engine test cell, identified as HHP10, approved for construction in 2011, may be powered by natural gas, biodiesel, JP8/JetA, propane natural gas blend or diesel fuel, with maximum output of 5685 hp, and exhausting to stack HHP10.1.

(The information describing the process contained in this emissions unit description box is descriptive information and does not constitute enforceable conditions.)

Emission Limitations and Standards [326 IAC 2-7-5(1)]

D.2.1 PSD Minor Limit [326 IAC 2-2]

(a) The total NOx emissions from the seventeen (17) engine test cells, known as EU-02A, EU-02B, and EU-02C shall not exceed 217.9 tons per twelve (12) consecutive month period with compliance determined at the end of each month.

The NOx emissions shall be calculated by the following equation:

NOx emissions = (Diesel fuel burned by 801, 802, 803, 804, 805 and 808) x (Ef1 of NOx/gal of diesel fuel) + (Diesel fuel burned by 806, 807, HHP1, HHP2, HHP3, HHP5, 8(PI), 10(PI), 11(PI), HHP4 and EU-02C) x (Ef2, of NOx/gal of diesel fuel)
+

(Natural gas burned by 806, 807, 808, HHP1, HHP3 HHP4, HHP5 and PI) x (Ef3 of NOx/ft^3 of natural gas)
+

(Biodiesel fuel burned by 806, 807, HHP1, HHP2, HHP3, HHP5, 8(PI) (PI), 11(PI), HHP4 and EU-02C) x (Ef4 of NOx/gal of biodiesel fuel)
+

(Propane fuel burned by 806, 807, HHP1, HHP3, HHP5, 8(PI) 10(PI), 11(PI), HHP4 and EU-02C) x (Ef5 of NOx/gal of Propane fuel)

(b) The NOx emissions shall not exceed:

(1) Ef1 = Emission Limit in pounds of NOx per gallon of diesel fuel for 801, 802, 803, 804, 805 and 808;

(2) Ef2 = Emission Limit in pounds of NOx per gallon of diesel fuel for 806, 807, HHP1, HHP2, HHP3, HHP5, 8(PI), 10(PI), 11(PI), HHP4 and EU-02C;

(3) Ef3 = Emission Limits in pounds of NOx per cubic foot of natural gas for 806, 807, 808, HHP1, HHP3 HHP4, HHP5 and PI;

(4) Ef4 = Emission Limit in pounds of NOx per gallon of biodiesel fuel for 806, 807, HHP1, HHP2, HHP3, HHP5, 8(PI), 10(PI), 11(PI), HHP4 and EU-02C; and

(5) Ef5 = Emission Limit in pounds of NOx per kilogallon of propane for 806, 807, HHP1, HHP3, HHP5, 8(PI), 10(PI), 11(PI), HHP4 and EU-02C.

Compliance with these limits shall limit the NOx emissions from the engine test cells and other emission units to less than two hundred and fifty (250) tons per year and render the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration) not applicable to this modification.

(c) The total VOC emissions from the eleven (11) engine test cells, known as EU-02B, and EU-02C shall not exceed the 163.56 tons per twelve (12) consecutive month period with compliance determined at the end of each month.

The VOC emissions shall be calculated by the following equation:

VOC emissions = (Diesel fuel burned by 801, 802, 803, 804, 805 and 808) x (Ef1 of VOC/gal of diesel fuel) + (Diesel fuel burned by 806, 807, HHP1, HHP2, HHP3, HHP5, 8(PI), 10(PI), 11(PI), HHP4 and EU-02C) x Ef2, of NOx/gal of diesel fuel)
+

(Biodiesel fuel burned by 806, 807, HHP1, HHP2, HHP3, HHP5, 8(PI) (PI), 11(PI), HHP4 and EU-02C) x (Ef4 of VOC/gal of biodiesel fuel)
+

(Natural gas burned by 806, 807, 808, HHP4, HHP5 and PI) x (Ef3 of VOC /ft^3 of natural gas) at a natural gas heat content of 1,020 MMBtu/ft^3
+

(Propane fuel burned by 806, 807, HHP1, HHP3, HHP5, 8(PI) 10(PI), 11(PI), HHP4 and EU-02C) x (Ef5 of VOC/gal of Propane fuel)

(d) The VOC emissions shall not exceed:

(1) Ef1 = Emission Limit in pounds of VOC per gallon of diesel fuel for 801, 802, 803, 804, 805 and 808;

(2) Ef2 = Emission Limit in pounds of VOC per gallon of diesel fuel for 806, 807, HHP1, HHP2, HHP3, HHP5, 8(PI), 10(PI), 11(PI), HHP4 and EU-02C;

(3) Ef3 = Emission Limits in pounds of VOC per cubic foot of natural gas for 806, 807, 808, HHP1, HHP3 HHP4, HHP5 and PI;

(4) Ef4 = Emission Limit in pounds of VOC per gallon of biodiesel fuel for 806, 807, HHP1, HHP2, HHP3, HHP5, 8(PI), 10(PI), 11(PI), HHP4 and EU-02C; and

(5) Ef5 = Emission Limit in pounds of VOC per kilogallon of propane for 806, 807, HHP1, HHP3, HHP5, 8(PI), 10(PI), 11(PI), HHP4 and EU-02C.

Compliance with these limits shall limit the VOC emissions from the Engine test cells and other emission units to less than two hundred and fifty (250) tons per year and render the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration) not applicable to this modification.

(e) The total CO emissions from the eleven (11) engine test cells, known as EU-02B, and EU-02C shall not exceed 183.62 tons per twelve (12) consecutive month period with compliance determined at the end of each month.

The CO emissions shall be calculated by the following equation:

CO emissions = (Diesel fuel burned by 801, 802, 803, 804, 805 and 808) x (Ef1 of CO/gal of diesel fuel) + (Diesel fuel burned by 806, 807, HHP1, HHP2, HHP3, HHP5, 8(PI), 10(PI), 11(PI), HHP4 and EU-02C) x Ef2, of NOx/gal of diesel fuel)
+

(Biodiesel fuel burned by 806, 807, HHP1, HHP2, HHP3, HHP5, 8(PI) (PI), 11(PI), HHP4 and EU-02C) x (Ef4 of CO/gal of biodiesel fuel)
+

(Natural gas burned by 806, 807, 808, HHP4, HHP5 and PI) x (Ef3 of CO/ft^3 of natural gas)
+

(Propane fuel burned by 806, 807, HHP1, HHP3, HHP5, 8(PI) 10(PI), 11(PI), HHP4 and EU-02C) x (Ef5 of CO/gal of Propane fuel)

(f) The CO emissions shall not exceed:

(1) Ef1 = Emission Limit in pounds of CO per gallon of diesel fuel for 801, 802, 803, 804, 805 and 808;

(2) Ef2 = Emission Limit in pounds of CO per gallon of diesel fuel for 806, 807, HHP1, HHP2, HHP3, HHP5, 8(PI), 10(PI), 11(PI), HHP4 and EU-02C;

(3) Ef3 = Emission Limits in pounds of CO per cubic foot of natural gas for 806, 807, 808, HHP1, HHP3 HHP4, HHP5 and PI;

(4) Ef4 = Emission Limit in pounds of CO per gallon of biodiesel fuel for 806, 807, HHP1, HHP2, HHP3, HHP5, 8(PI), 10(PI), 11(PI), HHP4 and EU-02C; and

(5) Ef5 = Emission Limit in pounds of CO per kilogallon of propane for 806, 807, HHP1, HHP3, HHP5, 8(PI), 10(PI), 11(PI), HHP4 and EU-02C.

Compliance with these limits shall limit the CO emissions from the engine test cells and other emission units to less than two hundred and fifty (250) tons per year and render the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration) not applicable to this modification.

NEW EMISSION LIMITS FOR THE NEW UNITS

The total NOx emissions from HHP6 – HHP10 and Production 1 -3 shall not exceed 218 tons per twelve (12) consecutive month period with compliance determined at the end of each month.

(g) The NOx emissions shall be calculated by the following equation:

NOx emissions = (Diesel fuel burned by HHP6 – HHP10 x (Ef1n of NOx/gal of diesel fuel) + (Diesel fuel burned by Production 1 - 3) x (Ef2n, of NOx/gal of diesel fuel)

+

(Natural gas burned by HHP6 – HHP10 x (Ef3n of NOx/ft^3 of natural gas)

+

(Biodiesel fuel burned by HHP6 – HHP10) x (Ef4n of NOx/gal of biodiesel fuel) +(Biodiesel fuel burned by Production 1 – 3) x Ef6n of NOx/gal of biodiesel fuel)

+

(Propane fuel burned by HHP6 – HHP10) x (Ef5n of NOx/gal of Propane fuel)

+

(JP8 and Jet A fuel burned by HHP6, HHP7, HHP8, HHP9, HHP10, x (Ef7n of NOx/gal of J8 or Jet A)

Where:

(1) Ef1n = Emission Factor in pounds of NOx per gallon of diesel fuel for HHP6 – HHP10

(2) Ef2n = Emission Factor in pounds of NOx per gallon of diesel fuel for Production 1 – 3

(3) Ef3n = Emission Factor in pounds of NOx per cubic foot of natural gas for HHP6 – HHP10

(4) Ef4n = Emission Factor in pounds of NOx per gallon of biodiesel fuel for HHP6 – HHP10

(5) Ef5n = Emission Factor in pounds of NOx per kilogallon of propane for HHP6 – HHP10

(6) Ef6n = Emission Factor in pounds of NOX per gallon of biodiesel fuel for Production 1 -3.

(7) Ef7n = Emission Factor in pounds for NOx per gallon of J8 or Jet A for HHP6,HHP7, HHP8, HHP9, HHP10.

(h) The total PM emissions from HHP6 – HHP10 and Production 1 -3 shall not exceed 248 tons per twelve (12) consecutive month period with compliance determined at the end of each month.

The PM emissions shall be calculated by the following equation:

PM emissions = (Diesel fuel burned by HHP6 – HHP10 x (Ef1n of PM/gal of diesel fuel) + (Diesel fuel burned by Production 1 - 3) x (Ef2n, of PM/gal of diesel fuel)

+

(Natural gas burned by HHP6 – HHP10 x (Ef3n of PM/ft^3 of natural gas)

+

(Biodiesel fuel burned by HHP6 – HHP10) x (Ef4n of PM/gal of biodiesel fuel) +(Biodiesel fuel burned by Production 1 – 3) x Ef6n of PM/gal of biodiesel fuel)

+

(Propane fuel burned by HHP6 – HHP10) x (Ef5n of PM/gal of Propane fuel)

+

(JP8 and Jet A fuel burned by HHP6, HHP7, HHP8, HHP9, HHP10, x (Ef7n of PM/gal of J8 or Jet A)

Where:

(1) Ef1n = Emission Factor in pounds of PM per gallon of diesel fuel for HHP6 – HHP10

(2) Ef2n = Emission Factor in pounds of PM per gallon of diesel fuel for Production 1 – 3

(3) Ef3n = Emission Factor in pounds of PM per cubic foot of natural gas for HHP6 – HHP10

(4) Ef4n = Emission Factor in pounds of PM per gallon of biodiesel fuel for HHP6 – HHP10

(5) Ef5n = Emission Factor in pounds of PM per kilogallon of propane for HHP6 – HHP10

(6) Ef6n = Emission Factor in pounds of PM per gallon of biodiesel fuel for Production 1 -3.

(7) Ef7n = Emission Factor in pounds for PM per gallon of J8 or Jet A for HHP6,HHP7, HHP8, HHP9, HHP10.

(i) The total CO emissions from HHP6 – HHP10 and Production 1 -3 shall not exceed 230 tons per twelve (12) consecutive month period with compliance determined at the end of each month.

The CO emissions shall be calculated by the following equation:

CO emissions = (Diesel fuel burned by HHP6 – HHP10 x (Ef1n of CO/gal of diesel fuel) + (Diesel fuel burned by Production 1 - 3) x (Ef2n, of CO/gal of diesel fuel)

+

(Natural gas burned by HHP6 – HHP10 x (Ef3n of CO/ft^3 of natural gas)

+

(Biodiesel fuel burned by HHP6 – HHP10) x (Ef4n of CO/gal of biodiesel fuel) +(Biodiesel fuel burned by Production 1 – 3) x Ef6n of CO/gal of biodiesel fuel)

+

(Propane fuel burned by HHP6 – HHP10) x (Ef5n of CO/gal of Propane fuel)

+

(JP8 and Jet A fuel burned by HHP6, HHP7, HHP8, HHP9, HHP10, x (Ef7n of CO/gal of J8 or Jet A)

Where:

(1) Ef1n = Emission Factor in pounds of CO per gallon of diesel fuel for HHP6 – HHP10

(2) Ef2n = Emission Factor in pounds of CO per gallon of diesel fuel for Production 1 – 3

(3) Ef3n = Emission Factor in pounds of CO per cubic foot of natural gas for HHP6 – HHP10

(4) Ef4n = Emission Factor in pounds of CO per gallon of biodiesel fuel for HHP6 – HHP10

(5) Ef5n = Emission Factor in pounds of CO per kilogallon of propane for HHP6 – HHP10

(6) Ef6n = Emission Factor in pounds of CO per gallon of biodiesel fuel for Production 1 -3.

(7) Ef7n = Emission Factor in pounds for CO per gallon of J8 or Jet A for HHP6,HHP7, HHP8, HHP9, HHP10.

Compliance with these limits in combination with the potential to emit of PM, PM10, NOx, CO and VOC from all other units from this modification shall limit the emissions of PM, PM10, NOx, CO and VOC emissions from this modification to less than two hundred and fifty (250) tons per year, each and render the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration) not applicable to the 2011 modification. After this modification the limited PTE from PM, PM10, SO2, NOx, CO and VOC for the entire source will be greater than 250 tons per year. Therefore, due to the addition of new production lines and test cells, the entire source will become major source under PSD after this Modification.

D.2.2 HAPs Minor Limits [326 IAC 2-4.1]

The Permittee shall comply with the following:

(a) The single HAP from the paint spray line booth, identified as EU-01, twenty five (25) engine test cells, identified as 801-808, HHP1-HHP10, 8(PI), 9(PI), 10(PI), EU-02C, and Production lines 1-3, shall be less than 9.0 tons per twleve (12) consecutive month period with compliance determined at the end of each month.

(b) The total HAP from the paint spray line booth, identified as EU-01, twenty five (25) engine test cells, identified as 801-808, HHP1-HHP10, 8(PI), 9(PI), 10(PI), EU-02C, and Production lines 1-3 shall be to less than 24.0 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

The single and total HAP emissions shall be calculated by the following equation:

HAP emissions = The amount of HAP delivered to the coating applicators (EU-01A through D and F) from coatings, and dilution and cleaning solvents used in the paint spray line identified as EU-01

+

(Diesel fuel burned by 801, 802, 803, 804, 805 and 808) x (Ef1 of HAP/gal of diesel fuel) + (Diesel fuel burned by 806, 807, HHP1, HHP2, HHP3, HHP5, 8(PI), 10(PI), 11(PI), HHP4 and EU-02C) x Ef2, of HAP/gal of diesel fuel) + ((Diesel fuel burned by HHP6 – HHP10 x (Ef1n of PM/gal of diesel fuel) + (Diesel fuel burned by Production 1 - 3) x (Ef2n, of PM/gal of diesel fuel)

+

(Biodiesel fuel burned by 806, 807, HHP1, HHP2, HHP3, HHP5, 8(PI) (PI), 11(PI), HHP4 and EU-02C) x (Ef4 of HAP/gal of biodiesel fuel) + ((Biodiesel fuel burned by HHP6 – HHP10) x (Ef4n of PM/gal of biodiesel fuel) +(Biodiesel fuel burned by Production 1 – 3) x Ef6n of PM/gal of biodiesel fuel)

+

(Natural gas burned by 806, 807, 808, HHP1, HHP3 HHP4, HHP5 and PI) x (Ef3 of HAP/ft^3 of natural gas)+ (Natural gas burned by HHP6 – HHP10 x (Ef3n of PM/ft^3 of natural gas)

+

(Propane natural gas blend fuel burned by 806, 807, HHP1, HHP3, HHP5, 8(PI) 10(PI), 11(PI), HHP4 and EU-02C) x (Ef5 of HAP/gal of Propane fuel) + (Propane fuel burned by HHP6 – HHP10) x (Ef5n of PM/gal of Propane fuel)

+

(JP8 and Jet A fuel burned by HHP6, HHP7, HHP8, HHP9, HHP10, x (Ef7n of PM/gal of J8 or Jet A)

Where:

(1) Ef1 = Emission Factor in pounds of HAP per gallon of diesel fuel for 801, 802, 803, 804, 805 and 808;

(2) Ef2 = Emission Factor in pounds of HAP per gallon of diesel fuel for 806, 807, HHP1, HHP2, HHP3, HHP5, 8(PI), 10(PI), 11(PI), HHP4 and EU-02C;

(3) Ef3 = Emission Factor in pounds of HAP per cubic foot of natural gas for 806, 807, 808, HHP1,HHP3 HHP4, HHP5 and PI;

(4) Ef4 = Emission Factor in pounds of HAP per gallon of biodiesel fuel for 806, 807, HHP1, HHP2, HHP3, HHP5, 8(PI), 10(PI), 11(PI), HHP4 and EU-02C; and

(5) Ef5 = Emission Factor in pounds of HAP per kilogallon of propane for 806, 807, HHP1, HHP3, HHP5, 8(PI), 10(PI), 11(PI), HHP4 and EU-02C.

(6) Ef1n = Emission Factor in pounds of HAP per gallon of diesel fuel for HHP6 – HHP10

(7) Ef2n = Emission Factor in pounds of HAP per gallon of diesel fuel for Production 1 – 3

(8) Ef3n = Emission Factor in pounds of HAP per cubic foot of natural gas for HHP6 – HHP10

(9) Ef4n = Emission Factor in pounds of HAP per gallon of biodiesel fuel for HHP6 – HHP10

(10) Ef5n = Emission Factor in pounds of HAP per kilogallon of propane for HHP6 – HHP10

(11) Ef6n = Emission Factor in pounds of HAP per gallon of biodiesel fuel for Production 1 -3.

(12) Ef7n = Emission Factor in pounds for HAP per gallon of J8 or Jet A for HHP6,HHP7, HHP8, HHP9, HHP10.

Compliance with these limits and the potential HAP emissions from the other emission units at this source, will limit the source-wide emissions of HAPs to less than ten (10) tons of a single HAP and less than twenty-five (25) tons of a combination of HAPs per twelve (12) consecutive month period and render the requirements of 326 IAC 2-4.1, not applicable to this source and make the source an area source of HAPs.

D.2.3 VOC Limitations [326 IAC 8-1-6]

Pursuant to 326 IAC 8-1-6, the VOC emissions from the five test cells and the three production lines shall be limited to less than 25 tons, each per twelve (12) consecutive month period with compliance determined at the end of each month.

VOC emissions = (Diesel fuel burned by HHP6 – HHP10 x (Ef1n of VOC/gal of diesel fuel) + (Diesel fuel burned by Production 1 - 3) x (Ef2n, of VOC/gal of diesel fuel)+

+

(Natural gas burned by HHP6 – HHP10 x (Ef3n of VOC/ft^3 of natural gas)+

+

(Biodiesel fuel burned by HHP6 – HHP10) x (Ef4n of VOC/gal of biodiesel fuel) +(Biodiesel fuel burned by Production 1 – 3) x Ef6n of VOC/gal of biodiesel fuel)

+

(Propane fuel burned by HHP6 – HHP10) x (Ef5n of VOC/gal of Propane fuel)

+

(JP8 and Jet A fuel burned by HHP6, HHP7, HHP8, HHP9, HHP10, x (Ef7n of

VOC/gal of J8 or Jet A)

Where:

(1) Ef1n = Emission Factor in pounds of VOC per gallon of diesel fuel for HHP6 – HHP10

(2) Ef2n = Emission Factor in pounds of VOC per gallon of diesel fuel for Production 1 – 3

(3) Ef3n = Emission Factor in pounds of VOC per cubic foot of natural gas for HHP6 – HHP10

(4) Ef4n = Emission Factor in pounds of VOC per gallon of biodiesel fuel for HHP6 – HHP10

(5) Ef5n = Emission Factor in pounds of VOC per kilogallon of propane for HHP6 – HHP10

(6) Ef6n = Emission Factor in pounds of VOC per gallon of biodiesel fuel for Production 1 -3.

(7) Ef7n = Emission Factor in pounds for VOC per gallon of J8 or Jet A for HHP6,HHP7, HHP8, HHP9, HHP10.

Compliance with these limits, will limit the VOC emissions from each of the test cells and each of the production lines to less than 25 tons per year and render 326 IAC 8-1-6 (New Facilities, General Reduction requirements) not applicable to the five test cells and the three production lines.

D.2.4 Sulfur Dioxide (SO_2) [326 IAC 7-1.1-1]

Pursuant to 326 IAC 7-1.1 (SO_2 Emissions Limitations), the SO_2 emissions from the test cells and production lines shall not exceed five tenths (0.5) pounds per million Btu heat input, each. Compliance shall be demonstrated on a calendar month average.

D.2.5 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan is required for EU-02A, EU-02B, and EU-02C and their control devices. Section B – Preventive Maintenance Plan contains the Permittee's obligation with regard to preventive maintenance plans.

Compliance Monitoring Requirements [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

D.2.6 Visible Emissions Notations

(a) Visible emissions notations of the engine test cell stack exhausts (801.1 -801.2, 802.1 -802.2, 803.1-803.2, 804 through 808, HHP1, HHP2, HHP3.1 -HHP3.2, HHP4.1-HHP4.2, HHP5.1-HHP5.2, PD8.1-PD8.2, PD9.1 and PD9.2, PD10.1, PD11.1, HHP6.1 through HHP10.1, and Production 1.1 through Production 3.1) shall be performed once per day during normal daylight operations when combusting diesel fuel or biodiesel. A trained employee will record whether emissions are normal or abnormal.

(b) For processes operated continuously "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.

(c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.

(d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.

(e) If abnormal emissions are observed, the Permittee shall take reasonable response steps. Failure to take response steps shall be considered a deviation from this permit. Section C – Response to Excursions or Exceedances contains the Permittee's obligation with regard to response to excursions or exceedances.

Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

D.2.7 Record Keeping Requirements

(a) To document the compliance status with condition D.2.1 and D.2.2, the Permittee shall maintain records in accordance with (1) and (3) below:

(1) Calendar dates covered in the compliance determination period; and

(2) Actual diesel, biodiesel fuel oil, propane, natural gas, JetA, and J8 usage for EU-02A, EU-02B, EU-02C, HHP6 through HHP10, and Production1 through 3 since last compliance determination period and equivalent NOx emissions.

(b) To document the compliance status with condition D.2.6 - Visible Emission Notation, the Permittee shall maintain records of daily visible emission notations of the stack exhausts listed, when combusting diesel fuel or biodiesel. The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of visible emission notation, (e.g. the process did not operate that day).

(c) All records shall be maintained. Section C – General Record Keeping Requirements contains the Permittee's obligation with regard to record keeping.

D.2.8 Reporting Requirements

A quarterly summary of the information to document the compliance status with conditions D.2.1, D.2.2 and D.2.3 shall be submitted using the reporting forms located at the end of this permit, or their equivalent, not later than thirty (30) days following the end of each calendar quarter. The report submitted by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34). Section C - General Reporting Requirements contains the Permittee's obligations with regard to the reporting required by this condition.

SECTION D.3 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]:

(m) Twenty five (25) natural gas-fired boilers, identified as EU03C-EU03AA, approved for construction in 2011, with EU003C-EU03Z each having a maximum capacity of 2.0 MMBtu/hr and EU03AA having a maximum capacity of 2.52 MMBtu/hr, exhausting to stacks B3-28, respectively.

(n) Two (2) natural gas-fired boilers, identified as EU-03A and EU-03B, installed in 1978, exhausting to stacks B1 and B2, respectively, each rated at 20.9 MMBtu per hour.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

Emission Limitations and Standards [326 IAC 2-7-5(1)]

D.3.1 Particulate Matter (PM) Limitation [326 IAC 6-2-3]

Pursuant to 326 IAC 6-2-3(e), the PM emissions from boilers, EU-03A and EU-03B, shall each be limited to 0.6 pounds per million British thermal units heat input.

D.3.2 Particulate Emission Limitations for Sources of Indirect Heating Matter (PM) Limitation [326 IAC 6-2-4]

Pursuant to 326 IAC 6-2-4, the PM emissions from boilers, identifies as EU03C-EU03X, shall each be limited to 0.338 pounds per million British thermal units heat input.

D.3.3 Sulfur Dioxide (SO_2) [326 IAC 7-1.1-1] [326 IAC 7-2-1]

Pursuant to 326 IAC 7-1.1 (SO_2 Emissions Limitations) the SO_2 emissions from each boiler (EU-03A and EU-03B) shall not exceed five tenths (0.5) pounds per million British thermal units heat input while combusting fuel oil. Pursuant to 326 IAC 7-2-1, compliance shall be demonstrated on a thirty (30) day rolling weighted average. 326 IAC 7-1.1 and 326 IAC 7-2-1 are not federally enforceable.

D.3.4 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan is required for these facilities and their control devices. Section B – Preventive Maintenance Plan contains the Permittee's obligation with regard to preventive maintenance plans.

Compliance Determination Requirements

D.3.5 Sulfur Dioxide Emissions and Sulfur Content

Compliance shall be determined utilizing one of the following options for each boiler (EU-03A and EU-03B).

(a) Pursuant to 326 IAC 3-7-4, the Permittee shall demonstrate that the sulfur dioxide emissions do not exceed five-tenths (0.5) pounds per million British thermal units heat input by:

(1) Providing vendor analysis of fuel delivered, if accompanied by a vendor certification, or;

(2) Analyzing the oil sample to determine the sulfur content of the oil via the procedures in 40 CFR 60, Appendix A, Method 19.

(A) Oil samples may be collected from the fuel tank immediately after the fuel tank is filled and before any oil is combusted; and

(B) If a partially empty fuel tank is refilled, a new sample and analysis would be required upon filling.

(b) Compliance may also be determined by conducting a stack test for sulfur dioxide emissions from the boiler using 40 CFR 60, Appendix A, Method 6 in accordance with the procedures in 326 IAC 3-6.

A determination of noncompliance pursuant to any of the methods specified in (a) or (b) above shall not be refuted by evidence of compliance pursuant to the other method.

Record Keeping and Reporting Requirement [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

D.3.6 Record Keeping Requirements

(a) To document the compliance status with condition D.3.3, the Permittee shall maintain records in accordance with (1) through (6) below.

(1) Calendar dates covered in the compliance determination period;

(2) Actual fuel oil usage since last compliance determination period and equivalent sulfur dioxide emissions;

(3) A certification, signed by the owner or operator, that the records of the fuel supplier certifications represent all of the fuel combusted during the period, the natural gas fired boiler certification does not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34); and

If the fuel supplier certification is used to demonstrate compliance the following, as a minimum, shall be maintained:

(4) Fuel supplier certifications;

(5) The name of the fuel supplier; and

(6) A statement from the fuel supplier that certifies the sulfur content of the fuel oil.

The Permittee shall retain records of all recording/monitoring data and support information for a period of five (5) years, or longer if specified elsewhere in this permit, from the date of the monitoring sample, measurement, or report. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit.

(b) To document the compliance status with condition D.3.6, the Permittee shall maintain records of visible emission notations of the boiler stack exhausts once per shift.

(c) All records shall be maintained. Section C – General Record Keeping Requirements contains the Permittee's obligation with regard to record keeping.

D.3.7 Reporting Requirements

The Permittee shall certify, on the form provided, that natural gas was fired in each of the boilers at all times during each quarter on a semi-annual basis. Alternatively, the Permittee shall report the number of days during which an alternate fuel was burned during each quarter.

SECTION D.4 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]:

(a) Degreasing operations that do not exceed 145 gallons per 12 months, except if subject to 326 IAC 20-6. [326 IAC 8-3]

(b) The following equipment related to manufacturing activities not resulting in the emission of HAPs: brazing equipment, cutting torches, soldering equipment, welding equipment. [326 IAC 6-3]

(c) Grinding and machining operations controlled with fabric filters, scrubbers, mist collectors, wet collectors and electrostatic precipitators with a design grain loading of less than or equal to 0.03 grains per actual cubic foot and a gas flow rate less than or equal to 4,000 actual cubic feet per minute, including the following: deburring; buffing; polishing; abrasive blasting; pneumatic conveying; and woodworking operations. [326 IAC 6-3]

(d) One (1) 25,000 gallon No.2 diesel storage tank, constructed in 1998. [326 IAC 12] [40 CFR 60.116b, Subpart Kb]

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

Emission Limitations and Standards [326 IAC 2-7-5(1)]

D.4.1 Volatile Organic Compounds (VOC)

Pursuant to 326 IAC 8-3-2 (Cold Cleaner Operations) for cold cleaning operations constructed after January 1, 1980, the owner or operator shall:

(a) Equip the cleaner with a cover;

(b) Equip the cleaner with a facility for draining cleaned parts;

(c) Close the degreaser cover whenever parts are not being handled in the cleaner;

(d) Drain cleaned parts for at least fifteen (15) seconds or until dripping ceases;

(e) Provide a permanent, conspicuous label summarizing the operation requirements;

(f) Store waste solvent only in covered containers and not dispose of waste solvent or transfer it to another party, in such a manner that greater than twenty percent (20%) of the waste solvent (by weight) can evaporate into the atmosphere.

D.4.2 Volatile Organic Compounds (VOC)

(a) Pursuant to 326 IAC 8-3-5(a) (Cold Cleaner Degreaser Operation and Control), the owner or operator of a cold cleaner degreaser facility construction of which commenced after July 1, 1990 shall ensure that the following control equipment requirements are met:

(1) Equip the degreaser with a cover. The cover must be designed so that it can be easily operated with one (1) hand if:

(A) The solvent volatility is greater than two (2) kiloPascals (fifteen (15) millimeters of mercury or three-tenths (0.3) pounds per square inch) measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F));

(B) The solvent is agitated; or

(C) The solvent is heated.

(2) Equip the degreaser with a facility for draining cleaned articles. If the solvent volatility is greater than four and three-tenths (4.3) kiloPascals (thirty-two (32) millimeters of mercury or six-tenths (0.6) pounds per square inch) measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F)), then the drainage facility must be internal such that articles are enclosed under the cover while draining. The drainage facility may be external for applications where an internal type cannot fit into the cleaning system.

(3) Provide a permanent, conspicuous label which lists the operating requirements outlined in subsection (b).

(4) The solvent spray, if used, must be a solid, fluid stream and shall be applied at a pressure which does not cause excessive splashing.

(5) Equip the degreaser with one (1) of the following control devices if the solvent volatility is greater than four and three-tenths (4.3) kiloPascals (thirty-two (32) millimeters of mercury or six-tenths (0.6) pounds per square inch) measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F)), or if the solvent is heated to a temperature greater than forty-eight and nine-tenths degrees Celsius (48.9°C) (one hundred twenty degrees Fahrenheit (120°F)):

(A) A freeboard that attains a freeboard ratio of seventy-five hundredths (0.75) or greater.

(B) A water cover when solvent is used is insoluble in, and heavier than, water.

(C) Other systems of demonstrated equivalent control such as a refrigerated chiller of carbon adsorption. Such systems shall be submitted to the U.S. EPA as a SIP revision.

(b) Pursuant to 326 IAC 8-3-5(b) (Cold Cleaner Degreaser Operation and Control), the owner or operator of a cold cleaning facility construction of which commenced after July 1, 1990 shall ensure that the following operating requirements are met:

(1) Close the cover whenever articles are not being handled in the degreaser.

(2) Drain cleaned articles for at least fifteen (15) seconds or until dripping ceases.

(3) Store waste solvent only in covered containers and prohibit the disposal or transfer of waste solvent in any manner in which greater than twenty percent (20%) of the waste solvent by weight could evaporate.

D.4.3 Standards of Performance for Volatile Organic Liquid Storage Vessels [326 IAC 12] [40 CFR 60.116b, Subpart Kb]

The one (1) 25,000 gallon No.2 diesel storage tank shall comply with the New Source Performance Standards (NSPS), 326 IAC 12 (40 CFR Part 60.116b, Subpart Kb). 40 CFR Part 60.116b paragraphs (a) and (b) require the Permittee to maintain accessible records showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel. Records shall be kept for the life of the storage tanks.

Record Keeping and Reporting Requirement [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

D.4.4 Standards of Performance for Volatile Organic Liquid Storage Vessels [326 IAC 12] [40 CFR 60.116b, Subpart Kb]

The Permittee shall maintain accessible records showing the dimension of the No.2 diesel storage tank and an analysis showing the capacity of the storage vessel. Records shall be kept for the life of the storage tank.

SECTION E.1 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description: Insignificant Unit

(e) One (1) emergency diesel powered generator with maximum capacity of 1490 horse power. [Under 40 CFR 60, Subpart IIII, the emergency generator is considered a new affected source.][Under 40 CFR 63, Subpart ZZZZ, the emergency generator is considered a new affected source.]

(The information describing the process contained in this emissions unit description box is descriptive information and does not constitute enforceable conditions.)

National Emissions Standard for Hazardous Air Pollutants [40 CFR Part 63]

E.1.1 National Emissions Standard for Hazardous Air Pollutants for stationary reciprocating Internal Combustion Engines [40 CFR Part 63, Subpart ZZZZ]

Pursuant to CFR Part 63, Subpart ZZZZ, the Permittee shall comply with the provisions of 40 CFR Part 63.6590, for the affected source, as specified as follows:

(1) 40 CFR 63.6580
(2) 40 CFR 63.6585
(3) 40 CFR 63.6590(a)(2)(iii) and (c)(1)
(4) 40 CFR 63.6595(a)(7)
(5) 40 CFR 63.6665
(6) 40 CFR 63.6670
(7) 40 CFR 63.6675

SECTION E.2 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description: Insignificant Unit

(e) One (1) emergency diesel powered generator with maximum capacity of 1490 horse power. [Under 40 CFR 60, Subpart IIII, the emergency generator is considered a new affected source.][Under 40 CFR 63, Subpart ZZZZ, the emergency generator is considered a new affected source.]

(The information describing the process contained in this emissions unit description box is descriptive information and does not constitute enforceable conditions.)

New Source Performance Standards [40 CFR Part 60]

E.2.1 General Provisions Relating to NSPS IIII [326 IAC 12][40 CFR Part 60, Subpart A]

The provisions of 40 CFR Part 60, Subpart A – General Provisions, which are incorporated by reference in 326 IAC 12-1, apply to the boiler described in this section except when otherwise specified in 40 CFR Part 60, Subpart IIII.

E.2.2 Standards of Performance for Stationary Compression Ingnition Internal Combustion Engines [326 IAC 12][40 CFR Part 60, Subpart IIII]

The Permittee who owns and operates stationary compression ignition (CI) internal combustion engines (ICE) shall comply with the following provisions of 40 CFR Part 60, Subpart IIII, included as Attachment B of this permit. The source is subject to the following portions of Subpart IIII:

(1) 40 CFR 60.4200
(2) 40 CFR 60.4205
(3) 40 CFR 60.4206
(4) 40 CFR 60.4207
(5) 40 CFR 60.4208
(6) 40 CFR 60.4209
(7) 40 CFR 60.4211
(8) 40 CFR 60.4212
(9) 40 CFR 60.4214
(10) 40 CFR 60.4218

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY

PART 70 OPERATING PERMIT
CERTIFICATION

Source Name: Cummins Industrial Center
Source Address: 800 East Third Street, Seymour, Indiana 47274
Part 70 Permit Renewal No.: T071-21065-00015

This certification shall be included when submitting monitoring, testing reports/results, or other documents as required by this permit.

Please check what document is being certified:

☐ Annual Compliance Certification Letter

☐ Test Result (specify)

☐ Report (specify)

☐ Notification (specify)

☐ Affidavit (specify)

☐ Other (specify)

I certify that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.
Signature:
Printed Name:
Title/Position:
Phone:
Date:

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE BRANCH
100 North Senate Avenue
Indianapolis, Indiana 46204
Phone: 317-233-0178
Fax: 317-233-6865

PART 70 OPERATING PERMIT
EMERGENCY OCCURRENCE REPORT

Source Name: Cummins Industrial Center
Source Address: 800 East Third Street, Seymour, Indiana 47274
Part 70 Permit Renewal No.: T071-21065-00015

This form consists of 2 pages **Page 1 of 2**

☐ This is an emergency as defined in 326 IAC 2-7-1(12)

☐ The Permittee must notify the Office of Air Quality (OAQ), within four (**4**) business hours (1-800-451-6027 or 317-233-0178, ask for Compliance Section); and

☐ The Permittee must submit notice by mail or facsimile within two (**2**) working days (Facsimile Number: 317-233-6865), and follow the other requirements of 326 IAC 2-7-16.

If any of the following are not applicable, mark N/A

Facility/Equipment/Operation:
Control Equipment:
Permit Condition or Operation Limitation in Permit:
Description of the Emergency:
Describe the cause of the Emergency:

If any of the following are not applicable, mark N/A **Page 2 of 2**

Date/Time Emergency started:
Date/Time Emergency was corrected:
Was the facility being properly operated at the time of the emergency? Y N
Type of Pollutants Emitted: TSP, PM-10, SO_2, VOC, NO_X, CO, Pb, other:
Estimated amount of pollutant(s) emitted during emergency:
Describe the steps taken to mitigate the problem:
Describe the corrective actions/response steps taken:
Describe the measures taken to minimize emissions:
If applicable, describe the reasons why continued operation of the facilities are necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw materials of substantial economic value:

Form Completed by:

Title / Position:

Date:

Phone:

A certification is not required for this report.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE BRANCH

Part 70 Quarterly Report for Fuel Usage Limit

Source Name: Cummins Industrial Center
Source Address: 800 East Third Street, Seymour, Indiana 47274
Mailing Address: 800 East Third Street, Seymour, Indiana 47274
Part 70 Renewal Permit No.: T071-21065-00015
Facilities: Seventeen (17) engine test cells, known as EU-02A, EU-02B and EU-02C
Parameter: NOx Emissions
Limit: NOx emissions shall not exceed 217.9 tons of NOx per twelve (12) consecutive month period

YEAR: _____

Month	This Month			Previous 11 Months			12 Month Total		
	EU-02 Diesel Fuel, biodiesel or propane (gallons)		EU-02 Equivalent NO_X (tons) A + (B + C)	EU-02 Diesel Fuel, biodiesel or propane (gallons)		EU-02 Equivalent NO_X (tons) A + (B + C)	EU-02 Diesel Fuel, biodiesel or propane (gallons)		EU-02 Equivalent NO_X (tons) A + (B + C)
	A	B + C		A	B + C		A	B + C	
	Natural Gas (cubic feet)			Natural Gas (cubic feet)			Natural Gas (cubic feet)		
	A	B		A	B		A	B	

Total NOx Emissions from Diesel Fuel, Natural Gas, biodiesel or propane	Month	Month	Month
12 Month Total (tons)			

☐ No deviation occurred in this quarter.

☐ Deviation(s) occurred in this quarter.
Deviation has been reported on: _____

Submitted by: _____

Title / Position: _____

Signature: _____

Date: _____

Phone: _____

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION

Part 70 Quarterly Report

Source Name: Cummins Industrial Center
Source Address: 800 East Third Street, Seymour Indiana 47274
Mailing Address: 800 East Third Street, Seymour Indiana 47274
Part 70 Permit No.: T071-21065-00015
Facility: EU-02B and EU-02C
Parameter: VOC
Limit: Less than 163.56 tons per twelve (12) consecutive month period.

QUARTER : YEAR:

Month	Column 1	Column 2	Column 1 + Column 2
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

☐ No deviation occurred in this quarter.

☐ Deviation/s occurred in this quarter.
Deviation has been reported on:

Submitted by: _____
Title / Position: _____
Signature: _____
Date: _____
Phone: _____

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION

Part 70 Quarterly Report

Source Name: Cummins Industrial Center
Source Address: 800 East Third Street, Seymour Indiana 47274
Mailing Address: 800 East Third Street, Seymour Indiana 47274
Part 70 Permit No.: T071-21065-00015
Facility: EU-02B and EU-02C
Parameter: CO
Limit: Less than 183.62 tons per twelve (12) consecutive month period.

QUARTER : YEAR:

Month	Column 1	Column 2	Column 1 + Column 2
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

☐ No deviation occurred in this quarter.

☐ Deviation/s occurred in this quarter.
Deviation has been reported on:

Submitted by: _____
Title / Position: _____
Signature: _____
Date: _____
Phone: _____

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION

Part 70 Quarterly Report

Source Name: **Cummins Industrial Center**
Source Address: **800 East Third Street, Seymour, Indiana 47274**
Part 70 Permit No.: T071-21065-00015
Facilities: **Five (5) engine test cells and Three (3) Production Lines**
Parameter: **NOx Emissions**
Limit: **NOx emissions shall not exceed 218 tons of NOx per twelve (12) consecutive month period**

YEAR: _____

Month	Fuel Type	Engines	Ef ID	Emission Factor Value (lb/gal or lb/cf)	Combined Fuel Usage This Month (gal of cf)	NOx Emissions (tons), This Month	Total NOx Emissions (tons), This Month, all engines	NOx Emissions (tons), Previous 11 Months, all engines	NOx Emissions (tons) 12 month total, all engines
	Diesel	HHP6-HHP10	Ef1n						
		Production 1-3	Ef2n						
	Natural Gas	HHP6-HHP10	Ef3n						
	Biodiesel	HHP6-HHP10	Ef4n						
		Production 1-3	Ef6n						
	Propane	HHP6-HHP10	Ef5n						
	JP8/JetA	HHP6-HHP10,	Ef7n						

☐ No deviation occurred in this quarter.
☐ Deviation(s) occurred in this quarter.
Deviation has been reported on: _____

Submitted by: _____
Title / Position: _____
Signature: _____
Date: _____
Phone: _____

Attach a signed certification that meets the requirements of 326 IAC 2-7-6(1) to complete this report.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION

Part 70 Quarterly Report

Source Name: Cummins Industrial Center
Source Address: 800 East Third Street, Seymour Indiana 47274
Part 70 Permit No.: T071-21065-00015
Facility: Five (5) engine test cells and Three (3) Production Lines
Parameter: PM
Limit: Less than 248 tons per twelve (12) consecutive month period.

QUARTER : YEAR:

Month	Column 1	Column 2	Column 1 + Column 2
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

☐ No deviation occurred in this quarter.

☐ Deviation/s occurred in this quarter.
Deviation has been reported on:

Submitted by: _____
Title / Position: _____
Signature: _____
Date: _____
Phone: _____

Attach a signed certification that meets the requirements of 326 IAC 2-7-6(1) to complete this report.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

OFFICE OF AIR QUALITY

COMPLIANCE DATA SECTION

Part 70 Quarterly Report

Source Name: Cummins Industrial Center
Source Address: 800 East Third Street, Seymour Indiana 47274
Part 70 Permit No.: T071-21065-00015
Facility: Five (5) engine test cells and Three (3) Production Lines
Parameter: CO
Limit: Less than 230 tons per twelve (12) consecutive month period.

QUARTER : YEAR:

Month	Column 1	Column 2	Column 1 + Column 2
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

☐ No deviation occurred in this quarter.

☐ Deviation/s occurred in this quarter.
Deviation has been reported on:

Submitted by: _____
Title / Position: _____
Signature: _____
Date: _____
Phone: _____

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

OFFICE OF AIR QUALITY
COMPLIANCE AND ENFORCEMENT BRANCH

Part 70 Quarterly Report

Source Name: Cummins Industrial Center
Source Address: 800 East Third Street, Seymour, Indiana 47274
Part 70 Permit No.: T071-21065-00015
Facility: HHP6
Parameter: VOC
Limit: Less than 25 tons per twelve (12) consecutive month period with compliance determined at the end of each month.

QUARTER : YEAR:

Month	Column 1	Column 2	Column 1 + Column 2
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

☐ No deviation occurred in this quarter.

☐ Deviation/s occurred in this quarter.
Deviation has been reported on:
Submitted by: _____
Title / Position: _____
Signature: _____
Date: _____
Phone: _____

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

OFFICE OF AIR QUALITY
COMPLIANCE AND ENFORCEMENT BRANCH

Part 70 Quarterly Report

Source Name: Cummins Industrial Center
Source Address: 800 East Third Street, Seymour, Indiana 47274
Part 70 Permit No.: T071-21065-00015
Facility: HHP7
Parameter: VOC
Limit: Less than 25 tons per twelve (12) consecutive month period with compliance determined at the end of each month.

QUARTER : YEAR:

Month	Column 1	Column 2	Column 1 + Column 2
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

☐ No deviation occurred in this quarter.

☐ Deviation/s occurred in this quarter.
Deviation has been reported on:
Submitted by: _____
Title / Position: _____
Signature: _____
Date: _____
Phone: _____

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

OFFICE OF AIR QUALITY
COMPLIANCE AND ENFORCEMENT BRANCH

Part 70 Quarterly Report

Source Name: Cummins Industrial Center
Source Address: 800 East Third Street, Seymour, Indiana 47274
Part 70 Permit No.: T071-21065-00015
Facility: HHP8
Parameter: VOC
Limit: Less than 25 tons per twelve (12) consecutive month period with compliance determined at the end of each month.

QUARTER : YEAR:

Month	Column 1	Column 2	Column 1 + Column 2
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

☐ No deviation occurred in this quarter.

☐ Deviation/s occurred in this quarter.
Deviation has been reported on:
Submitted by: _____
Title / Position: _____
Signature: _____
Date: _____
Phone: _____

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

OFFICE OF AIR QUALITY
COMPLIANCE AND ENFORCEMENT BRANCH

Part 70 Quarterly Report

Source Name: Cummins Industrial Center
Source Address: 800 East Third Street, Seymour, Indiana 47274
Part 70 Permit No.: T071-21065-00015
Facility: HHP9
Parameter: VOC
Limit: Less than 25 tons per twelve (12) consecutive month period with compliance determined at the end of each month.

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QUARTER : YEAR:

Month	Column 1	Column 2	Column 1 + Column 2
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

☐ No deviation occurred in this quarter.

☐ Deviation/s occurred in this quarter.
Deviation has been reported on:
Submitted by: _____
Title / Position: _____
Signature: _____
Date: _____
Phone: _____

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

OFFICE OF AIR QUALITY
COMPLIANCE AND ENFORCEMENT BRANCH

Part 70 Quarterly Report

Source Name: Cummins Industrial Center
Source Address: 800 East Third Street, Seymour, Indiana 47274
Part 70 Permit No.: T071-21065-00015
Facility: HHP10
Parameter: VOC
Limit: Less than 25 tons per twelve (12) consecutive month period with compliance determined at the end of each month.

QUARTER : YEAR:

Month	Column 1	Column 2	Column 1 + Column 2
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

☐ No deviation occurred in this quarter.

☐ Deviation/s occurred in this quarter.
Deviation has been reported on:
Submitted by: _____
Title / Position: _____
Signature: _____
Date: _____
Phone: _____

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

OFFICE OF AIR QUALITY
COMPLIANCE AND ENFORCEMENT BRANCH

Part 70 Quarterly Report

Source Name: Cummins Industrial Center
Source Address: 800 East Third Street, Seymour, Indiana 47274
Part 70 Permit No.: T071-21065-00015
Facility: Production 1
Parameter: VOC
Limit: Less than 25 tons per twelve (12) consecutive month period with compliance determined at the end of each month.

QUARTER : YEAR:

Month	Column 1	Column 2	Column 1 + Column 2
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

☐ No deviation occurred in this quarter.

☐ Deviation/s occurred in this quarter.
Deviation has been reported on:
Submitted by: _____
Title / Position: _____
Signature: _____
Date: _____
Phone: _____

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

OFFICE OF AIR QUALITY
COMPLIANCE AND ENFORCEMENT BRANCH

Part 70 Quarterly Report

Source Name: Cummins Industrial Center
Source Address: 800 East Third Street, Seymour, Indiana 47274
Part 70 Permit No.: T071-21065-00015
Facility: Production 2
Parameter: VOC
Limit: Less than 25 tons per twelve (12) consecutive month period with compliance determined at the end of each month.

QUARTER : YEAR:

Month	Column 1	Column 2	Column 1 + Column 2
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

☐ No deviation occurred in this quarter.

☐ Deviation/s occurred in this quarter.
Deviation has been reported on:
Submitted by: _____
Title / Position: _____
Signature: _____
Date: _____
Phone: _____

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

OFFICE OF AIR QUALITY
COMPLIANCE AND ENFORCEMENT BRANCH

Part 70 Quarterly Report

Source Name: Cummins Industrial Center
Source Address: 800 East Third Street, Seymour, Indiana 47274
Part 70 Permit No.: T071-21065-00015
Facility: Production 3
Parameter: VOC
Limit: Less than 25 tons per twelve (12) consecutive month period with compliance determined at the end of each month.

QUARTER : YEAR:

Month	Column 1	Column 2	Column 1 + Column 2
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

☐ No deviation occurred in this quarter.

☐ Deviation/s occurred in this quarter.
Deviation has been reported on:
Submitted by: _____
Title / Position: _____
Signature: _____
Date: _____
Phone: _____

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION

Part 70 Quarterly Report

Source Name: Cummins Industrial Center
Source Address: 800 East Third Street, Seymour, Indiana 47274
Part 70 Permit No.: T071-21065-00015
Facility: Twenty-five test cells and the Paint spray line booth
Parameter: Single HAP Limit
Limit: Less than 9 tons per year for any single HAP per twelve (12) consecutive month period

YEAR:_____

Month	Column 1	Column 2	Column 1 + Column 2
	This Month	Previous 11 Months	12 Month Total
Month 1	Single HAP (tons)	Single HAP (tons)	Single HAP (tons)
Month 2			
Month 3			

☐ No deviation occurred in this quarter.

☐ Deviation/s occurred in this quarter.
Deviation has been reported on:_____

Submitted by: _____
Title / Position: _____
Signature: _____
Date: _____
Phone: _____

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION

Part 70 Quarterly Report

Source Name: Cummins Industrial Center
Source Address: 800 East Third Street, Seymour, Indiana 47274
Part 70 Permit No.: T071-21065-00015
Facility: Twenty-five test cells and the Paint spray line booth
Parameter: Total HAPs Limit
Limit: Less than 24 tons per year for total HAPs per twelve (12) consecutive month period

YEAR:_____

Month	Column 1	Column 2	Column 1 + Column 2
	This Month	Previous 11 Months	12 Month Total
Month 1	Total HAPs (tons)	Total HAPs (tons)	Total HAPs (tons)
Month 2			
Month 3			

☐ No deviation occurred in this quarter.

☐ Deviation/s occurred in this quarter.
Deviation has been reported on:_____

Submitted by: _____
Title / Position: _____
Signature: _____
Date: _____
Phone: _____

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION

PART 70 OPERATING PERMIT
QUARTERLY DEVIATION AND COMPLIANCE MONITORING REPORT

Source Name: Cummins Industrial Center
Source Address: 800 East Third Street, Seymour, Indiana 47274
Part 70 Permit Renewal No.: T071-21065-00015

Months: _____ **to** _____ **Year:** _____

This report shall be submitted quarterly based on a calendar year. Any deviation from the requirements of this permit, the date(s) of each deviation, the probable cause of the deviation, and the response steps taken must be reported. A deviation required to be reported pursuant to an applicable requirement that exists independent of the permit, shall be reported according to the schedule stated in the applicable requirement and does not need to be included in this report. Additional pages may be attached if necessary. If no deviations occurred, please specify in the box marked "No deviations occurred this reporting period".	
☐ NO DEVIATIONS OCCURRED THIS REPORTING PERIOD.	
☐ THE FOLLOWING DEVIATIONS OCCURRED THIS REPORTING PERIOD	
Permit Requirement (specify permit condition #)	
Date of Deviation:	**Duration of Deviation:**
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	
Permit Requirement (specify permit condition #)	
Date of Deviation:	**Duration of Deviation:**
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	

Permit Requirement (specify permit condition #)	
Date of Deviation:	**Duration of Deviation:**
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	
Permit Requirement (specify permit condition #)	
Date of Deviation:	**Duration of Deviation:**
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	
Permit Requirement (specify permit condition #)	
Date of Deviation:	**Duration of Deviation:**
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	

Form Completed By:

Title/Position:

Date:

Phone:

Attach a signed certification that meets the requirements of 326 IAC 2-7-6(1) to complete this report.

Attachment A
to a Part 70 Operating Permit

40 CFR 63, Subpart ZZZZ—National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines:

Source Name:	Cummins Industrial Center
Source Location:	800 East Third Street, Seymour, IN 47274
County:	Jackson
SIC Code:	3519
Operation Permit No.:	T071-21065-00015
Operation Permit Issuance Date:	December 28, 2006
Significant Source Modification No.:	071-29612-00015
Significant Permit Modification No.:	071-29636-00015
Permit Reviewer:	Josiah Balogun

Subpart ZZZZ—National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines

Source: 69 FR 33506, June 15, 2004, unless otherwise noted.

What This Subpart Covers

§ 63.6580 What is the purpose of subpart ZZZZ?

Subpart ZZZZ establishes national emission limitations and operating limitations for hazardous air pollutants (HAP) emitted from stationary reciprocating internal combustion engines (RICE) located at major and area sources of HAP emissions. This subpart also establishes requirements to demonstrate initial and continuous compliance with the emission limitations and operating limitations.

[73 FR 3603, Jan. 18, 2008]

§ 63.6585 Am I subject to this subpart?

You are subject to this subpart if you own or operate a stationary RICE at a major or area source of HAP emissions, except if the stationary RICE is being tested at a stationary RICE test cell/stand.

(a) A stationary RICE is any internal combustion engine which uses reciprocating motion to convert heat energy into mechanical work and which is not mobile. Stationary RICE differ from mobile RICE in that a stationary RICE is not a non-road engine as defined at 40 CFR 1068.30, and is not used to propel a motor vehicle or a vehicle used solely for competition.

(b) A major source of HAP emissions is a plant site that emits or has the potential to emit any single HAP at a rate of 10 tons (9.07 megagrams) or more per year or any combination of HAP at a rate of 25 tons (22.68 megagrams) or more per year, except that for oil and gas production facilities, a major source of HAP emissions is determined for each surface site.

(c) An area source of HAP emissions is a source that is not a major source.

(d) If you are an owner or operator of an area source subject to this subpart, your status as an entity subject to a standard or other requirements under this subpart does not subject you to the obligation to obtain a permit under 40 CFR part 70 or 71, provided you are not required to obtain a permit under 40 CFR 70.3(a) or 40 CFR 71.3(a) for a reason other than your status as an area source under this subpart. Notwithstanding the previous sentence, you must continue to comply with the provisions of this subpart as applicable.

(e) If you are an owner or operator of a stationary RICE used for national security purposes, you may be eligible to request an exemption from the requirements of this subpart as described in 40 CFR part 1068, subpart C.

[69 FR 33506, June 15, 2004, as amended at 73 FR 3603, Jan. 18, 2008]

§ 63.6590 What parts of my plant does this subpart cover?

This subpart applies to each affected source.

(a) *Affected source.* An affected source is any existing, new, or reconstructed stationary RICE located at a major or area source of HAP emissions, excluding stationary RICE being tested at a stationary RICE test cell/stand.

(1) *Existing stationary RICE.*

(i) For stationary RICE with a site rating of more than 500 brake horsepower (HP) located at a major source of HAP emissions, a stationary RICE is existing if you commenced construction or reconstruction of the stationary RICE before December 19, 2002.

(ii) For stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions, a stationary RICE is existing if you commenced construction or reconstruction of the stationary RICE before June 12, 2006.

(iii) For stationary RICE located at an area source of HAP emissions, a stationary RICE is existing if you commenced construction or reconstruction of the stationary RICE before June 12, 2006.

(iv) A change in ownership of an existing stationary RICE does not make that stationary RICE a new or reconstructed stationary RICE.

(2) *New stationary RICE.* (i) A stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions is new if you commenced construction of the stationary RICE on or after December 19, 2002.

(ii) A stationary RICE with a site rating of equal to or less than 500 brake HP located at a major source of HAP emissions is new if you commenced construction of the stationary RICE on or after June 12, 2006.

(iii) A stationary RICE located at an area source of HAP emissions is new if you commenced construction of the stationary RICE on or after June 12, 2006.

(3) *Reconstructed stationary RICE.* (i) A stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions is reconstructed if you meet the definition of reconstruction in §63.2 and reconstruction is commenced on or after December 19, 2002.

(ii) A stationary RICE with a site rating of equal to or less than 500 brake HP located at a major source of HAP emissions is reconstructed if you meet the definition of reconstruction in §63.2 and reconstruction is commenced on or after June 12, 2006.

(iii) A stationary RICE located at an area source of HAP emissions is reconstructed if you meet the definition of reconstruction in §63.2 and reconstruction is commenced on or after June 12, 2006.

(b) *Stationary RICE subject to limited requirements.* (1) An affected source which meets either of the criteria in paragraph (b)(1)(i) through (ii) of this section does not have to meet the requirements of this subpart and of subpart A of this part except for the initial notification requirements of §63.6645(h).

(i) The stationary RICE is a new or reconstructed emergency stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions; or

(ii) The stationary RICE is a new or reconstructed limited use stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions.

(2) A new or reconstructed stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions which combusts landfill or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis must meet the initial notification requirements of §63.6645(h) and the requirements of §§63.6625(c), 63.6650(g), and 63.6655(c). These stationary RICE do not have to meet the emission limitations and operating limitations of this subpart.

(3) A stationary RICE which is an existing spark ignition 4 stroke rich burn (4SRB) stationary RICE located at an area source, an existing spark ignition 4SRB stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source, an existing spark ignition 2 stroke lean burn (2SLB) stationary RICE, an existing spark ignition 4 stroke lean burn (4SLB) stationary RICE, an existing compression ignition (CI) stationary RICE, an existing emergency stationary RICE, an existing limited use stationary RICE, or an existing stationary RICE that combusts landfill gas or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis, does not have to meet the requirements of this subpart and of subpart A of this part. No initial notification is necessary.

(c) *Stationary RICE subject to Regulations under 40 CFR Part 60.* An affected source that is a new or reconstructed stationary RICE located at an area source, or is a new or reconstructed stationary RICE located at a major source of HAP emissions and is a spark ignition 2 stroke lean burn (2SLB) stationary RICE with a site rating of less than 500 brake HP, a spark ignition 4 stroke lean burn (4SLB) stationary RICE with a site rating of less than 250 brake HP, or a 4 stroke rich burn (4SRB) stationary RICE with a site rating of less than or equal to 500 brake HP, a stationary RICE with a site rating of less than or equal to 500 brake HP which combusts landfill or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis, an emergency or limited use stationary RICE with a site rating of less than or equal to 500 brake HP, or a compression ignition (CI) stationary RICE with a site rating of less than or equal to 500 brake HP, must meet the requirements of this part by meeting the requirements of 40 CFR part 60 subpart IIII, for compression ignition engines or 40 CFR part 60 subpart JJJJ, for spark ignition engines. No further requirements apply for such engines under this part.

[69 FR 33506, June 15, 2004, as amended at 73 FR 3604, Jan. 18, 2008]

§ 63.6595 When do I have to comply with this subpart?

(a) *Affected Sources.* (1) If you have an existing stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions, you must comply with the applicable emission limitations and operating limitations no later than June 15, 2007.

(2) If you start up your new or reconstructed stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions before August 16, 2004, you must comply with the applicable emission limitations and operating limitations in this subpart no later than August 16, 2004.

(3) If you start up your new or reconstructed stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions after August 16, 2004, you must comply with the applicable emission limitations and operating limitations in this subpart upon startup of your affected source.

(4) If you start up your new or reconstructed stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions before January 18, 2008, you must comply with the applicable emission limitations and operating limitations in this subpart no later than January 18, 2008.

(5) If you start up your new or reconstructed stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions after January 18, 2008, you must comply with the applicable emission limitations and operating limitations in this subpart upon startup of your affected source.

(6) If you start up your new or reconstructed stationary RICE located at an area source of HAP emissions before January 18, 2008, you must comply with the applicable emission limitations and operating limitations in this subpart no later than January 18, 2008.

(7) If you start up your new or reconstructed stationary RICE located at an area source of HAP emissions after January 18, 2008, you must comply with the applicable emission limitations and operating limitations in this subpart upon startup of your affected source.

(b) *Area sources that become major sources.* If you have an area source that increases its emissions or its potential to emit such that it becomes a major source of HAP, the compliance dates in paragraphs (b)(1) and (2) of this section apply to you.

(1) Any stationary RICE for which construction or reconstruction is commenced after the date when your area source becomes a major source of HAP must be in compliance with this subpart upon startup of your affected source.

(2) Any stationary RICE for which construction or reconstruction is commenced before your area source becomes a major source of HAP must be in compliance with the provisions of this subpart that are applicable to RICE located at major sources within 3 years after your area source becomes a major source of HAP.

(c) If you own or operate an affected source, you must meet the applicable notification requirements in §63.6645 and in 40 CFR part 63, subpart A.

[69 FR 33506, June 15, 2004, as amended at 73 FR 3604, Jan. 18, 2008]

Emission and Operating Limitations

§ 63.6600 What emission limitations and operating limitations must I meet if I own or operate a stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions?

(a) If you own or operate an existing, new, or reconstructed spark ignition 4SRB stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions, you must comply with the emission limitations in Table 1a to this subpart and the operating limitations in Table 1b to this subpart which apply to you.

(b) If you own or operate a new or reconstructed 2SLB stationary RICE with a site rating of more than 500 brake HP located at major source of HAP emissions, a new or reconstructed 4SLB stationary RICE with a site rating of more than 500 brake HP located at major source of HAP emissions, or a new or reconstructed CI stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions, you must comply with the emission limitations in Table 2a to this subpart and the operating limitations in Table 2b to this subpart which apply to you.

(c) If you own or operate any of the following RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions, you do not need to comply with the emission limitations in Tables 1a and 2a to this subpart or operating limitations in Tables 1b and 2b to this subpart: an existing 2SLB stationary RICE, an existing 4SLB stationary RICE, or an existing CI stationary RICE; a stationary RICE that combusts landfill gas or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis; an emergency stationary RICE; or a limited use stationary RICE.

[73 FR 3605, Jan. 18, 2008]

§ 63.6601 What emission limitations must I meet if I own or operate a 4SLB stationary RICE with a site rating of greater than or equal to 250 brake HP and less than 500 brake HP located at a major source of HAP emissions?

If you own or operate a new or reconstructed 4SLB stationary RICE with a site rating of greater than or equal to 250 and less than or equal to 500 brake HP located at major source of HAP emissions manufactured on or after January 1, 2008, you must comply with the emission limitations in Table 2a to this subpart and the operating limitations in Table 2b to this subpart which apply to you.

[73 FR 3605, Jan. 18, 2008]

General Compliance Requirements

§ 63.6605 What are my general requirements for complying with this subpart?

(a) You must be in compliance with the emission limitations and operating limitations in this subpart that apply to you at all times, except during periods of startup, shutdown, and malfunction.

(b) If you must comply with emission limitations and operating limitations, you must operate and maintain your stationary RICE, including air pollution control and monitoring equipment, in a manner consistent with good air pollution control practices for minimizing emissions at all times, including during startup, shutdown, and malfunction.

Testing and Initial Compliance Requirements

§ 63.6610 By what date must I conduct the initial performance tests or other initial compliance demonstrations if I own or operate a stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions?

If you own or operate a stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions you are subject to the requirements of this section.

(a) You must conduct the initial performance test or other initial compliance demonstrations in Table 4 to this subpart that apply to you within 180 days after the compliance date that is specified for your stationary RICE in §63.6595 and according to the provisions in §63.7(a)(2).

(b) If you commenced construction or reconstruction between December 19, 2002 and June 15, 2004 and own or operate stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions, you must demonstrate initial compliance with either the proposed emission limitations or the promulgated emission limitations no later than February 10, 2005 or no later than 180 days after startup of the source, whichever is later, according to §63.7(a)(2)(ix).

(c) If you commenced construction or reconstruction between December 19, 2002 and June 15, 2004 and own or operate stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions, and you chose to comply with the proposed emission limitations when demonstrating initial compliance, you must conduct a second performance test to demonstrate compliance with the promulgated emission limitations by December 13, 2007 or after startup of the source, whichever is later, according to §63.7(a)(2)(ix).

(d) An owner or operator is not required to conduct an initial performance test on units for which a performance test has been previously conducted, but the test must meet all of the conditions described in paragraphs (d)(1) through (5) of this section.

(1) The test must have been conducted using the same methods specified in this subpart, and these methods must have been followed correctly.

(2) The test must not be older than 2 years.

(3) The test must be reviewed and accepted by the Administrator.

(4) Either no process or equipment changes must have been made since the test was performed, or the owner or operator must be able to demonstrate that the results of the performance test, with or without adjustments, reliably demonstrate compliance despite process or equipment changes.

(5) The test must be conducted at any load condition within plus or minus 10 percent of 100 percent load.

[69 FR 33506, June 15, 2004, as amended at 73 FR 3605, Jan. 18, 2008]

§ 63.6611 By what date must I conduct the initial performance tests or other initial compliance demonstrations if I own or operate a 4SLB SI stationary RICE with a site rating of greater than or equal to 250 and less than or equal to 500 brake HP located at a major source of HAP emissions?

If you own or operate a new or reconstructed 4SLB stationary RICE with a site rating of greater than or equal to 250 and less than or equal to 500 brake HP located at a major source of HAP emissions, you must conduct an initial performance test within 240 days after the compliance date that is specified for your stationary RICE in §63.6595 and according to the provisions specified in Table 4 to this subpart, as appropriate.

[73 FR 3605, Jan. 18, 2008]

§ 63.6615 When must I conduct subsequent performance tests?

If you must comply with the emission limitations and operating limitations, you must conduct subsequent performance tests as specified in Table 3 of this subpart.

§ 63.6620 What performance tests and other procedures must I use?

(a) You must conduct each performance test in Tables 3 and 4 of this subpart that applies to you.

(b) Each performance test must be conducted according to the requirements in §63.7(e)(1) and under the specific conditions that this subpart specifies in Table 4. The test must be conducted at any load condition within plus or minus 10 percent of 100 percent load.

(c) You may not conduct performance tests during periods of startup, shutdown, or malfunction, as specified in §63.7(e)(1).

(d) You must conduct three separate test runs for each performance test required in this section, as specified in §63.7(e)(3). Each test run must last at least 1 hour.

(e)(1) You must use Equation 1 of this section to determine compliance with the percent reduction requirement:

$$\frac{C_i - C_o}{C_i} \times 100 = R \qquad \text{(Eq. 1)}$$

Where:

C_i= concentration of CO or formaldehyde at the control device inlet,

C_o= concentration of CO or formaldehyde at the control device outlet, and

R = percent reduction of CO or formaldehyde emissions.

(2) You must normalize the carbon monoxide (CO) or formaldehyde concentrations at the inlet and outlet of the control device to a dry basis and to 15 percent oxygen, or an equivalent percent carbon dioxide (CO_2). If pollutant concentrations are to be corrected to 15 percent oxygen and CO_2concentration is measured in lieu of oxygen concentration measurement, a CO_2correction factor is needed. Calculate the CO_2correction factor as described in paragraphs (e)(2)(i) through (iii) of this section.

(i) Calculate the fuel-specific $F_o$value for the fuel burned during the test using values obtained from Method 19, section 5.2, and the following equation:

$$F_o = \frac{0.209\, F_d}{F_c} \qquad \text{(Eq. 2)}$$

Where:

F_o= Fuel factor based on the ratio of oxygen volume to the ultimate CO_2volume produced by the fuel at zero percent excess air.

0.209 = Fraction of air that is oxygen, percent/100.

F_d= Ratio of the volume of dry effluent gas to the gross calorific value of the fuel from Method 19, dsm^3 /J (dscf/10^6 Btu).

F_c= Ratio of the volume of CO_2produced to the gross calorific value of the fuel from Method 19, dsm^3 /J (dscf/10^6 Btu).

(ii) Calculate the CO_2correction factor for correcting measurement data to 15 percent oxygen, as follows:

$$X_{co_2} = \frac{5.9}{F_o} \qquad \text{(Eq. 3)}$$

Where:

X_{co2}= CO_2correction factor, percent.

5.9 = 20.9 percent O_2−15 percent O_2, the defined O_2correction value, percent.

(iii) Calculate the $NO_X$and SO_2gas concentrations adjusted to 15 percent O_2using CO_2as follows:

$$C_{adj} = C_d \frac{X_{co_2}}{\%CO_2} \qquad \text{(Eq. 4)}$$

Where:

$\%CO_2$= Measured CO_2concentration measured, dry basis, percent.

(f) If you comply with the emission limitation to reduce CO and you are not using an oxidation catalyst, if you comply with the emission limitation to reduce formaldehyde and you are not using NSCR, or if you comply with the emission limitation to limit the concentration of formaldehyde in the stationary RICE exhaust and you are not using an oxidation catalyst or NSCR, you must petition the Administrator for operating limitations to be established during the initial performance test and continuously monitored thereafter; or for approval of no operating limitations. You must not conduct the initial performance test until after the petition has been approved by the Administrator.

(g) If you petition the Administrator for approval of operating limitations, your petition must include the information described in paragraphs (g)(1) through (5) of this section.

(1) Identification of the specific parameters you propose to use as operating limitations;

(2) A discussion of the relationship between these parameters and HAP emissions, identifying how HAP emissions change with changes in these parameters, and how limitations on these parameters will serve to limit HAP emissions;

(3) A discussion of how you will establish the upper and/or lower values for these parameters which will establish the limits on these parameters in the operating limitations;

(4) A discussion identifying the methods you will use to measure and the instruments you will use to monitor these parameters, as well as the relative accuracy and precision of these methods and instruments; and

(5) A discussion identifying the frequency and methods for recalibrating the instruments you will use for monitoring these parameters.

(h) If you petition the Administrator for approval of no operating limitations, your petition must include the information described in paragraphs (h)(1) through (7) of this section.

(1) Identification of the parameters associated with operation of the stationary RICE and any emission control device which could change intentionally (*e.g.,* operator adjustment, automatic controller adjustment, etc.) or unintentionally (*e.g.,* wear and tear, error, etc.) on a routine basis or over time;

(2) A discussion of the relationship, if any, between changes in the parameters and changes in HAP emissions;

(3) For the parameters which could change in such a way as to increase HAP emissions, a discussion of whether establishing limitations on the parameters would serve to limit HAP emissions;

(4) For the parameters which could change in such a way as to increase HAP emissions, a discussion of how you could establish upper and/or lower values for the parameters which would establish limits on the parameters in operating limitations;

(5) For the parameters, a discussion identifying the methods you could use to measure them and the instruments you could use to monitor them, as well as the relative accuracy and precision of the methods and instruments;

(6) For the parameters, a discussion identifying the frequency and methods for recalibrating the instruments you could use to monitor them; and

(7) A discussion of why, from your point of view, it is infeasible or unreasonable to adopt the parameters as operating limitations.

(i) The engine percent load during a performance test must be determined by documenting the calculations, assumptions, and measurement devices used to measure or estimate the percent load in a specific application. A written report of the average percent load determination must be included in the notification of compliance status. The following information must be included in the written report: the engine model number, the engine manufacturer, the year of purchase, the manufacturer's site-rated brake horsepower, the ambient temperature, pressure, and humidity during the performance test, and all assumptions that were made to estimate or calculate percent load during the performance test must be clearly explained. If measurement devices such as flow meters, kilowatt meters, beta analyzers, stain gauges, etc. are used, the model number of the measurement device, and an estimate of its accurate in percentage of true value must be provided.

§ 63.6625 What are my monitoring, installation, operation, and maintenance requirements?

(a) If you elect to install a CEMS as specified in Table 5 of this subpart, you must install, operate, and maintain a CEMS to monitor CO and either oxygen or CO_2at both the inlet and the outlet of the control device according to the requirements in paragraphs (a)(1) through (4) of this section.

(1) Each CEMS must be installed, operated, and maintained according to the applicable performance specifications of 40 CFR part 60, appendix B.

(2) You must conduct an initial performance evaluation and an annual relative accuracy test audit (RATA) of each CEMS according to the requirements in §63.8 and according to the applicable performance specifications of 40 CFR part 60, appendix B as well as daily and periodic data quality checks in accordance with 40 CFR part 60, appendix F, procedure 1.

(3) As specified in §63.8(c)(4)(ii), each CEMS must complete a minimum of one cycle of operation (sampling, analyzing, and data recording) for each successive 15-minute period. You must have at least two data points, with each representing a different 15-minute period, to have a valid hour of data.

(4) The CEMS data must be reduced as specified in §63.8(g)(2) and recorded in parts per million or parts per billion (as appropriate for the applicable limitation) at 15 percent oxygen or the equivalent CO_2concentration.

(b) If you are required to install a continuous parameter monitoring system (CPMS) as specified in Table 5 of this subpart, you must install, operate, and maintain each CPMS according to the requirements in §63.8.

(c) If you are operating a new or reconstructed stationary RICE which fires landfill gas or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis, you must monitor and record your fuel usage daily with separate fuel meters to measure the volumetric flow rate of each fuel. In addition, you must operate your stationary RICE in a manner which reasonably minimizes HAP emissions.

(d) If you are operating a new or reconstructed emergency 4SLB stationary RICE with a site rating of greater than or equal to 250 and less than or equal to 500 brake HP located at a major source of HAP emissions, you must install a non-resettable hour meter prior to the startup of the engine.

[69 FR 33506, June 15, 2004, as amended at 73 FR 3606, Jan. 18, 2008]

§ 63.6630 How do I demonstrate initial compliance with the emission limitations and operating limitations?

(a) You must demonstrate initial compliance with each emission and operating limitation that applies to you according to Table 5 of this subpart.

(b) During the initial performance test, you must establish each operating limitation in Tables 1b and 2b of this subpart that applies to you.

(c) You must submit the Notification of Compliance Status containing the results of the initial compliance demonstration according to the requirements in §63.6645.

Continuous Compliance Requirements

§ 63.6635 How do I monitor and collect data to demonstrate continuous compliance?

(a) If you must comply with emission and operating limitations, you must monitor and collect data according to this section.

(b) Except for monitor malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments), you must monitor continuously at all times that the stationary RICE is operating.

(c) You may not use data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities in data averages and calculations used to report emission or operating levels. You must, however, use all the valid data collected during all other periods.

§ 63.6640 How do I demonstrate continuous compliance with the emission limitations and operating limitations?

(a) You must demonstrate continuous compliance with each emission limitation and operating limitation in Tables 1a and 1b and Tables 2a and 2b of this subpart that apply to you according to methods specified in Table 6 of this subpart.

(b) You must report each instance in which you did not meet each emission limitation or operating limitation in Tables 1a and 1b and Tables 2a and 2b of this subpart that apply to you. These instances are deviations from the emission and operating limitations in this subpart. These deviations must be reported according to the requirements in §63.6650. If you change your catalyst, you must reestablish the values of the operating parameters measured during the initial performance test. When you reestablish the values of your operating parameters, you must also conduct a performance test to demonstrate that you are meeting the required emission limitation applicable to your stationary RICE.

(c) [Reserved]

(d) Consistent with §§63.6(e) and 63.7(e)(1), deviations from the emission or operating limitations that occur during a period of startup, shutdown, or malfunction are not violations if you demonstrate to the Administrator's satisfaction that you were operating in accordance with §63.6(e)(1). For new, reconstructed, and rebuilt stationary RICE, deviations from the emission or operating limitations that occur during the first 200 hours of operation from engine startup (engine burn-in period) are not violations.

Rebuilt stationary RICE means a stationary RICE that has been rebuilt as that term is defined in 40 CFR §94.11(a).

(e) You must also report each instance in which you did not meet the requirements in Table 8 to this subpart that apply to you. If you own or operate any stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions (except new or reconstructed 4SLB engines greater than or equal to 250 and less than or equal to 500 brake HP), a stationary RICE located at an area source of HAP emissions, or any of the following RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions, you do not need to comply with the requirements in Table 8 to this subpart: An existing 2SLB stationary RICE, an existing 4SLB stationary RICE, an existing CI stationary RICE, an existing emergency stationary RICE, an existing limited use emergency stationary RICE, or an existing stationary RICE which fires landfill gas or digester gas equivalent to 10

percent or more of the gross heat input on an annual basis. If you own or operate any of the following RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions, you do not need to comply with the requirements in Table 8 to this subpart, except for the initial notification requirements: a new or reconstructed stationary RICE that combusts landfill gas or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis, a new or reconstructed emergency stationary RICE, or a new or reconstructed limited use stationary RICE.

[69 FR 33506, June 15, 2004, as amended at 71 FR 20467, Apr. 20, 2006; 73 FR 3606, Jan. 18, 2008]

Notifications, Reports, and Records

§ 63.6645 What notifications must I submit and when?

(a) If you own or operate a stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions or a new or reconstructed 4SLB stationary RICE with a site rating of greater than or equal to 250 HP located at a major source of HAP emissions, you must submit all of the notifications in §§63.7(b) and (c), 63.8(e), (f)(4) and (f)(6), 63.9(b) through (e), and (g) and (h) that apply to you by the dates specified.

(b) As specified in §63.9(b)(2), if you start up your stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions before the effective date of this subpart, you must submit an Initial Notification not later than December 13, 2004.

(c) If you start up your new or reconstructed stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions on or after August 16, 2004, you must submit an Initial Notification not later than 120 days after you become subject to this subpart.

(d) As specified in §63.9(b)(2), if you start up your stationary RICE with a site rating of equal to or less than 500 brake HP located at a major source of HAP emissions before the effective date of this subpart and you are required to submit an initial notification, you must submit an Initial Notification not later than July 16, 2008.

(e) If you start up your new or reconstructed stationary RICE with a site rating of equal to or less than 500 brake HP located at a major source of HAP emissions on or after March 18, 2008 and you are required to submit an initial notification, you must submit an Initial Notification not later than 120 days after you become subject to this subpart.

(f) If you are required to submit an Initial Notification but are otherwise not affected by the requirements of this subpart, in accordance with §63.6590(b), your notification should include the information in §63.9(b)(2)(i) through (v), and a statement that your stationary RICE has no additional requirements and explain the basis of the exclusion (for example, that it operates exclusively as an emergency stationary RICE if it has a site rating of more than 500 brake HP located at a major source of HAP emissions).

(g) If you are required to conduct a performance test, you must submit a Notification of Intent to conduct a performance test at least 60 days before the performance test is scheduled to begin as required in §63.7(b)(1).

(h) If you are required to conduct a performance test or other initial compliance demonstration as specified in Tables 4 and 5 to this subpart, you must submit a Notification of Compliance Status according to §63.9(h)(2)(ii).

(1) For each initial compliance demonstration required in Table 5 to this subpart that does not include a performance test, you must submit the Notification of Compliance Status before the close of business on the 30th day following the completion of the initial compliance demonstration.

(2) For each initial compliance demonstration required in Table 5 to this subpart that includes a performance test conducted according to the requirements in Table 3 to this subpart, you must submit the Notification of Compliance Status, including the performance test results, before the close of business on the 60th day following the completion of the performance test according to §63.10(d)(2).

[73 FR 3606, Jan. 18, 2008]

§ 63.6650 What reports must I submit and when?

(a) You must submit each report in Table 7 of this subpart that applies to you.

(b) Unless the Administrator has approved a different schedule for submission of reports under §63.10(a), you must submit each report by the date in Table 7 of this subpart and according to the requirements in paragraphs (b)(1) through (5) of this section.

(1) The first Compliance report must cover the period beginning on the compliance date that is specified for your affected source in §63.6595 and ending on June 30 or December 31, whichever date is the first date following the end of the first calendar half after the compliance date that is specified for your source in §63.6595.

(2) The first Compliance report must be postmarked or delivered no later than July 31 or January 31, whichever date follows the end of the first calendar half after the compliance date that is specified for your affected source in §63.6595.

(3) Each subsequent Compliance report must cover the semiannual reporting period from January 1 through June 30 or the semiannual reporting period from July 1 through December 31.

(4) Each subsequent Compliance report must be postmarked or delivered no later than July 31 or January 31, whichever date is the first date following the end of the semiannual reporting period.

(5) For each stationary RICE that is subject to permitting regulations pursuant to 40 CFR part 70 or 71, and if the permitting authority has established dates for submitting semiannual reports pursuant to 40 CFR 70.6 (a)(3)(iii)(A) or 40 CFR 71.6 (a)(3)(iii)(A), you may submit the first and subsequent Compliance reports according to the dates the permitting authority has established instead of according to the dates in paragraphs (b)(1) through (4) of this section.

(c) The Compliance report must contain the information in paragraphs (c)(1) through (6) of this section.

(1) Company name and address.

(2) Statement by a responsible official, with that official's name, title, and signature, certifying the accuracy of the content of the report.

(3) Date of report and beginning and ending dates of the reporting period.

(4) If you had a startup, shutdown, or malfunction during the reporting period, the compliance report must include the information in §63.10(d)(5)(i).

(5) If there are no deviations from any emission or operating limitations that apply to you, a statement that there were no deviations from the emission or operating limitations during the reporting period.

(6) If there were no periods during which the continuous monitoring system (CMS), including CEMS and CPMS, was out-of-control, as specified in §63.8(c)(7), a statement that there were no periods during which the CMS was out-of-control during the reporting period.

(d) For each deviation from an emission or operating limitation that occurs for a stationary RICE where you are not using a CMS to comply with the emission or operating limitations in this subpart, the Compliance report must contain the information in paragraphs (c)(1) through (4) of this section and the information in paragraphs (d)(1) and (2) of this section.

(1) The total operating time of the stationary RICE at which the deviation occurred during the reporting period.

(2) Information on the number, duration, and cause of deviations (including unknown cause, if applicable), as applicable, and the corrective action taken.

(e) For each deviation from an emission or operating limitation occurring for a stationary RICE where you are using a CMS to comply with the emission and operating limitations in this subpart, you must include information in paragraphs (c)(1) through (4) and (e)(1) through (12) of this section.

(1) The date and time that each malfunction started and stopped.

(2) The date, time, and duration that each CMS was inoperative, except for zero (low-level) and high-level checks.

(3) The date, time, and duration that each CMS was out-of-control, including the information in §63.8(c)(8).

(4) The date and time that each deviation started and stopped, and whether each deviation occurred during a period of malfunction or during another period.

(5) A summary of the total duration of the deviation during the reporting period, and the total duration as a percent of the total source operating time during that reporting period.

(6) A breakdown of the total duration of the deviations during the reporting period into those that are due to control equipment problems, process problems, other known causes, and other unknown causes.

(7) A summary of the total duration of CMS downtime during the reporting period, and the total duration of CMS downtime as a percent of the total operating time of the stationary RICE at which the CMS downtime occurred during that reporting period.

(8) An identification of each parameter and pollutant (CO or formaldehyde) that was monitored at the stationary RICE.

(9) A brief description of the stationary RICE.

(10) A brief description of the CMS.

(11) The date of the latest CMS certification or audit.

(12) A description of any changes in CMS, processes, or controls since the last reporting period.

(f) Each affected source that has obtained a title V operating permit pursuant to 40 CFR part 70 or 71 must report all deviations as defined in this subpart in the semiannual monitoring report required by 40 CFR 70.6 (a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A). If an affected source submits a Compliance report pursuant to Table 7 of this subpart along with, or as part of, the semiannual monitoring report required by 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A), and the Compliance report includes all required information concerning deviations from any emission or operating limitation in this subpart, submission of the Compliance report shall be deemed to satisfy any obligation to report the same deviations in the semiannual monitoring report. However, submission of a Compliance report shall not otherwise affect any obligation the affected source may have to report deviations from permit requirements to the permit authority.

(g) If you are operating as a new or reconstructed stationary RICE which fires landfill gas or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis, you must submit an annual report according to Table 7 of this subpart by the date specified unless the Administrator has approved a different schedule, according to the information described in paragraphs (b)(1) through (b)(5) of this section. You must report the data specified in (g)(1) through (g)(3) of this section.

(1) Fuel flow rate of each fuel and the heating values that were used in your calculations. You must also demonstrate that the percentage of heat input provided by landfill gas or digester gas is equivalent to 10 percent or more of the total fuel consumption on an annual basis.

(2) The operating limits provided in your federally enforceable permit, and any deviations from these limits.

(3) Any problems or errors suspected with the meters.

§ 63.6655 What records must I keep?

(a) If you must comply with the emission and operating limitations, you must keep the records described in paragraphs (a)(1) through (a)(3), (b)(1) through (b)(3) and (c) of this section.

(1) A copy of each notification and report that you submitted to comply with this subpart, including all documentation supporting any Initial Notification or Notification of Compliance Status that you submitted, according to the requirement in §63.10(b)(2)(xiv).

(2) The records in §63.6(e)(3)(iii) through (v) related to startup, shutdown, and malfunction.

(3) Records of performance tests and performance evaluations as required in §63.10(b)(2)(viii).

(b) For each CEMS or CPMS, you must keep the records listed in paragraphs (b)(1) through (3) of this section.

(1) Records described in §63.10(b)(2)(vi) through (xi).

(2) Previous (*i.e.,* superseded) versions of the performance evaluation plan as required in §63.8(d)(3).

(3) Requests for alternatives to the relative accuracy test for CEMS or CPMS as required in §63.8(f)(6)(i), if applicable.

(c) If you are operating a new or reconstructed stationary RICE which fires landfill gas or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis, you must keep the records of your daily fuel usage monitors.

(d) You must keep the records required in Table 6 of this subpart to show continuous compliance with each emission or operating limitation that applies to you.

§ 63.6660 In what form and how long must I keep my records?

(a) Your records must be in a form suitable and readily available for expeditious review according to §63.10(b)(1).

(b) As specified in §63.10(b)(1), you must keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.

(c) You must keep each record readily accessible in hard copy or electronic form on-site for at least 2 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to §63.10(b)(1). You can keep the records off-site for the remaining 3 years.

Other Requirements and Information

§ 63.6665 What parts of the General Provisions apply to me?

Table 8 to this subpart shows which parts of the General Provisions in §§63.1 through 63.15 apply to you. If you own or operate any stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions (except new or reconstructed 4SLB engines greater than or equal to 250 and less than or equal to 500 brake HP), a stationary RICE located at an area source of HAP emissions, or any of the following RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions, you do not need to comply with any of the requirements of the General Provisions: An existing 2SLB RICE, an existing 4SLB stationary RICE, an existing CI stationary RICE, an existing stationary RICE that combusts landfill gas or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis, an existing emergency stationary RICE, or an existing limited use stationary RICE. If you own or operate any of the following RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions, you do not need to comply with the requirements in the General

Provisions except for the initial notification requirements: A new stationary RICE that combusts landfill gas or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis, a new emergency stationary RICE, or a new limited use stationary RICE.

[73 FR 3606, Jan. 18, 2008]

§ 63.6670 Who implements and enforces this subpart?

(a) This subpart is implemented and enforced by the U.S. EPA, or a delegated authority such as your State, local, or tribal agency. If the U.S. EPA Administrator has delegated authority to your State, local, or tribal agency, then that agency (as well as the U.S. EPA) has the authority to implement and enforce this subpart. You should contact your U.S. EPA Regional Office to find out whether this subpart is delegated to your State, local, or tribal agency.

(b) In delegating implementation and enforcement authority of this subpart to a State, local, or tribal agency under 40 CFR part 63, subpart E, the authorities contained in paragraph (c) of this section are retained by the Administrator of the U.S. EPA and are not transferred to the State, local, or tribal agency.

(c) The authorities that will not be delegated to State, local, or tribal agencies are:

(1) Approval of alternatives to the non-opacity emission limitations and operating limitations in §63.6600 under §63.6(g).

(2) Approval of major alternatives to test methods under §63.7(e)(2)(ii) and (f) and as defined in §63.90.

(3) Approval of major alternatives to monitoring under §63.8(f) and as defined in §63.90.

(4) Approval of major alternatives to recordkeeping and reporting under §63.10(f) and as defined in §63.90.

(5) Approval of a performance test which was conducted prior to the effective date of the rule, as specified in §63.6610(b).

§ 63.6675 What definitions apply to this subpart?

Terms used in this subpart are defined in the Clean Air Act (CAA); in 40 CFR 63.2, the General Provisions of this part; and in this section as follows:

Area source means any stationary source of HAP that is not a major source as defined in part 63.

Associated equipment as used in this subpart and as referred to in section 112(n)(4) of the CAA, means equipment associated with an oil or natural gas exploration or production well, and includes all equipment from the well bore to the point of custody transfer, except glycol dehydration units, storage vessels with potential for flash emissions, combustion turbines, and stationary RICE.

CAA means the Clean Air Act (42 U.S.C. 7401 *et seq.,* as amended by Public Law 101–549, 104 Stat. 2399).

Compression ignition means relating to a type of stationary internal combustion engine that is not a spark ignition engine.

Custody transfer means the transfer of hydrocarbon liquids or natural gas: After processing and/or treatment in the producing operations, or from storage vessels or automatic transfer facilities or other such equipment, including product loading racks, to pipelines or any other forms of transportation. For the purposes of this subpart, the point at which such liquids or natural gas enters a natural gas processing plant is a point of custody transfer.

Deviation means any instance in which an affected source subject to this subpart, or an owner or operator of such a source:

(1) Fails to meet any requirement or obligation established by this subpart, including but not limited to any emission limitation or operating limitation;

(2) Fails to meet any term or condition that is adopted to implement an applicable requirement in this subpart and that is included in the operating permit for any affected source required to obtain such a permit; or

(3) Fails to meet any emission limitation or operating limitation in this subpart during malfunction, regardless or whether or not such failure is permitted by this subpart.

(4) Fails to satisfy the general duty to minimize emissions established by §63.6(e)(1)(i).

Diesel engine means any stationary RICE in which a high boiling point liquid fuel injected into the combustion chamber ignites when the air charge has been compressed to a temperature sufficiently high for auto-ignition. This process is also known as compression ignition.

Diesel fuel means any liquid obtained from the distillation of petroleum with a boiling point of approximately 150 to 360 degrees Celsius. One commonly used form is fuel oil number 2.

Digester gas means any gaseous by-product of wastewater treatment typically formed through the anaerobic decomposition of organic waste materials and composed principally of methane and CO_2.

Dual-fuel engine means any stationary RICE in which a liquid fuel (typically diesel fuel) is used for compression ignition and gaseous fuel (typically natural gas) is used as the primary fuel.

Emergency stationary RICE means any stationary RICE whose operation is limited to emergency situations and required testing and maintenance. Examples include stationary RICE used to produce power for critical networks or equipment (including power supplied to portions of a facility) when electric power from the local utility (or the normal power source, if the facility runs on its own power production) is interrupted, or stationary RICE used to pump water in the case of fire or flood, etc. Stationary RICE used for peak shaving are not considered emergency stationary RICE. Stationary ICE used to supply power to an electric grid or that supply power as part of a financial arrangement with another entity are not considered to be emergency engines. Emergency stationary RICE with a site-rating of more than 500 brake HP located at a major source of HAP emissions that were installed prior to June 12, 2006, may be operated for the purpose of maintenance checks and readiness testing, provided that the tests are recommended by the manufacturer, the vendor, or the insurance company associated with the engine. Required testing of such units should be minimized, but there is no time limit on the use of emergency stationary RICE in emergency situations and for routine testing and maintenance. Emergency stationary RICE with a site-rating of more than 500 brake HP located at a major source of HAP emissions that were installed prior to June 12, 2006, may also operate an additional 50 hours per year in non-emergency situations. Emergency stationary RICE with a site-rating of more than 500 brake HP located at a major source of HAP emissions that were installed on or after June 12, 2006, must comply with requirements specified in 40 CFR 60.4243(d).

Four-stroke engine means any type of engine which completes the power cycle in two crankshaft revolutions, with intake and compression strokes in the first revolution and power and exhaust strokes in the second revolution.

Gaseous fuel means a material used for combustion which is in the gaseous state at standard atmospheric temperature and pressure conditions.

Gasoline means any fuel sold in any State for use in motor vehicles and motor vehicle engines, or nonroad or stationary engines, and commonly or commercially known or sold as gasoline.

Glycol dehydration unit means a device in which a liquid glycol (including, but not limited to, ethylene glycol, diethylene glycol, or triethylene glycol) absorbent directly contacts a natural gas stream and absorbs water in a contact tower or absorption column (absorber). The glycol contacts and absorbs water vapor and other gas stream

constituents from the natural gas and becomes “rich” glycol. This glycol is then regenerated in the glycol dehydration unit reboiler. The “lean” glycol is then recycled.

Hazardous air pollutants (HAP) means any air pollutants listed in or pursuant to section 112(b) of the CAA.

ISO standard day conditions means 288 degrees Kelvin (15 degrees Celsius), 60 percent relative humidity and 101.3 kilopascals pressure.

Landfill gas means a gaseous by-product of the land application of municipal refuse typically formed through the anaerobic decomposition of waste materials and composed principally of methane and CO_2.

Lean burn engine means any two-stroke or four-stroke spark ignited engine that does not meet the definition of a rich burn engine.

Limited use stationary RICE means any stationary RICE that operates less than 100 hours per year.

Liquefied petroleum gas means any liquefied hydrocarbon gas obtained as a by-product in petroleum refining of natural gas production.

Liquid fuel means any fuel in liquid form at standard temperature and pressure, including but not limited to diesel, residual/crude oil, kerosene/naphtha (jet fuel), and gasoline.

Major Source, as used in this subpart, shall have the same meaning as in §63.2, except that:

(1) Emissions from any oil or gas exploration or production well (with its associated equipment (as defined in this section)) and emissions from any pipeline compressor station or pump station shall not be aggregated with emissions from other similar units, to determine whether such emission points or stations are major sources, even when emission points are in a contiguous area or under common control;

(2) For oil and gas production facilities, emissions from processes, operations, or equipment that are not part of the same oil and gas production facility, as defined in §63.1271 of subpart HHH of this part, shall not be aggregated;

(3) For production field facilities, only HAP emissions from glycol dehydration units, storage vessel with the potential for flash emissions, combustion turbines and reciprocating internal combustion engines shall be aggregated for a major source determination; and

(4) Emissions from processes, operations, and equipment that are not part of the same natural gas transmission and storage facility, as defined in §63.1271 of subpart HHH of this part, shall not be aggregated.

Malfunction means any sudden, infrequent, and not reasonably preventable failure of air pollution control equipment, process equipment, or a process to operate in a normal or usual manner which causes, or has the potential to cause, the emission limitations in an applicable standard to be exceeded. Failures that are caused in part by poor maintenance or careless operation are not malfunctions.

Natural gas means a naturally occurring mixture of hydrocarbon and non-hydrocarbon gases found in geologic formations beneath the Earth's surface, of which the principal constituent is methane. Natural gas may be field or pipeline quality.

Non-selective catalytic reduction (NSCR) means an add-on catalytic nitrogen oxides (NO_X) control device for rich burn engines that, in a two-step reaction, promotes the conversion of excess oxygen, NO_X, CO, and volatile organic compounds (VOC) into CO_2, nitrogen, and water.

Oil and gas production facility as used in this subpart means any grouping of equipment where hydrocarbon liquids are processed, upgraded (*i.e.,* remove impurities or other constituents to meet contract specifications), or stored prior to the point of custody transfer; or where natural gas is processed, upgraded, or stored prior to entering the natural gas transmission and storage source category. For purposes of a major source determination, facility (including a

building, structure, or installation) means oil and natural gas production and processing equipment that is located within the boundaries of an individual surface site as defined in this section. Equipment that is part of a facility will typically be located within close proximity to other equipment located at the same facility. Pieces of production equipment or groupings of equipment located on different oil and gas leases, mineral fee tracts, lease tracts, subsurface or surface unit areas, surface fee tracts, surface lease tracts, or separate surface sites, whether or not connected by a road, waterway, power line or pipeline, shall not be considered part of the same facility. Examples of facilities in the oil and natural gas production source category include, but are not limited to, well sites, satellite tank batteries, central tank batteries, a compressor station that transports natural gas to a natural gas processing plant, and natural gas processing plants.

Oxidation catalyst means an add-on catalytic control device that controls CO and VOC by oxidation.

Peaking unit or engine means any standby engine intended for use during periods of high demand that are not emergencies.

Percent load means the fractional power of an engine compared to its maximum manufacturer's design capacity at engine site conditions. Percent load may range between 0 percent to above 100 percent.

Potential to emit means the maximum capacity of a stationary source to emit a pollutant under its physical and operational design. Any physical or operational limitation on the capacity of the stationary source to emit a pollutant, including air pollution control equipment and restrictions on hours of operation or on the type or amount of material combusted, stored, or processed, shall be treated as part of its design if the limitation or the effect it would have on emissions is federally enforceable. For oil and natural gas production facilities subject to subpart HH of this part, the potential to emit provisions in §63.760(a) may be used. For natural gas transmission and storage facilities subject to subpart HHH of this part, the maximum annual facility gas throughput for storage facilities may be determined according to §63.1270(a)(1) and the maximum annual throughput for transmission facilities may be determined according to §63.1270(a)(2).

Production field facility means those oil and gas production facilities located prior to the point of custody transfer.

Production well means any hole drilled in the earth from which crude oil, condensate, or field natural gas is extracted.

Propane means a colorless gas derived from petroleum and natural gas, with the molecular structure C_3H_8.

Responsible official means responsible official as defined in 40 CFR 70.2.

Rich burn engine means any four-stroke spark ignited engine where the manufacturer's recommended operating air/fuel ratio divided by the stoichiometric air/fuel ratio at full load conditions is less than or equal to 1.1. Engines originally manufactured as rich burn engines, but modified prior to December 19, 2002 with passive emission control technology for NO_X(such as pre-combustion chambers) will be considered lean burn engines. Also, existing engines where there are no manufacturer's recommendations regarding air/fuel ratio will be considered a rich burn engine if the excess oxygen content of the exhaust at full load conditions is less than or equal to 2 percent.

Site-rated HP means the maximum manufacturer's design capacity at engine site conditions.

Spark ignition means relating to either: A gasoline-fueled engine; or any other type of engine a spark plug (or other sparking device) and with operating characteristics significantly similar to the theoretical Otto combustion cycle. Spark ignition engines usually use a throttle to regulate intake air flow to control power during normal operation. Dual-fuel engines in which a liquid fuel (typically diesel fuel) is used for CI and gaseous fuel (typically natural gas) is used as the primary fuel at an annual average ratio of less than 2 parts diesel fuel to 100 parts total fuel on an energy equivalent basis are spark ignition engines.

Stationary reciprocating internal combustion engine (RICE) means any reciprocating internal combustion engine which uses reciprocating motion to convert heat energy into mechanical work and which is not mobile. Stationary RICE differ from mobile RICE in that a stationary RICE is not a non-road engine as defined at 40 CFR 1068.30, and is not used to propel a motor vehicle or a vehicle used solely for competition.

Stationary RICE test cell/stand means an engine test cell/stand, as defined in subpart PPPPP of this part, that tests stationary RICE.

Stoichiometric means the theoretical air-to-fuel ratio required for complete combustion.

Storage vessel with the potential for flash emissions means any storage vessel that contains a hydrocarbon liquid with a stock tank gas-to-oil ratio equal to or greater than 0.31 cubic meters per liter and an American Petroleum Institute gravity equal to or greater than 40 degrees and an actual annual average hydrocarbon liquid throughput equal to or greater than 79,500 liters per day. Flash emissions occur when dissolved hydrocarbons in the fluid evolve from solution when the fluid pressure is reduced.

Subpart means 40 CFR part 63, subpart ZZZZ.

Surface site means any combination of one or more graded pad sites, gravel pad sites, foundations, platforms, or the immediate physical location upon which equipment is physically affixed.

Two-stroke engine means a type of engine which completes the power cycle in single crankshaft revolution by combining the intake and compression operations into one stroke and the power and exhaust operations into a second stroke. This system requires auxiliary scavenging and inherently runs lean of stoichiometric.

[69 FR 33506, June 15, 2004, as amended at 71 FR 20467, Apr. 20, 2006; 73 FR 3607, Jan. 18, 2008]

Table1ato Subpart ZZZZ of Part 63—Emission Limitations for Existing, New, and Reconstructed Spark Ignition, 4SRB Stationary RICE >500 HP Located at a Major Source of HAP Emissions

[As stated in §63.6600, you must comply with the following emission limitations for existing, new and reconstructed 4SRB stationary RICE >500 HP located at a major source of HAP emissions at 100 percent load plus or minus 10 percent]

For each...	You must meet the following emission limitations...
1. 4SRB stationary RICE	a. reduce formaldehyde emissions by 76 percent or more. If you commenced construction or reconstruction between December 19, 2002 and June 15, 2004, you may reduce formaldehyde emissions by 75 percent or more until June 15, 2007;
	or
	b. limit the concentration of formaldehyde in the stationary RICE exhaust 350 ppbvd or less at 15 percent O_2.

[73 FR 3607, Jan. 18, 2008]

Table1bto Subpart ZZZZ of Part 63—Operating Limitations for Existing, New, and Reconstructed Spark Ignition, 4SRB Stationary RICE >500 HP Located at a Major Source of HAP Emissions

[As stated in §§63.6600, 63.6630 and 63.6640, you must comply with the following operating emission limitations for existing, new and reconstructed 4SRB stationary RICE >500 HP located at a major source of HAP emissions]

For each...	You must meet the following operating limitation...
1. 4SRB stationary RICE complying with the requirement to reduce formaldehyde emissions by 76 percent or more (or by 75 percent or more, if applicable) and using NSCR; or	a. maintain your catalyst so that the pressure drop across the catalyst does not change by more than 2 inches of water at 100 percent load plus or minus 10 percent from the pressure drop across the catalyst measured during the initial performance test; and
4SRB stationary RICE complying with the requirement to limit the concentration of formaldehyde in the stationary RICE exhaust to 350 ppbvd or less at 15 percent $O_2$and using NSCR.	b. maintain the temperature of your stationary RICE exhaust so that the catalyst inlet temperature is greater than or equal to 750 °F and less than or equal to 1250 °F.
2. 4SRB stationary RICE complying with the requirement to reduce formaldehyde emissions by 76 percent or more (or by 75 percent or more, if applicable) and not using NSCR; or	Comply with any operating limitations approved by the Administrator.
4SRB stationary RICE complying with the requirement to limit the concentration of formaldehyde in the stationary RICE exhaust to 350 ppbvd or less at 15 percent $O_2$and not using NSCR.	

[73 FR 3607, Jan. 18, 2008]

Table2ato Subpart ZZZZ of Part 63—Emission Limitations for New and Reconstructed 2SLB and Compression Ignition Stationary RICE >500 HP and 4SLB Stationary RICE ≥250 HP Located at a Major Source of HAP Emissions

[As stated in §§63.6600 and 63.6601, you must comply with the following emission limitations for new and reconstructed lean burn and new and reconstructed compression ignition stationary RICE at 100 percent load plus or minus 10 percent]

For each...	You must meet the following emission limitation...
1. 2SLB stationary RICE	a. reduce CO emissions by 58 percent or more;
	or

	b. limit concentration of formaldehyde in the stationary RICE exhaust to 12 ppmvd or less at 15 percent O_2. If you commenced construction or reconstruction between December 19, 2002 and June 15, 2004, you may limit concentration of formaldehyde to 17 ppmvd or less at 15 percent O_2until June 15, 2007.
2. 4SLB stationary RICE	a. reduce CO emissions by 93 percent or more;
	or
	b. limit concentration of formaldehyde in the stationary RICE exhaust to 14 ppmvd or less at 15 percent O_2.
3. CI stationary RICE	a. reduce CO emissions by 70 percent or more;
	or
	b. limit concentration of formaldehyde in the stationary RICE exhaust to 580 ppbvd or less at 15 percent O_2.

[73 FR 3608, Jan. 18, 2008]

Table2bto Subpart ZZZZ of Part 63—Operating Limitations for New and Reconstructed 2SLB and Compression Ignition Stationary RICE >500 HP and 4SLB Burn Stationary RICE ≥250 HP Located at a Major Source of HAP Emissions

[As stated in §§63.6600, 63.6601, 63.6630, and 63.6640, you must comply with the following operating limitations for new and reconstructed lean burn and new and reconstructed compression ignition stationary]

For each...	You must meet the following operating limitation...
1. 2SLB and 4SLB stationary RICE and CI stationary RICE complying with the requirement to reduce CO emissions and using an oxidation catalyst; or 2SLB and 4SLB stationary RICE and CI stationary RICE complying with the requirement to limit the concentration of formaldehyde in the stationary RICE exhaust and using an oxidation catalyst	a. maintain your catalyst so that the pressure drop across the catalyst does not change by more than 2 inches of water at 100 percent load plus or minus 10 percent from the pressure drop across the catalyst that was measured during the initial performance test; and b. maintain the temperature of your stationary RICE exhaust so that the catalyst inlet temperature is greater than or equal to 450 °F and less than or equal to 1350 °F.

2. 2SLB and 4SLB stationary RICE and CI stationary RICE complying with the requirement to reduce CO emissions and not using an oxidation catalyst; or 2SLB and 4SLB stationary RICE and CI stationary RICE complying with the requirement to limit the concentration of formaldehyde in the stationary RICE exhaust and not using an oxidation catalyst	Comply with any operating limitations approved by the Administrator.

[73 FR 3608, Jan. 18, 2008]

Table 3 to Subpart ZZZZ of Part 63—Subsequent Performance Tests

[As stated in §§63.6615 and 63.6620, you must comply with the following subsequent performance test requirements]

For each . . .	Complying with the requirement to . . .	You must . . .
1. 2SLB and 4SLB stationary RICE and CI stationary RICE	Reduce CO emissions and not using a CEMS	Conduct subsequent performance tests semiannually.[1]
2. 4SRB stationary RICE with a brake horsepower ≥5,000	Reduce formaldehyde emissions	Conduct subsequent performance tests semiannually.[1]
3. Stationary RICE (all stationary RICE subcategories and all brake horsepower ratings)	Limit the concentration of formaldehyde in the stationary RICE exhaust	Conduct subsequent performance tests semiannually.[1]

[1]After you have demonstrated compliance for two consecutive tests, you may reduce the frequency of subsequent performance tests to annually. If the results of any subsequent annual performance test indicate the stationary RICE is not in compliance with the CO or formaldehyde emission limitation, or you deviate from any of your operating limitations, you must resume semiannual performance tests.

Table 4 to Subpart ZZZZ of Part 63—Requirements for Performance Tests

[As stated in §§63.6610, 63.6611, 63.6620, and 63.6640, you must comply with the following requirements for performance tests for stationary RICE]

For each . . .	Complying with the requirement to . . .	You must . . .	Using . . .	According to the following requirements . . .
1. 2SLB, 4SLB, and	a. Reduce CO emissions	i. Measure the O_2 at the inlet	(1) Portable CO and O_2 analyzer	(a) Using ASTM D6522–00 (2005)[a](incorporated by

CI stationary RICE		and outlet of the control device; and		reference, see §63.14). Measurements to determine O2 must be made at the same time as the measurements for CO concentration.
		ii. Measure the CO at the inlet and the outlet of the control device	(1) Portable CO and O_2analyzer	(a) Using ASTM D6522–00 (2005)[a](incorporated by reference, see §63.14) or Method 10 of 40 CFR, appendix A. The CO concentration must be at 15 percent O2, dry basis.
2. 4SRB stationary RICE	a. Reduce formaldehyde emissions	i. Select the sampling port location and the number of traverse points; and	(1) Method 1 or 1A of 40 CFR part 60, appendix A §63.7(d)(1)(i)	(a) Sampling sites must be located at the inlet and outlet of the control device.
		ii. Measure O2 at the inlet and outlet of the control device; and	(1) Method 3 or 3A or 3B of 40 CFR part 60, appendix A, or ASTM Method D6522–00 (2005).	(a) Measurements to determine O2 concentration must be made at the same time as the measurements for formaldehyde concentration.
		iii. Measure moisture content at the inlet and outlet of the control device; and	(1) Method 4 of 40 CFR part 60, appendix A, or Test Method 320 of 40 CFR part 63, appendix A, or ASTM D 6348–03	(a) Measurements to determine moisture content must be made at the same time and location as the measurements for formaldehyde concentration.
		iv. Measure formaldehyde at the inlet and the outlet of the control device	(1) Method 320 or 323 of 40 CFR part 63, appendix A; or ASTM D6348–03[b], provided in ASTM D6348–03 Annex A5 (Analyte Spiking Technique), the percent R must be	(a) Formaldehyde concentration must be at 15 percent O2, dry basis. Results of this test consist of the average of the three 1-hour or longer runs.

			greater than or equal to 70 and less than or equal to 130	
3. Stationary RICE	a. Limit the concentration of formaldehyde in the stationary RICE exhaust	i. Select the sampling port location and the number of traverse points; and	(1) Method 1 or 1A of 40 CFR part 60, appendix A §63.7(d)(1)(i)	(a) If using a control device, the sampling site must be located at the outlet of the control device.
		ii. Determine the O2 concentration of the stationary RICE exhaust at the sampling port location; and	(1) Method 3 or 3A or 3B of 40 CFR part 60, appendix A, or ASTM Method D6522–00 (2005)	(a) Measurements to determine O2 concentration must be made at the same time and location as the measurements for formaldehyde concentration.
		iii. Measure moisture content of the stationary RICE exhaust at the sampling port location; and	(1) Method 4 of 40 CFR part 60, appendix A, or Test Method 320 of 40 CFR part 63, appendix A, or ASTM D 6348–03	(a) Measurements to determine moisture content must be made at the same time and location as the measurements for formaldehyde concentration.
		iv. Measure formaldehyde at the exhaust of the stationary RICE	(1) Method 320 or 323 of 40 CFR part 63, appendix A; or ASTM D6348–03[b], provided in ASTM D6348–03 Annex A5 (Analyte Spiking Technique), the percent R must be greater than or equal to 70 and less than or equal to 130	(a) Formaldehyde concentration must be at 15 percent O2, dry basis. Results of this test consist of the average of the three 1-hour or longer runs.

[a]You may also use Methods 3A and 10 as options to ASTM–D6522–00 (2005). You may obtain a copy of ASTM–D6522–00 (2005) from at least one of the following addresses: American Society for Testing and Materials, 100 Barr Harbor Drive, West Conshohocken, PA 19428–2959, or University Microfilms International, 300 North Zeeb Road, Ann Arbor, MI 48106.

[b]You may obtain a copy of ASTM–D6348–03 from at least one of the following addresses: American Society for Testing and Materials, 100 Barr Harbor Drive, West Conshohocken, PA 19428–2959, or University Microfilms International, 300 North Zeeb Road, Ann Arbor, MI 48106.

[73 FR 3609, Jan. 18, 2008]

Table 5 to Subpart ZZZZ of Part 63—Initial Compliance With Emission Limitations and Operating Limitations

[As stated in §§63.6625 and 63.6630, you must initially comply with the emission and operating limitations as required by the following]

For each . . .	Complying with the requirement to . . .	You have demonstrated initial compliance if . . .
1. 2SLB and 4SLB stationary RICE and CI stationary RICE	a. Reduce CO emissions and using oxidation catalyst, and using a CPMS	i. the average reduction of emissions of CO determined from the initial performance test achieves the required CO percent reduction; and
		ii. You have installed a CPMS to continuously monitor catalyst inlet temperature according to the requirements in §63.6625(b); and
		iii. You have recorded the catalyst pressure drop and catalyst inlet temperature during the initial performance test.
2. 2SLB and 4SLB stationary RICE and CI stationary RICE	a. Reduce CO emissions and not using oxidation catalyst	i. The average reduction of emissions of CO determined from the initial performance test achieves the required CO percent reduction; and
		ii. You have installed a CPMS to continuously monitor operating parameters approved by the Administrator (if any) according to the requirements in §63.6625(b); and
		iii. You have recorded the approved operating parameters (if any) during the initial performance test.
3. 2SLB and 4SLB stationary RICE and CI stationary RICE	a. Reduce CO emissions, and using a CEMS	i. You have installed a CEMS to continuously monitor CO and either O_2or CO_2at both the inlet and outlet of the oxidation catalyst according to the requirements in §63.6625(a); and
		ii. You have conducted a performance evaluation of your CEMS using PS 3 and 4A of 40 CFR part 60, appendix B; and

		iii. The average reduction of CO calculated using §63.6620 equals or exceeds the required percent reduction. The initial test comprises the first 4-hour period after successful validation of the CEMS. Compliance is based on the average percent reduction achieved during the 4-hour period.
4. 4SRB stationary RICE	a. Reduce formaldehyde emissions and using NSCR	i. The average reduction of emissions of formaldehyde determined from the initial performance test is equal to or greater than the required formaldehyde percent reduction; and
		ii. You have installed a CPMS to continuously monitor catalyst inlet temperature according to the requirements in §63.6625(b); and
		iii. You have recorded the catalyst pressure drop and catalyst inlet temperature during the initial performance test.
5. 4SRB stationary RICE	a. Reduce formaldehyde emissions and not using NSCR	i. The average reduction of emissions of formaldehyde determined from the initial performance test is equal to or greater than the required formaldehyde percent reduction; and
		ii. You have installed a CPMS to continuously monitor operating parameters approved by the Administrator (if any) according to the requirements in §63.6625(b); and
		iii. You have recorded the approved operating parameters (if any) during the initial performance test.
6. Stationary RICE	a. Limit the concentration of formaldehyde in the stationary RICE exhaust and using oxidation catalyst or NSCR	i. The average formaldehyde concentration, corrected to 15 percent O_2, dry basis, from the three test runs is less than or equal to the formaldehyde emission limitation; and
		ii. You have installed a CPMS to continuously monitor catalyst inlet temperature according to the requirements in §63.6625(b); and
		iii. You have recorded the catalyst pressure drop and catalyst inlet temperature during the initial performance test.
7. Stationary RICE	a. Limit the concentration of formaldehyde in the	i. The average formaldehyde concentration, corrected to 15 percent O_2, dry basis, from the

	stationary RICE exhaust and not using oxidation catalyst or NSCR	three test runs is less than or equal to the formaldehyde emission limitation; and
		ii. You have installed a CPMS to continuously monitor operating parameters approved by the Administrator (if any) according to the requirements in §63.6625(b); and
		iii. You have recorded the approved operating parameters (if any) during the initial performance test.

Table 6 to Subpart ZZZZ of Part 63—Continuous Compliance With Emission Limitations and Operating Limitations

[As stated in §63.6640, you must continuously comply with the emissions and operating limitations as required by the following]

For each . . .	Complying with the requirement to . . .	You must demonstrate continuous compliance by . . .
1. 2SLB and 4SLB stationary RICE and CI stationary RICE	a. Reduce CO emissions and using an oxidation catalyst, and using a CPMS	i. Conducting semiannual performance tests for CO to demonstrate that the required CO percent reduction is achieved[1]; and
		ii. Collecting the catalyst inlet temperature data according to §63.6625(b); and
		iii. Reducing these data to 4-hour rolling averages; and
		iv. Maintaining the 4-hour rolling averages within the operating limitations for the catalyst inlet temperature; and
		v. Measuring the pressure drop across the catalyst once per month and demonstrating that the pressure drop across the catalyst is within the operating limitation established during the performance test.
2. 2SLB and 4SLB stationary RICE and CI stationary RICE	a. Reduce CO emissions and not using an oxidation catalyst, and using a CPMS	i. Conducting semiannual performance tests for CO to demonstrate that the required CO percent reduction is achieved[1]; and

		ii. Collecting the approved operating parameter (if any) data according to §63.6625(b); and
		iii. Reducing these data to 4-hour rolling averages; and
		iv. Maintaining the 4-hour rolling averages within the operating limitations for the operating parameters established during the performance test.
3. 2SLB and 4SLB stationary RICE and CI stationary RICE	a. Reduce CO emissions and using a CEMS	i. Collecting the monitoring data according to §63.6625(a), reducing the measurements to 1-hour averages, calculating the percent reduction of CO emissions according to §63.6620; and
		ii. Demonstrating that the catalyst achieves the required percent reduction of CO emissions over the 4-hour averaging period; and
		iii. Conducting an annual RATA of your CEMS using PS 3 and 4A of 40 CFR part 60, appendix B, as well as daily and periodic data quality checks in accordance with 40 CFR part 60, appendix F, procedure 1.
4. 4SRB stationary RICE	a. Reduce formaldehyde emissions and using NSCR	i. Collecting the catalyst inlet temperature data according to §63.6625(b); and
		ii. Reducing these data to 4-hour rolling averages; and
		iii. Maintaining the 4-hour rolling averages within the operating limitations for the catalyst inlet temperature; and
		iv. Measuring the pressure drop across the catalyst once per month and demonstrating that the pressure drop across the catalyst is within the operating limitation established during the performance test.
5. 4SRB stationary RICE	a. Reduce formaldehyde emissions and not using NSCR	i. Collecting the approved operating parameter (if any) data according to §63.6625(b); and

		ii. reducing these data to 4-hour rolling averages;
		iii. Maintaining the 4-hour rolling averages within the operating limitations for the operating parameters established during the performance test.
6. 4SRB stationary RICE with a brake horsepower ≥5,000	Reduce formaldehyde emissions	Conducting semiannual performance tests for formaldehyde to demonstrate that the required formaldehyde percent reduction is achieved[1].
7. Stationary RICE	Limit the concentration of formaldehyde in the stationary RICE exhaust and using oxidation catalyst or NSCR	i. Conducting semiannual performance tests for formaldehyde to demonstrate that your emissions remain at or below the formaldehyde concentration limit[1]; and
		ii. Collecting the catalyst inlet temperature data according to §63.6625(b); and
		iii. Reducing these data to 4-hour rolling averages; and
		iv. Maintaining the 4-hour rolling averages within the operating limitations for the catalyst inlet temperature; and
		v. Measuring the pressure drop across the catalyst once per month and demonstrating that the pressure drop across the catalyst is within the operating limitation established during the performance test.
8. Stationary RICE	Limit the concentration of formaldehyde in the stationary RICE exhaust and not using oxidation catalyst or NSCR	i. Conducting semiannual performance tests for formaldehyde to demonstrate that your emissions remain at or below the formaldehyde concentration limit[1]; and
		ii. Collecting the approved operating parameter (if any) data according to §63.6625(b); and
		ii. Reducing these data to 4-hour rolling averages; and
		iii. Maintaining the 4-hour rolling averages within the operating limitations for the

		operating parameters established during the performance test.

[1]After you have demonstrated compliance for two consecutive tests, you may reduce the frequency of subsequent performance tests to annually. If the results of any subsequent annual performance test indicate the stationary RICE is not in compliance with the CO or formaldehyde emission limitation, or you deviate from any of your operating limitations, you must resume semiannual performance tests.

Table 7 to Subpart ZZZZ of Part 63—Requirements for Reports

[As stated in §63.6650, you must comply with the following requirements for reports]

You must submit a(n)	The report must contain . . .	You must submit the report . . .
1. Compliance report	a. If there are no deviations from any emission limitations or operating limitations that apply to you, a statement that there were no deviations from the emission limitations or operating limitations during the reporting period. If there were no periods during which the CMS, including CEMS and CPMS, was out-of-control, as specified in §63.8(c)(7), a statement that there were not periods during which the CMS was out-of-control during the reporting period; or	i. Semiannually according to the requirements in §63.6650(b).
	b. If you had a deviation from any emission limitation or operating limitation during the reporting period, the information in §63.6650(d). If there were periods during which the CMS, including CEMS and CPMS, was out-of-control, as specified in §63.8(c)(7), the information in §63.6650(e); or	i. Semiannually according to the requirements in §63.6650(b).
	c. If you had a startup, shutdown or malfunction during the reporting period, the information in §63.10(d)(5)(i)	i. Semiannually according to the requirements in §63.6650(b).
2. An immediate startup, shutdown, and malfunction report if actions addressing the startup, shutdown, or malfunction were inconsistent with your	a. Actions taken for the event; and	i. By fax or telephone within 2 working days after starting actions inconsistent with the plan.

startup, shutdown, or malfunction plan during the reporting period		
	b. The information in §63.10(d)(5)(ii).	i. By letter within 7 working days after the end of the event unless you have made alternative arrangements with the permitting authorities. (§63.10(d)(5)(ii))
3. Report	a. The fuel flow rate of each fuel and the heating values that were used in your calculations, and you must demonstrate that the percentage of heat input provided by landfill gas or digester gas, is equivalent to 10 percent or more of the gross heat input on an annual basis; and	i. Annually, according to the requirements in §63.6650.
	b. The operating limits provided in your federally enforceable permit, and any deviations from these limits; and	i. See item 3.a.i.
	c. Any problems or errors suspected with the meters	i. See item 3.a.i.

Table 8 to Subpart ZZZZ of Part 63—Applicability of General Provisions to Subpart ZZZZ

[As stated in §63.6665, you must comply with the following applicable general provisions]

General provisions citation	Subject of citation	Applies to subpart	Explanation
§63.1	General applicability of the General Provisions	Yes	
§63.2	Definitions	Yes	Additional terms defined in §63.6675.
§63.3	Units and abbreviations	Yes	
§63.4	Prohibited activities and circumvention	Yes	

§63.5	Construction and reconstruction	Yes	
§63.6(a)	Applicability	Yes	
§63.6(b)(1)–(4)	Compliance dates for new and reconstructed sources	Yes	
§63.6(b)(5)	Notification	Yes	
§63.6(b)(6)	[Reserved]		
§63.6(b)(7)	Compliance dates for new and reconstructed area sources that become major sources	Yes	
§63.6(c)(1)–(2)	Compliance dates for existing sources	Yes	
§63.6(c)(3)–(4)	[Reserved]		
§36.6(c)(5)	Compliance dates for existing area sources that become major sources	Yes	
§63.6(d)	[Reserved]		
§63.6(e)(1)	Operation and maintenance	Yes	
§63.6(e)(2)	[Reserved]		
§63.6(e)(3)	Startup, shutdown, and malfunction plan	Yes	
§63.6(f)(1)	Applicability of standards except during startup shutdown malfunction (SSM)	Yes	
§63.6(f)(2)	Methods for determining compliance	Yes	
§63.6(f)(3)	Finding of compliance	Yes	
§63.6(g)(1)–(3)	Use of alternate standard	Yes	
§63.6(h)	Opacity and visible emission standards	No	Subpart ZZZZ does not contain opacity or visible emission standards.
§63.6(i)	Compliance extension procedures and criteria	Yes	

§63.6(j)	Presidential compliance exemption	Yes	
§63.7(a)(1)–(2)	Performance test dates	Yes	Subpart ZZZZ contains performance test dates at §§63.6610 and 63.6611.
§63.7(a)(3)	CAA section 114 authority	Yes	
§63.7(b)(1)	Notification of performance test	Yes	
§63.7(b)(2)	Notification of rescheduling	Yes	
§63.7(c)	Quality assurance/test plan	Yes	
§63.7(d)	Testing facilities	Yes	
§63.7(e)(1)	Conditions for conducting performance tests	Yes	
§63.7(e)(2)	Conduct of performance tests and reduction of data	Yes	Subpart ZZZZ specifies test methods at §63.6620.
§63.7(e)(3)	Test run duration	Yes	
§63.7(e)(4)	Administrator may require other testing under section 114 of the CAA	Yes	
§63.7(f)	Alternative test method provisions	Yes	
§63.7(g)	Performance test data analysis, recordkeeping, and reporting	Yes	
§63.7(h)	Waiver of tests	Yes	
§63.8(a)(1)	Applicability of monitoring requirements	Yes	Subpart ZZZZ contains specific requirements for monitoring at §63.6625.
§63.8(a)(2)	Performance specifications	Yes	
§63.8(a)(3)	[Reserved]		
§63.8(a)(4)	Monitoring for control devices	No	
§63.8(b)(1)	Monitoring	Yes	
§63.8(b)(2)–(3)	Multiple effluents and multiple monitoring systems	Yes	

§63.8(c)(1)	Monitoring system operation and maintenance	Yes	
§63.8(c)(1)(i)	Routine and predictable SSM	Yes	
§63.8(c)(1)(ii)	SSM not in Startup Shutdown Malfunction Plan	Yes	
§63.8(c)(1)(iii)	Compliance with operation and maintenance requirements	Yes	
§63.8(c)(2)–(3)	Monitoring system installation	Yes	
§63.8(c)(4)	Continuous monitoring system (CMS) requirements	Yes	Except that subpart ZZZZ does not require Continuous Opacity Monitoring System (COMS).
§63.8(c)(5)	COMS minimum procedures	No	Subpart ZZZZ does not require COMS.
§63.8(c)(6)–(8)	CMS requirements	Yes	Except that subpart ZZZZ does not require COMS.
§63.8(d)	CMS quality control	Yes	
§63.8(e)	CMS performance evaluation	Yes	Except for §63.8(e)(5)(ii), which applies to COMS.
§63.8(f)(1)–(5)	Alternative monitoring method	Yes	
§63.8(f)(6)	Alternative to relative accuracy test	Yes	
§63.8(g)	Data reduction	Yes	Except that provisions for COMS are not applicable. Averaging periods for demonstrating compliance are specified at §§63.6635 and 63.6640.
§63.9(a)	Applicability and State delegation of notification requirements	Yes	
§63.9(b)(1)–(5)	Initial notifications	Yes	Except that §63.9(b)(3) is reserved.
§63.9(c)	Request for compliance extension	Yes	
§63.9(d)	Notification of special compliance requirements for	Yes	

	new sources		
§63.9(e)	Notification of performance test	Yes	
§63.9(f)	Notification of visible emission (VE)/opacity test	No	Subpart ZZZZ does not contain opacity or VE standards.
§63.9(g)(1)	Notification of performance evaluation	Yes	
§63.9(g)(2)	Notification of use of COMS data	No	Subpart ZZZZ does not contain opacity or VE standards.
§63.9(g)(3)	Notification that criterion for alternative to RATA is exceeded	Yes	If alternative is in use.
§63.9(h)(1)–(6)	Notification of compliance status	Yes	Except that notifications for sources using a CEMS are due 30 days after completion of performance evaluations. §63.9(h)(4) is reserved.
§63.9(i)	Adjustment of submittal deadlines	Yes	
§63.9(j)	Change in previous information	Yes	
§63.10(a)	Administrative provisions for record keeping/reporting	Yes	
§63.10(b)(1)	Record retention	Yes	
§63.10(b)(2)(i)–(v)	Records related to SSM	Yes	
§63.10(b)(2)(vi)–(xi)	Records	Yes	
§63.10(b)(2)(xii)	Record when under waiver	Yes	
§63.10(b)(2)(xiii)	Records when using alternative to RATA	Yes	For CO standard if using RATA alternative.
§63.10(b)(2)(xiv)	Records of supporting documentation	Yes	
§63.10(b)(3)	Records of applicability determination	Yes	

§63.10(c)	Additional records for sources using CEMS	Yes	Except that §63.10(c)(2)–(4) and (9) are reserved.
§63.10(d)(1)	General reporting requirements	Yes	
§63.10(d)(2)	Report of performance test results	Yes	
§63.10(d)(3)	Reporting opacity or VE observations	No	Subpart ZZZZ does not contain opacity or VE standards.
§63.10(d)(4)	Progress reports	Yes	
§63.10(d)(5)	Startup, shutdown, and malfunction reports	Yes	
§63.10(e)(1) and (2)(i)	Additional CMS reports	Yes	
§63.10(e)(2)(ii)	COMS-related report	No	Subpart ZZZZ does not require COMS.
§63.10(e)(3)	Excess emission and parameter exceedances reports	Yes	Except that §63.10(e)(3)(i)(C) is reserved.
§63.10(e)(4)	Reporting COMS data	No	Subpart ZZZZ does not require COMS.
§63.10(f)	Waiver for recordkeeping/reporting	Yes	
§63.11	Flares	No	
§63.12	State authority and delegations	Yes	
§63.13	Addresses	Yes	
§63.14	Incorporation by reference	Yes	
§63.15	Availability of information	Yes	

[73 FR 3610, Jan. 18, 2008]

Attachment B
to a Part 70 Operating Permit

40 CFR 60, Subpart IIII — Standards of Performance for Stationary Compression Ignition Internal Combustion Engines

Source Name:	Cummins Industrial Center
Source Location:	800 East Third Street, Seymour, IN 47274
County:	Jackson
SIC Code:	3519
Operation Permit No.:	T071-21065-00015
Operation Permit Issuance Date:	December 28, 2006
Significant Source Modification No.:	071-29612-00015
Significant Permit Modification No.:	071-29636-00015
Permit Reviewer:	Josiah Balogun

Subpart IIII—Standards of Performance for Stationary Compression Ignition Internal Combustion Engines

Source: 71 FR 39172, July 11, 2006, unless otherwise noted.

What This Subpart Covers

§ 60.4200 Am I subject to this subpart?

(a) The provisions of this subpart are applicable to manufacturers, owners, and operators of stationary compression ignition (CI) internal combustion engines (ICE) as specified in paragraphs (a)(1) through (3) of this section. For the purposes of this subpart, the date that construction commences is the date the engine is ordered by the owner or operator.

(1) Manufacturers of stationary CI ICE with a displacement of less than 30 liters per cylinder where the model year is:

(i) 2007 or later, for engines that are not fire pump engines,

(ii) The model year listed in table 3 to this subpart or later model year, for fire pump engines.

(2) Owners and operators of stationary CI ICE that commence construction after July 11, 2005 where the stationary CI ICE are:

(i) Manufactured after April 1, 2006 and are not fire pump engines, or

(ii) Manufactured as a certified National Fire Protection Association (NFPA) fire pump engine after July 1, 2006.

(3) Owners and operators of stationary CI ICE that modify or reconstruct their stationary CI ICE after July 11, 2005.

(b) The provisions of this subpart are not applicable to stationary CI ICE being tested at a stationary CI ICE test cell/stand.

(c) If you are an owner or operator of an area source subject to this subpart, you are exempt from the obligation to obtain a permit under 40 CFR part 70 or 40 CFR part 71, provided you are not required to obtain a permit under 40 CFR 70.3(a) or 40 CFR 71.3(a) for a reason other than your status as an area source under this subpart.

Notwithstanding the previous sentence, you must continue to comply with the provisions of this subpart applicable to area sources.

(d) Stationary CI ICE may be eligible for exemption from the requirements of this subpart as described in 40 CFR part 1068, subpart C (or the exemptions described in 40 CFR part 89, subpart J and 40 CFR part 94, subpart J, for engines that would need to be certified to standards in those parts), except that owners and operators, as well as manufacturers, may be eligible to request an exemption for national security.

Emission Standards for Manufacturers

§ 60.4201 What emission standards must I meet for non-emergency engines if I am a stationary CI internal combustion engine manufacturer?

(a) Stationary CI internal combustion engine manufacturers must certify their 2007 model year and later non-emergency stationary CI ICE with a maximum engine power less than or equal to 2,237 kilowatt (KW) (3,000 horsepower (HP)) and a displacement of less than 10 liters per cylinder to the certification emission standards for new nonroad CI engines in 40 CFR 89.112, 40 CFR 89.113, 40 CFR 1039.101, 40 CFR 1039.102, 40 CFR 1039.104, 40 CFR 1039.105, 40 CFR 1039.107, and 40 CFR 1039.115, as applicable, for all pollutants, for the same model year and maximum engine power.

(b) Stationary CI internal combustion engine manufacturers must certify their 2007 through 2010 model year non-emergency stationary CI ICE with a maximum engine power greater than 2,237 KW (3,000 HP) and a displacement of less than 10 liters per cylinder to the emission standards in table 1 to this subpart, for all pollutants, for the same maximum engine power.

(c) Stationary CI internal combustion engine manufacturers must certify their 2011 model year and later non-emergency stationary CI ICE with a maximum engine power greater than 2,237 KW (3,000 HP) and a displacement of less than 10 liters per cylinder to the certification emission standards for new nonroad CI engines in 40 CFR 1039.101, 40 CFR 1039.102, 40 CFR 1039.104, 40 CFR 1039.105, 40 CFR 1039.107, and 40 CFR 1039.115, as applicable, for all pollutants, for the same maximum engine power.

(d) Stationary CI internal combustion engine manufacturers must certify their 2007 model year and later non-emergency stationary CI ICE with a displacement of greater than or equal to 10 liters per cylinder and less than 30 liters per cylinder to the certification emission standards for new marine CI engines in 40 CFR 94.8, as applicable, for all pollutants, for the same displacement and maximum engine power.

§ 60.4202 What emission standards must I meet for emergency engines if I am a stationary CI internal combustion engine manufacturer?

(a) Stationary CI internal combustion engine manufacturers must certify their 2007 model year and later emergency stationary CI ICE with a maximum engine power less than or equal to 2,237 KW (3,000 HP) and a displacement of less than 10 liters per cylinder that are not fire pump engines to the emission standards specified in paragraphs (a)(1) through (2) of this section.

(1) For engines with a maximum engine power less than 37 KW (50 HP):

(i) The certification emission standards for new nonroad CI engines for the same model year and maximum engine power in 40 CFR 89.112 and 40 CFR 89.113 for all pollutants for model year 2007 engines, and

(ii) The certification emission standards for new nonroad CI engines in 40 CFR 1039.104, 40 CFR 1039.105, 40 CFR 1039.107, 40 CFR 1039.115, and table 2 to this subpart, for 2008 model year and later engines.

(2) For engines with a maximum engine power greater than or equal to 37 KW (50 HP), the certification emission standards for new nonroad CI engines for the same model year and maximum engine power in 40 CFR 89.112 and 40 CFR 89.113 for all pollutants beginning in model year 2007.

(b) Stationary CI internal combustion engine manufacturers must certify their 2007 model year and later emergency stationary CI ICE with a maximum engine power greater than 2,237 KW (3,000 HP) and a displacement of less than 10 liters per cylinder that are not fire pump engines to the emission standards specified in paragraphs (b)(1) through (2) of this section.

(1) For 2007 through 2010 model years, the emission standards in table 1 to this subpart, for all pollutants, for the same maximum engine power.

(2) For 2011 model year and later, the certification emission standards for new nonroad CI engines for engines of the same model year and maximum engine power in 40 CFR 89.112 and 40 CFR 89.113 for all pollutants.

(c) Stationary CI internal combustion engine manufacturers must certify their 2007 model year and later emergency stationary CI ICE with a displacement of greater than or equal to 10 liters per cylinder and less than 30 liters per cylinder that are not fire pump engines to the certification emission standards for new marine CI engines in 40 CFR 94.8, as applicable, for all pollutants, for the same displacement and maximum engine power.

(d) Beginning with the model years in table 3 to this subpart, stationary CI internal combustion engine manufacturers must certify their fire pump stationary CI ICE to the emission standards in table 4 to this subpart, for all pollutants, for the same model year and NFPA nameplate power.

§ 60.4203 How long must my engines meet the emission standards if I am a stationary CI internal combustion engine manufacturer?

Engines manufactured by stationary CI internal combustion engine manufacturers must meet the emission standards as required in §§60.4201 and 60.4202 during the useful life of the engines.

Emission Standards for Owners and Operators

§ 60.4204 What emission standards must I meet for non-emergency engines if I am an owner or operator of a stationary CI internal combustion engine?

(a) Owners and operators of pre-2007 model year non-emergency stationary CI ICE with a displacement of less than 10 liters per cylinder must comply with the emission standards in table 1 to this subpart. Owners and operators of pre-2007 model year non-emergency stationary CI ICE with a displacement of greater than or equal to 10 liters per cylinder and less than 30 liters per cylinder must comply with the emission standards in 40 CFR 94.8(a)(1).

(b) Owners and operators of 2007 model year and later non-emergency stationary CI ICE with a displacement of less than 30 liters per cylinder must comply with the emission standards for new CI engines in §60.4201 for their 2007 model year and later stationary CI ICE, as applicable.

(c) Owners and operators of non-emergency stationary CI ICE with a displacement of greater than or equal to 30 liters per cylinder must meet the requirements in paragraphs (c)(1) and (2) of this section.

(1) Reduce nitrogen oxides (NO_X) emissions by 90 percent or more, or limit the emissions of NO_Xin the stationary CI internal combustion engine exhaust to 1.6 grams per KW-hour (g/KW-hr) (1.2 grams per HP-hour (g/HP-hr)).

(2) Reduce particulate matter (PM) emissions by 60 percent or more, or limit the emissions of PM in the stationary CI internal combustion engine exhaust to 0.15 g/KW-hr (0.11 g/HP-hr).

§ 60.4205 What emission standards must I meet for emergency engines if I am an owner or operator of a stationary CI internal combustion engine?

(a) Owners and operators of pre-2007 model year emergency stationary CI ICE with a displacement of less than 10 liters per cylinder that are not fire pump engines must comply with the emission standards in table 1 to this subpart. Owners and operators of pre-2007 model year non-emergency stationary CI ICE with a displacement of greater than or equal to 10 liters per cylinder and less than 30 liters per cylinder that are not fire pump engines must comply with the emission standards in 40 CFR 94.8(a)(1).

(b) Owners and operators of 2007 model year and later emergency stationary CI ICE with a displacement of less than 30 liters per cylinder that are not fire pump engines must comply with the emission standards for new nonroad CI engines in §60.4202, for all pollutants, for the same model year and maximum engine power for their 2007 model year and later emergency stationary CI ICE.

(c) Owners and operators of fire pump engines with a displacement of less than 30 liters per cylinder must comply with the emission standards in table 4 to this subpart, for all pollutants.

(d) Owners and operators of emergency stationary CI ICE with a displacement of greater than or equal to 30 liters per cylinder must meet the requirements in paragraphs (d)(1) and (2) of this section.

(1) Reduce NO_Xemissions by 90 percent or more, or limit the emissions of NO_Xin the stationary CI internal combustion engine exhaust to 1.6 grams per KW-hour (1.2 grams per HP-hour).

(2) Reduce PM emissions by 60 percent or more, or limit the emissions of PM in the stationary CI internal combustion engine exhaust to 0.15 g/KW-hr (0.11 g/HP-hr).

§ 60.4206 How long must I meet the emission standards if I am an owner or operator of a stationary CI internal combustion engine?

Owners and operators of stationary CI ICE must operate and maintain stationary CI ICE that achieve the emission standards as required in §§60.4204 and 60.4205 according to the manufacturer's written instructions or procedures developed by the owner or operator that are approved by the engine manufacturer, over the entire life of the engine.

Fuel Requirements for Owners and Operators

§ 60.4207 What fuel requirements must I meet if I am an owner or operator of a stationary CI internal combustion engine subject to this subpart?

(a) Beginning October 1, 2007, owners and operators of stationary CI ICE subject to this subpart that use diesel fuel must use diesel fuel that meets the requirements of 40 CFR 80.510(a).

(b) Beginning October 1, 2010, owners and operators of stationary CI ICE subject to this subpart with a displacement of less than 30 liters per cylinder that use diesel fuel must use diesel fuel that meets the requirements of 40 CFR 80.510(b) for nonroad diesel fuel.

(c) Owners and operators of pre-2011 model year stationary CI ICE subject to this subpart may petition the Administrator for approval to use remaining non-compliant fuel that does not meet the fuel requirements of paragraphs (a) and (b) of this section beyond the dates required for the purpose of using up existing fuel inventories. If approved, the petition will be valid for a period of up to 6 months. If additional time is needed, the owner or operator is required to submit a new petition to the Administrator.

(d) Owners and operators of pre-2011 model year stationary CI ICE subject to this subpart that are located in areas of Alaska not accessible by the Federal Aid Highway System may petition the Administrator for approval to use any fuels mixed with used lubricating oil that do not meet the fuel requirements of paragraphs (a) and (b) of this section. Owners and operators must demonstrate in their petition to the Administrator that there is no other place to use the lubricating oil. If approved, the petition will be valid for a period of up to 6 months. If additional time is needed, the owner or operator is required to submit a new petition to the Administrator.

(e) Stationary CI ICE that have a national security exemption under §60.4200(d) are also exempt from the fuel requirements in this section.

Other Requirements for Owners and Operators

§ 60.4208 What is the deadline for importing or installing stationary CI ICE produced in the previous model year?

(a) After December 31, 2008, owners and operators may not install stationary CI ICE (excluding fire pump engines) that do not meet the applicable requirements for 2007 model year engines.

(b) After December 31, 2009, owners and operators may not install stationary CI ICE with a maximum engine power of less than 19 KW (25 HP) (excluding fire pump engines) that do not meet the applicable requirements for 2008 model year engines.

(c) After December 31, 2014, owners and operators may not install non-emergency stationary CI ICE with a maximum engine power of greater than or equal to 19 KW (25 HP) and less than 56 KW (75 HP) that do not meet the applicable requirements for 2013 model year non-emergency engines.

(d) After December 31, 2013, owners and operators may not install non-emergency stationary CI ICE with a maximum engine power of greater than or equal to 56 KW (75 HP) and less than 130 KW (175 HP) that do not meet the applicable requirements for 2012 model year non-emergency engines.

(e) After December 31, 2012, owners and operators may not install non-emergency stationary CI ICE with a maximum engine power of greater than or equal to 130 KW (175 HP), including those above 560 KW (750 HP), that do not meet the applicable requirements for 2011 model year non-emergency engines.

(f) After December 31, 2016, owners and operators may not install non-emergency stationary CI ICE with a maximum engine power of greater than or equal to 560 KW (750 HP) that do not meet the applicable requirements for 2015 model year non-emergency engines.

(g) In addition to the requirements specified in §§60.4201, 60.4202, 60.4204, and 60.4205, it is prohibited to import stationary CI ICE with a displacement of less than 30 liters per cylinder that do not meet the applicable requirements specified in paragraphs (a) through (f) of this section after the dates specified in paragraphs (a) through (f) of this section.

(h) The requirements of this section do not apply to owners or operators of stationary CI ICE that have been modified, reconstructed, and do not apply to engines that were removed from one existing location and reinstalled at a new location.

§ 60.4209 What are the monitoring requirements if I am an owner or operator of a stationary CI internal combustion engine?

If you are an owner or operator, you must meet the monitoring requirements of this section. In addition, you must also meet the monitoring requirements specified in §60.4211.

(a) If you are an owner or operator of an emergency stationary CI internal combustion engine, you must install a non-resettable hour meter prior to startup of the engine.

(b) If you are an owner or operator of a stationary CI internal combustion engine equipped with a diesel particulate filter to comply with the emission standards in §60.4204, the diesel particulate filter must be installed with a backpressure monitor that notifies the owner or operator when the high backpressure limit of the engine is approached.

Compliance Requirements

§ 60.4210 What are my compliance requirements if I am a stationary CI internal combustion engine manufacturer?

(a) Stationary CI internal combustion engine manufacturers must certify their stationary CI ICE with a displacement of less than 10 liters per cylinder to the emission standards specified in §60.4201(a) through (c) and §60.4202(a), (b) and (d) using the certification procedures required in 40 CFR part 89, subpart B, or 40 CFR part 1039, subpart C, as applicable, and must test their engines as specified in those parts. For the purposes of this subpart, engines certified to the standards in table 1 to this subpart shall be subject to the same requirements as engines certified to the standards in 40 CFR part 89. For the purposes of this subpart, engines certified to the standards in table 4 to this subpart shall be subject to the same requirements as engines certified to the standards in 40 CFR part 89, except that engines with NFPA nameplate power of less than 37 KW (50 HP) certified to model year 2011 or later standards shall be subject to the same requirements as engines certified to the standards in 40 CFR part 1039.

(b) Stationary CI internal combustion engine manufacturers must certify their stationary CI ICE with a displacement of greater than or equal to 10 liters per cylinder and less than 30 liters per cylinder to the emission standards specified in §60.4201(d) and §60.4202(c) using the certification procedures required in 40 CFR part 94 subpart C, and must test their engines as specified in 40 CFR part 94.

(c) Stationary CI internal combustion engine manufacturers must meet the requirements of 40 CFR 1039.120, 40 CFR 1039.125, 40 CFR 1039.130, 40 CFR 1039.135, and 40 CFR part 1068 for engines that are certified to the emission standards in 40 CFR part 1039. Stationary CI internal combustion engine manufacturers must meet the corresponding provisions of 40 CFR part 89 or 40 CFR part 94 for engines that would be covered by that part if they were nonroad (including marine) engines. Labels on such engines must refer to stationary engines, rather than or in addition to nonroad or marine engines, as appropriate. Stationary CI internal combustion engine manufacturers must label their engines according to paragraphs (c)(1) through (3) of this section.

(1) Stationary CI internal combustion engines manufactured from January 1, 2006 to March 31, 2006 (January 1, 2006 to June 30, 2006 for fire pump engines), other than those that are part of certified engine families under the nonroad CI engine regulations, must be labeled according to 40 CFR 1039.20.

(2) Stationary CI internal combustion engines manufactured from April 1, 2006 to December 31, 2006 (or, for fire pump engines, July 1, 2006 to December 31 of the year preceding the year listed in table 3 to this subpart) must be labeled according to paragraphs (c)(2)(i) through (iii) of this section:

(i) Stationary CI internal combustion engines that are part of certified engine families under the nonroad regulations must meet the labeling requirements for nonroad CI engines, but do not have to meet the labeling requirements in 40 CFR 1039.20.

(ii) Stationary CI internal combustion engines that meet Tier 1 requirements (or requirements for fire pumps) under this subpart, but do not meet the requirements applicable to nonroad CI engines must be labeled according to 40 CFR 1039.20. The engine manufacturer may add language to the label clarifying that the engine meets Tier 1 requirements (or requirements for fire pumps) of this subpart.

(iii) Stationary CI internal combustion engines manufactured after April 1, 2006 that do not meet Tier 1 requirements of this subpart, or fire pumps engines manufactured after July 1, 2006 that do not meet the requirements for fire pumps under this subpart, may not be used in the U.S. If any such engines are manufactured in the U.S. after April 1, 2006 (July 1, 2006 for fire pump engines), they must be exported or must be brought into compliance with the appropriate standards prior to initial operation. The export provisions of 40 CFR 1068.230 would apply to engines for export and the manufacturers must label such engines according to 40 CFR 1068.230.

(3) Stationary CI internal combustion engines manufactured after January 1, 2007 (for fire pump engines, after January 1 of the year listed in table 3 to this subpart, as applicable) must be labeled according to paragraphs (c)(3)(i) through (iii) of this section.

(i) Stationary CI internal combustion engines that meet the requirements of this subpart and the corresponding requirements for nonroad (including marine) engines of the same model year and HP must be labeled according to the provisions in part 89, 94 or 1039, as appropriate.

(ii) Stationary CI internal combustion engines that meet the requirements of this subpart, but are not certified to the standards applicable to nonroad (including marine) engines of the same model year and HP must be labeled according to the provisions in part 89, 94 or 1039, as appropriate, but the words “stationary” must be included instead of “nonroad” or “marine” on the label. In addition, such engines must be labeled according to 40 CFR 1039.20.

(iii) Stationary CI internal combustion engines that do not meet the requirements of this subpart must be labeled according to 40 CFR 1068.230 and must be exported under the provisions of 40 CFR 1068.230.

(d) An engine manufacturer certifying an engine family or families to standards under this subpart that are identical to standards applicable under parts 89, 94, or 1039 for that model year may certify any such family that contains both nonroad (including marine) and stationary engines as a single engine family and/or may include any such family containing stationary engines in the averaging, banking and trading provisions applicable for such engines under those parts.

(e) Manufacturers of engine families discussed in paragraph (d) of this section may meet the labeling requirements referred to in paragraph (c) of this section for stationary CI ICE by either adding a separate label containing the information required in paragraph (c) of this section or by adding the words “and stationary” after the word “nonroad” or “marine,” as appropriate, to the label.

(f) Starting with the model years shown in table 5 to this subpart, stationary CI internal combustion engine manufacturers must add a permanent label stating that the engine is for stationary emergency use only to each new emergency stationary CI internal combustion engine greater than or equal to 19 KW (25 HP) that meets all the emission standards for emergency engines in §60.4202 but does not meet all the emission standards for non-emergency engines in §60.4201. The label must be added according to the labeling requirements specified in 40 CFR 1039.135(b). Engine manufacturers must specify in the owner's manual that operation of emergency engines is limited to emergency operations and required maintenance and testing.

(g) Manufacturers of fire pump engines may use the test cycle in table 6 to this subpart for testing fire pump engines and may test at the NFPA certified nameplate HP, provided that the engine is labeled as “Fire Pump Applications Only”.

(h) Engine manufacturers, including importers, may introduce into commerce uncertified engines or engines certified to earlier standards that were manufactured before the new or changed standards took effect until inventories are depleted, as long as such engines are part of normal inventory. For example, if the engine manufacturers' normal industry practice is to keep on hand a one-month supply of engines based on its projected sales, and a new tier of standards starts to apply for the 2009 model year, the engine manufacturer may manufacture engines based on the normal inventory requirements late in the 2008 model year, and sell those engines for installation. The engine manufacturer may not circumvent the provisions of §§60.4201 or 60.4202 by stockpiling engines that are built before new or changed standards take effect. Stockpiling of such engines beyond normal industry practice is a violation of this subpart.

(i) The replacement engine provisions of 40 CFR 89.1003(b)(7), 40 CFR 94.1103(b)(3), 40 CFR 94.1103(b)(4) and 40 CFR 1068.240 are applicable to stationary CI engines replacing existing equipment that is less than 15 years old.

§ 60.4211 What are my compliance requirements if I am an owner or operator of a stationary CI internal combustion engine?

(a) If you are an owner or operator and must comply with the emission standards specified in this subpart, you must operate and maintain the stationary CI internal combustion engine and control device according to the manufacturer's written instructions or procedures developed by the owner or operator that are approved by the engine manufacturer. In addition, owners and operators may only change those settings that are permitted by the manufacturer. You must also meet the requirements of 40 CFR parts 89, 94 and/or 1068, as they apply to you.

(b) If you are an owner or operator of a pre-2007 model year stationary CI internal combustion engine and must comply with the emission standards specified in §§60.4204(a) or 60.4205(a), or if you are an owner or operator of a CI fire pump engine that is manufactured prior to the model years in table 3 to this subpart and must comply with the emission standards specified in §60.4205(c), you must demonstrate compliance according to one of the methods specified in paragraphs (b)(1) through (5) of this section.

(1) Purchasing an engine certified according to 40 CFR part 89 or 40 CFR part 94, as applicable, for the same model year and maximum engine power. The engine must be installed and configured according to the manufacturer's specifications.

(2) Keeping records of performance test results for each pollutant for a test conducted on a similar engine. The test must have been conducted using the same methods specified in this subpart and these methods must have been followed correctly.

(3) Keeping records of engine manufacturer data indicating compliance with the standards.

(4) Keeping records of control device vendor data indicating compliance with the standards.

(5) Conducting an initial performance test to demonstrate compliance with the emission standards according to the requirements specified in §60.4212, as applicable.

(c) If you are an owner or operator of a 2007 model year and later stationary CI internal combustion engine and must comply with the emission standards specified in §60.4204(b) or §60.4205(b), or if you are an owner or operator of a CI fire pump engine that is manufactured during or after the model year that applies to your fire pump engine power rating in table 3 to this subpart and must comply with the emission standards specified in §60.4205(c), you must comply by purchasing an engine certified to the emission standards in §60.4204(b), or §60.4205(b) or (c), as applicable, for the same model year and maximum (or in the case of fire pumps, NFPA nameplate) engine power. The engine must be installed and configured according to the manufacturer's specifications.

(d) If you are an owner or operator and must comply with the emission standards specified in §60.4204(c) or §60.4205(d), you must demonstrate compliance according to the requirements specified in paragraphs (d)(1) through (3) of this section.

(1) Conducting an initial performance test to demonstrate initial compliance with the emission standards as specified in §60.4213.

(2) Establishing operating parameters to be monitored continuously to ensure the stationary internal combustion engine continues to meet the emission standards. The owner or operator must petition the Administrator for approval of operating parameters to be monitored continuously. The petition must include the information described in paragraphs (d)(2)(i) through (v) of this section.

(i) Identification of the specific parameters you propose to monitor continuously;

(ii) A discussion of the relationship between these parameters and $NO_X$and PM emissions, identifying how the emissions of these pollutants change with changes in these parameters, and how limitations on these parameters will serve to limit $NO_X$and PM emissions;

(iii) A discussion of how you will establish the upper and/or lower values for these parameters which will establish the limits on these parameters in the operating limitations;

(iv) A discussion identifying the methods and the instruments you will use to monitor these parameters, as well as the relative accuracy and precision of these methods and instruments; and

(v) A discussion identifying the frequency and methods for recalibrating the instruments you will use for monitoring these parameters.

(3) For non-emergency engines with a displacement of greater than or equal to 30 liters per cylinder, conducting annual performance tests to demonstrate continuous compliance with the emission standards as specified in §60.4213.

(e) Emergency stationary ICE may be operated for the purpose of maintenance checks and readiness testing, provided that the tests are recommended by Federal, State, or local government, the manufacturer, the vendor, or the insurance company associated with the engine. Maintenance checks and readiness testing of such units is limited to 100 hours per year. There is no time limit on the use of emergency stationary ICE in emergency situations. Anyone may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that Federal, State, or local standards require maintenance and testing of emergency ICE beyond 100 hours per year. For owners and operators of emergency engines meeting standards under §60.4205 but not §60.4204, any operation other than emergency operation, and maintenance and testing as permitted in this section, is prohibited.

Testing Requirements for Owners and Operators

§ 60.4212 What test methods and other procedures must I use if I am an owner or operator of a stationary CI internal combustion engine with a displacement of less than 30 liters per cylinder?

Owners and operators of stationary CI ICE with a displacement of less than 30 liters per cylinder who conduct performance tests pursuant to this subpart must do so according to paragraphs (a) through (d) of this section.

(a) The performance test must be conducted according to the in-use testing procedures in 40 CFR part 1039, subpart F.

(b) Exhaust emissions from stationary CI ICE that are complying with the emission standards for new CI engines in 40 CFR part 1039 must not exceed the not-to-exceed (NTE) standards for the same model year and maximum engine power as required in 40 CFR 1039.101(e) and 40 CFR 1039.102(g)(1), except as specified in 40 CFR 1039.104(d). This requirement starts when NTE requirements take effect for nonroad diesel engines under 40 CFR part 1039.

(c) Exhaust emissions from stationary CI ICE that are complying with the emission standards for new CI engines in 40 CFR 89.112 or 40 CFR 94.8, as applicable, must not exceed the NTE numerical requirements, rounded to the same number of decimal places as the applicable standard in 40 CFR 89.112 or 40 CFR 94.8, as applicable, determined from the following equation:

$$\text{NTE requirement for each pollutant} = (1.25) \times (\text{STD}) \qquad \text{(Eq. 1)}$$

Where:

STD = The standard specified for that pollutant in 40 CFR 89.112 or 40 CFR 94.8, as applicable.

Alternatively, stationary CI ICE that are complying with the emission standards for new CI engines in 40 CFR 89.112 or 40 CFR 94.8 may follow the testing procedures specified in §60.4213 of this subpart, as appropriate.

(d) Exhaust emissions from stationary CI ICE that are complying with the emission standards for pre-2007 model year engines in §60.4204(a), §60.4205(a), or §60.4205(c) must not exceed the NTE numerical requirements, rounded to the same number of decimal places as the applicable standard in §60.4204(a), §60.4205(a), or §60.4205(c), determined from the equation in paragraph (c) of this section.

Where:

STD = The standard specified for that pollutant in §60.4204(a), §60.4205(a), or §60.4205(c).

Alternatively, stationary CI ICE that are complying with the emission standards for pre-2007 model year engines in §60.4204(a), §60.4205(a), or §60.4205(c) may follow the testing procedures specified in §60.4213, as appropriate.

§ 60.4213 What test methods and other procedures must I use if I am an owner or operator of a stationary CI internal combustion engine with a displacement of greater than or equal to 30 liters per cylinder?

Owners and operators of stationary CI ICE with a displacement of greater than or equal to 30 liters per cylinder must conduct performance tests according to paragraphs (a) through (d) of this section.

(a) Each performance test must be conducted according to the requirements in §60.8 and under the specific conditions that this subpart specifies in table 7. The test must be conducted within 10 percent of 100 percent peak (or the highest achievable) load.

(b) You may not conduct performance tests during periods of startup, shutdown, or malfunction, as specified in §60.8(c).

(c) You must conduct three separate test runs for each performance test required in this section, as specified in §60.8(f). Each test run must last at least 1 hour.

(d) To determine compliance with the percent reduction requirement, you must follow the requirements as specified in paragraphs (d)(1) through (3) of this section.

(1) You must use Equation 2 of this section to determine compliance with the percent reduction requirement:

$$\frac{C_i - C_o}{C_i} \times 100 = R \qquad \text{(Eq. 2)}$$

Where:

C_i= concentration of NO_Xor PM at the control device inlet,

C_o= concentration of NO_Xor PM at the control device outlet, and

R = percent reduction of NO_Xor PM emissions.

(2) You must normalize the NO_Xor PM concentrations at the inlet and outlet of the control device to a dry basis and to 15 percent oxygen (O_2) using Equation 3 of this section, or an equivalent percent carbon dioxide (CO_2) using the procedures described in paragraph (d)(3) of this section.

$$C_{adj} = C_d \frac{5.9}{20.9 - \% O_2} \qquad \text{(Eq. 3)}$$

Where:

C_{adj}= Calculated NO_Xor PM concentration adjusted to 15 percent O_2.

C_d= Measured concentration of NO_Xor PM, uncorrected.

5.9 = 20.9 percent O_2−15 percent O_2, the defined O_2correction value, percent.

$\%O_2$= Measured O_2concentration, dry basis, percent.

(3) If pollutant concentrations are to be corrected to 15 percent $O_2$and CO_2concentration is measured in lieu of O_2concentration measurement, a CO_2correction factor is needed. Calculate the CO_2correction factor as described in paragraphs (d)(3)(i) through (iii) of this section.

(i) Calculate the fuel-specific $F_o$value for the fuel burned during the test using values obtained from Method 19, Section 5.2, and the following equation:

$$F_o = \frac{0.209 F_d}{F_c} \qquad \text{(Eq. 4)}$$

Where:

F_o= Fuel factor based on the ratio of O_2volume to the ultimate CO_2volume produced by the fuel at zero percent excess air.

0.209 = Fraction of air that is O_2, percent/100.

F_d= Ratio of the volume of dry effluent gas to the gross calorific value of the fuel from Method 19, dsm^3 /J (dscf/10^6 Btu).

F_c= Ratio of the volume of CO_2produced to the gross calorific value of the fuel from Method 19, dsm^3 /J (dscf/10^6 Btu).

(ii) Calculate the CO_2correction factor for correcting measurement data to 15 percent O_2, as follows:

$$X_{CO_2} = \frac{5.9}{F_o} \qquad \text{(Eq. 5)}$$

Where:

X_{CO2}= CO_2correction factor, percent.

5.9 = 20.9 percent O_2−15 percent O_2, the defined O_2correction value, percent.

(iii) Calculate the $NO_X$and PM gas concentrations adjusted to 15 percent O_2using CO_2as follows:

$$C_{adj} = C_d \frac{X_{CO_2}}{\%CO_2} \qquad \text{(Eq. 6)}$$

Where:

C_{adj}= Calculated NO_Xor PM concentration adjusted to 15 percent O_2.

C_d= Measured concentration of NO_Xor PM, uncorrected.

$\%CO_2$= Measured CO_2concentration, dry basis, percent.

(e) To determine compliance with the NO_X mass per unit output emission limitation, convert the concentration of NO_X in the engine exhaust using Equation 7 of this section:

$$ER = \frac{C_d \times 1.912 \times 10^{-3} \times Q \times T}{\text{KW-hour}} \qquad \text{(Eq. 7)}$$

Where:

ER = Emission rate in grams per KW-hour.

C_d = Measured NO_X concentration in ppm.

1.912×10^{-3} = Conversion constant for ppm NO_X to grams per standard cubic meter at 25 degrees Celsius.

Q = Stack gas volumetric flow rate, in standard cubic meter per hour.

T = Time of test run, in hours.

KW-hour = Brake work of the engine, in KW-hour.

(f) To determine compliance with the PM mass per unit output emission limitation, convert the concentration of PM in the engine exhaust using Equation 8 of this section:

$$ER = \frac{C_{adj} \times Q \times T}{\text{KW-hour}} \qquad \text{(Eq. 8)}$$

Where:

ER = Emission rate in grams per KW-hour.

C_{adj} = Calculated PM concentration in grams per standard cubic meter.

Q = Stack gas volumetric flow rate, in standard cubic meter per hour.

T = Time of test run, in hours.

KW-hour = Energy output of the engine, in KW.

Notification, Reports, and Records for Owners and Operators

§ 60.4214 What are my notification, reporting, and recordkeeping requirements if I am an owner or operator of a stationary CI internal combustion engine?

(a) Owners and operators of non-emergency stationary CI ICE that are greater than 2,237 KW (3,000 HP), or have a displacement of greater than or equal to 10 liters per cylinder, or are pre-2007 model year engines that are greater than 130 KW (175 HP) and not certified, must meet the requirements of paragraphs (a)(1) and (2) of this section.

(1) Submit an initial notification as required in §60.7(a)(1). The notification must include the information in paragraphs (a)(1)(i) through (v) of this section.

(i) Name and address of the owner or operator;

(ii) The address of the affected source;

(iii) Engine information including make, model, engine family, serial number, model year, maximum engine power, and engine displacement;

(iv) Emission control equipment; and

(v) Fuel used.

(2) Keep records of the information in paragraphs (a)(2)(i) through (iv) of this section.

(i) All notifications submitted to comply with this subpart and all documentation supporting any notification.

(ii) Maintenance conducted on the engine.

(iii) If the stationary CI internal combustion is a certified engine, documentation from the manufacturer that the engine is certified to meet the emission standards.

(iv) If the stationary CI internal combustion is not a certified engine, documentation that the engine meets the emission standards.

(b) If the stationary CI internal combustion engine is an emergency stationary internal combustion engine, the owner or operator is not required to submit an initial notification. Starting with the model years in table 5 to this subpart, if the emergency engine does not meet the standards applicable to non-emergency engines in the applicable model year, the owner or operator must keep records of the operation of the engine in emergency and non-emergency service that are recorded through the non-resettable hour meter. The owner must record the time of operation of the engine and the reason the engine was in operation during that time.

(c) If the stationary CI internal combustion engine is equipped with a diesel particulate filter, the owner or operator must keep records of any corrective action taken after the backpressure monitor has notified the owner or operator that the high backpressure limit of the engine is approached.

Special Requirements

§ 60.4215 What requirements must I meet for engines used in Guam, American Samoa, or the Commonwealth of the Northern Mariana Islands?

(a) Stationary CI ICE that are used in Guam, American Samoa, or the Commonwealth of the Northern Mariana Islands are required to meet the applicable emission standards in §60.4205. Non-emergency stationary CI ICE with a displacement of greater than or equal to 30 liters per cylinder, must meet the applicable emission standards in §60.4204(c).

(b) Stationary CI ICE that are used in Guam, American Samoa, or the Commonwealth of the Northern Mariana Islands are not required to meet the fuel requirements in §60.4207.

§ 60.4216 What requirements must I meet for engines used in Alaska?

(a) Prior to December 1, 2010, owners and operators of stationary CI engines located in areas of Alaska not accessible by the Federal Aid Highway System should refer to 40 CFR part 69 to determine the diesel fuel requirements applicable to such engines.

(b) The Governor of Alaska may submit for EPA approval, by no later than January 11, 2008, an alternative plan for implementing the requirements of 40 CFR part 60, subpart IIII, for public-sector electrical utilities located in rural areas of Alaska not accessible by the Federal Aid Highway System. This alternative plan must be based on the requirements of section 111 of the Clean Air Act including any increased risks to human health and the environment and must also be based on the unique circumstances related to remote power generation, climatic conditions, and serious economic impacts resulting from implementation of 40 CFR part 60, subpart IIII. If EPA approves by rulemaking process an alternative plan, the provisions as approved by EPA under that plan shall apply to the diesel engines used in new stationary internal combustion engines subject to this paragraph.

§ 60.4217 What emission standards must I meet if I am an owner or operator of a stationary internal combustion engine using special fuels?

(a) Owners and operators of stationary CI ICE that do not use diesel fuel, or who have been given authority by the Administrator under §60.4207(d) of this subpart to use fuels that do not meet the fuel requirements of paragraphs (a) and (b) of §60.4207, may petition the Administrator for approval of alternative emission standards, if they can demonstrate that they use a fuel that is not the fuel on which the manufacturer of the engine certified the engine and that the engine cannot meet the applicable standards required in §60.4202 or §60.4203 using such fuels.

(b) [Reserved]

General Provisions

§ 60.4218 What parts of the General Provisions apply to me?

Table 8 to this subpart shows which parts of the General Provisions in §§60.1 through 60.19 apply to you.

Definitions

§ 60.4219 What definitions apply to this subpart?

As used in this subpart, all terms not defined herein shall have the meaning given them in the CAA and in subpart A of this part.

Combustion turbine means all equipment, including but not limited to the turbine, the fuel, air, lubrication and exhaust gas systems, control systems (except emissions control equipment), and any ancillary components and sub-components comprising any simple cycle combustion turbine, any regenerative/recuperative cycle combustion turbine, the combustion turbine portion of any cogeneration cycle combustion system, or the combustion turbine portion of any combined cycle steam/electric generating system.

Compression ignition means relating to a type of stationary internal combustion engine that is not a spark ignition engine.

Diesel fuel means any liquid obtained from the distillation of petroleum with a boiling point of approximately 150 to 360 degrees Celsius. One commonly used form is number 2 distillate oil.

Diesel particulate filter means an emission control technology that reduces PM emissions by trapping the particles in a flow filter substrate and periodically removes the collected particles by either physical action or by oxidizing (burning off) the particles in a process called regeneration.

Emergency stationary internal combustion engine means any stationary internal combustion engine whose operation is limited to emergency situations and required testing and maintenance. Examples include stationary ICE used to produce power for critical networks or equipment (including power supplied to portions of a facility) when electric power from the local utility (or the normal power source, if the facility runs on its own power production) is interrupted, or stationary ICE used to pump water in the case of fire or flood, etc. Stationary CI ICE used to supply power to an

electric grid or that supply power as part of a financial arrangement with another entity are not considered to be emergency engines.

Engine manufacturer means the manufacturer of the engine. See the definition of “manufacturer” in this section.

Fire pump engine means an emergency stationary internal combustion engine certified to NFPA requirements that is used to provide power to pump water for fire suppression or protection.

Manufacturer has the meaning given in section 216(1) of the Act. In general, this term includes any person who manufactures a stationary engine for sale in the United States or otherwise introduces a new stationary engine into commerce in the United States. This includes importers who import stationary engines for sale or resale.

Maximum engine power means maximum engine power as defined in 40 CFR 1039.801.

Model year means either:

(1) The calendar year in which the engine was originally produced, or

(2) The annual new model production period of the engine manufacturer if it is different than the calendar year. This must include January 1 of the calendar year for which the model year is named. It may not begin before January 2 of the previous calendar year and it must end by December 31 of the named calendar year. For an engine that is converted to a stationary engine after being placed into service as a nonroad or other non-stationary engine, model year means the calendar year or new model production period in which the engine was originally produced.

Other internal combustion engine means any internal combustion engine, except combustion turbines, which is not a reciprocating internal combustion engine or rotary internal combustion engine.

Reciprocating internal combustion engine means any internal combustion engine which uses reciprocating motion to convert heat energy into mechanical work.

Rotary internal combustion engine means any internal combustion engine which uses rotary motion to convert heat energy into mechanical work.

Spark ignition means relating to a gasoline, natural gas, or liquefied petroleum gas fueled engine or any other type of engine with a spark plug (or other sparking device) and with operating characteristics significantly similar to the theoretical Otto combustion cycle. Spark ignition engines usually use a throttle to regulate intake air flow to control power during normal operation. Dual-fuel engines in which a liquid fuel (typically diesel fuel) is used for CI and gaseous fuel (typically natural gas) is used as the primary fuel at an annual average ratio of less than 2 parts diesel fuel to 100 parts total fuel on an energy equivalent basis are spark ignition engines.

Stationary internal combustion engine means any internal combustion engine, except combustion turbines, that converts heat energy into mechanical work and is not mobile. Stationary ICE differ from mobile ICE in that a stationary internal combustion engine is not a nonroad engine as defined at 40 CFR 1068.30 (excluding paragraph (2)(ii) of that definition), and is not used to propel a motor vehicle or a vehicle used solely for competition. Stationary ICE include reciprocating ICE, rotary ICE, and other ICE, except combustion turbines.

Subpart means 40 CFR part 60, subpart IIII.

Useful life means the period during which the engine is designed to properly function in terms of reliability and fuel consumption, without being remanufactured, specified as a number of hours of operation or calendar years, whichever comes first. The values for useful life for stationary CI ICE with a displacement of less than 10 liters per cylinder are given in 40 CFR 1039.101(g). The values for useful life for stationary CI ICE with a displacement of greater than or equal to 10 liters per cylinder and less than 30 liters per cylinder are given in 40 CFR 94.9(a).

Table 1 to Subpart IIII of Part 60—Emission Standards for Stationary Pre-

2007 Model Year Engines With a Displacement of <10 Liters per Cylinder and 2007–2010 Model Year Engines >2,237 KW (3,000 HP) and With a Displacement of <10 Liters per Cylinder

[As stated in §§60.4201(b), 60.4202(b), 60.4204(a), and 60.4205(a), you must comply with the following emission standards]

Maximum engine power	Emission standards for stationary pre-2007 model year engines with a displacement of <10 liters per cylinder and 2007–2010 model year engines >2,237 KW (3,000 HP) and with a displacement of <10 liters per cylinder in g/KW-hr (g/HP-hr)				
	NMHC + NO_X	HC	NO_X	CO	PM
KW<8 (HP<11)	10.5 (7.8)			8.0 (6.0)	1.0 (0.75)
8≤KW<19 (11≤HP<25)	9.5 (7.1)			6.6 (4.9)	0.80 (0.60)
19≤KW<37 (25≤HP<50)	9.5 (7.1)			5.5 (4.1)	0.80 (0.60)
37≤KW<56 (50≤HP<75)			9.2 (6.9)		
56≤KW<75 (75≤HP<100)			9.2 (6.9)		
75≤KW<130 (100≤HP<175)			9.2 (6.9)		
130≤KW<225 (175≤HP<300)		1.3 (1.0)	9.2 (6.9)	11.4 (8.5)	0.54 (0.40)
225≤KW<450 (300≤HP<600)		1.3 (1.0)	9.2 (6.9)	11.4 (8.5)	0.54 (0.40)
450≤KW≤560 (600≤HP≤750)		1.3 (1.0)	9.2 (6.9)	11.4 (8.5)	0.54 (0.40)
KW>560 (HP>750)		1.3 (1.0)	9.2 (6.9)	11.4 (8.5)	0.54 (0.40)

Table 2 to Subpart IIII of Part 60—Emission Standards for 2008 Model Year and Later Emergency Stationary CI ICE <37 KW (50 HP) With a Displacement of <10 Liters per Cylinder

[As stated in §60.4202(a)(1), you must comply with the following emission standards]

Engine power	Emission standards for 2008 model year and later emergency stationary

	CI ICE <37 KW (50 HP) with a displacement of <10 liters per cylinder in g/KW-hr (g/HP-hr)			
	Model year(s)	**NO_X+ NMHC**	**CO**	**PM**
KW<8 (HP<11)	2008+	7.5 (5.6)	8.0 (6.0)	0.40 (0.30)
8≤KW<19 (11≤HP<25)	2008+	7.5 (5.6)	6.6 (4.9)	0.40 (0.30)
19≤KW<37 (25≤HP<50)	2008+	7.5 (5.6)	5.5 (4.1)	0.30 (0.22)

Table 3 to Subpart IIII of Part 60—Certification Requirements for Stationary Fire Pump Engines

[As stated in §60.4202(d), you must certify new stationary fire pump engines beginning with the following model years:]

Engine power	Starting model year engine manufacturers must certify new stationary fire pump engines according to §60.4202(d)
KW<75 (HP<100)	2011
75≤KW<130 (100≤HP<175)	2010
130≤KW≤560 (175≤HP≤750)	2009
KW>560 (HP>750)	2008

Table 4 to Subpart IIII of Part 60—Emission Standards for Stationary Fire Pump Engines

[As stated in §§60.4202(d) and 60.4205(c), you must comply with the following emission standards for stationary fire pump engines]

Maximum engine power	Model year(s)	NMHC + NO_X	CO	PM
KW<8 (HP<11)	2010 and earlier	10.5 (7.8)	8.0 (6.0)	1.0 (0.75)
	2011+	7.5 (5.6)		0.40 (0.30)
8≤KW<19 (11≤HP<25)	2010 and earlier	9.5 (7.1)	6.6 (4.9)	0.80 (0.60)
	2011+	7.5 (5.6)		0.40 (0.30)
19≤KW<37 (25≤HP<50)	2010 and earlier	9.5 (7.1)	5.5 (4.1)	0.80 (0.60)

	2011+	7.5 (5.6)		0.30 (0.22)
37≤KW<56 (50≤HP<75)	2010 and earlier	10.5 (7.8)	5.0 (3.7)	0.80 (0.60)
	2011+[1]	4.7 (3.5)		0.40 (0.30)
56≤KW<75 (75≤HP<100)	2010 and earlier	10.5 (7.8)	5.0 (3.7)	0.80 (0.60)
	2011+[1]	4.7 (3.5)		0.40 (0.30)
75≤KW<130 (100≤HP<175)	2009 and earlier	10.5 (7.8)	5.0 (3.7)	0.80 (0.60)
	2010+[2]	4.0 (3.0)		0.30 (0.22)
130≤KW<225 (175≤HP<300)	2008 and earlier	10.5 (7.8)	3.5 (2.6)	0.54 (0.40)
	2009+[3]	4.0 (3.0)		0.20 (0.15)
225≤KW<450 (300≤HP<600)	2008 and earlier	10.5 (7.8)	3.5 (2.6)	0.54 (0.40)
	2009+[3]	4.0 (3.0)		0.20 (0.15)
450≤KW≤560 (600≤HP≤750)	2008 and earlier	10.5 (7.8)	3.5 (2.6)	0.54 (0.40)
	2009+	4.0 (3.0)		0.20 (0.15)
KW>560 (HP>750)	2007 and earlier	10.5 (7.8)	3.5 (2.6)	0.54 (0.40)
	2008+	6.4 (4.8)		0.20 (0.15)

[1]For model years 2011–2013, manufacturers, owners and operators of fire pump stationary CI ICE in this engine power category with a rated speed of greater than 2,650 revolutions per minute (rpm) may comply with the emission limitations for 2010 model year engines.

[2]For model years 2010–2012, manufacturers, owners and operators of fire pump stationary CI ICE in this engine power category with a rated speed of greater than 2,650 rpm may comply with the emission limitations for 2009 model year engines.

[3]In model years 2009–2011, manufacturers of fire pump stationary CI ICE in this engine power category with a rated speed of greater than 2,650 rpm may comply with the emission limitations for 2008 model year engines.

Table 5 to Subpart IIII of Part 60—Labeling and Recordkeeping Requirements for New Stationary Emergency Engines

[You must comply with the labeling requirements in §60.4210(f) and the recordkeeping requirements in §60.4214(b) for new emergency stationary CI ICE beginning in the following model years:]

Engine power	Starting model year
19≤KW<56 (25≤HP<75)	2013
56≤KW<130 (75≤HP<175)	2012

KW≥130 (HP≥175)	2011

Table 6 to Subpart IIII of Part 60—Optional 3-Mode Test Cycle for Stationary Fire Pump Engines

[As stated in §60.4210(g), manufacturers of fire pump engines may use the following test cycle for testing fire pump engines:]

Mode No.	Engine speed[1]	Torque (percent)[2]	Weighting factors
1	Rated	100	0.30
2	Rated	75	0.50
3	Rated	50	0.20

[1]Engine speed: ±2 percent of point.

[2]Torque: NFPA certified nameplate HP for 100 percent point. All points should be ±2 percent of engine percent load value.

Table 7 to Subpart IIII of Part 60—Requirements for Performance Tests for Stationary CI ICE With a Displacement of ≥30 Liters per Cylinder

[As stated in §60.4213, you must comply with the following requirements for performance tests for stationary CI ICE with a displacement of ≥30 liters per cylinder:]

For each	Complying with the requirement to	You must	Using	According to the following requirements
1. Stationary CI internal combustion engine with a displacement of ≥30 liters per cylinder	a. Reduce NO_X emissions by 90 percent or more	i. Select the sampling port location and the number of traverse points;	(1) Method 1 or 1A of 40 CFR part 60, appendix A	(a) Sampling sites must be located at the inlet and outlet of the control device.
		ii. Measure O_2 at the inlet and outlet of the control device;	(2) Method 3, 3A, or 3B of 40 CFR part 60, appendix A	(b) Measurements to determine O_2 concentration must be made at the same time as the measurements for NO_X concentration.

		iii. If necessary, measure moisture content at the inlet and outlet of the control device; and,	(3) Method 4 of 40 CFR part 60, appendix A, Method 320 of 40 CFR part 63, appendix A, or ASTM D 6348–03 (incorporated by reference, see §60.17)	(c) Measurements to determine moisture content must be made at the same time as the measurements for NO_X concentration.
		iv. Measure NO_X at the inlet and outlet of the control device	(4) Method 7E of 40 CFR part 60, appendix A, Method 320 of 40 CFR part 63, appendix A, or ASTM D 6348–03 (incorporated by reference, see §60.17)	(d) NO_X concentration must be at 15 percent O_2, dry basis. Results of this test consist of the average of the three 1-hour or longer runs.
	b. Limit the concentration of NO_X in the stationary CI internal combustion engine exhaust.	i. Select the sampling port location and the number of traverse points;	(1) Method 1 or 1A of 40 CFR part 60, appendix A	(a) If using a control device, the sampling site must be located at the outlet of the control device.
		ii. Determine the O_2 concentration of the stationary internal combustion engine exhaust at the sampling port location; and,	(2) Method 3, 3A, or 3B of 40 CFR part 60, appendix A	(b) Measurements to determine O_2 concentration must be made at the same time as the measurement for NO_X concentration.
		iii. If necessary, measure moisture content of the stationary internal combustion engine exhaust at the sampling port location; and,	(3) Method 4 of 40 CFR part 60, appendix A, Method 320 of 40 CFR part 63, appendix A, or ASTM D 6348–03 (incorporated by reference, see	(c) Measurements to determine moisture content must be made at the same time as the measurement for NO_X concentration.

			§60.17)	
		iv. Measure NO_X at the exhaust of the stationary internal combustion engine	(4) Method 7E of 40 CFR part 60, appendix A, Method 320 of 40 CFR part 63, appendix A, or ASTM D 6348–03 (incorporated by reference, see §60.17)	(d) NO_X concentration must be at 15 percent O_2, dry basis. Results of this test consist of the average of the three 1-hour or longer runs.
	c. Reduce PM emissions by 60 percent or more	i. Select the sampling port location and the number of traverse points;	(1) Method 1 or 1A of 40 CFR part 60, appendix A	(a) Sampling sites must be located at the inlet and outlet of the control device.
		ii. Measure O_2 at the inlet and outlet of the control device;	(2) Method 3, 3A, or 3B of 40 CFR part 60, appendix A	(b) Measurements to determine O_2 concentration must be made at the same time as the measurements for PM concentration.
		iii. If necessary, measure moisture content at the inlet and outlet of the control device; and	(3) Method 4 of 40 CFR part 60, appendix A	(c) Measurements to determine and moisture content must be made at the same time as the measurements for PM concentration.
		iv. Measure PM at the inlet and outlet of the control device	(4) Method 5 of 40 CFR part 60, appendix A	(d) PM concentration must be at 15 percent O_2, dry basis. Results of this test consist of the average of the three 1-hour or longer runs.
	d. Limit the concentration of PM in the stationary CI internal combustion	i. Select the sampling port location and the number of traverse points;	(1) Method 1 or 1A of 40 CFR part 60, appendix A	(a) If using a control device, the sampling site must be located at the outlet of the control device.

	engine exhaust			
		ii. Determine the O_2concentration of the stationary internal combustion engine exhaust at the sampling port location; and	(2) Method 3, 3A, or 3B of 40 CFR part 60, appendix A	(b) Measurements to determine O_2concentration must be made at the same time as the measurements for PM concentration.
		iii. If necessary, measure moisture content of the stationary internal combustion engine exhaust at the sampling port location; and	(3) Method 4 of 40 CFR part 60, appendix A	(c) Measurements to determine moisture content must be made at the same time as the measurements for PM concentration.
		iv. Measure PM at the exhaust of the stationary internal combustion engine	(4) Method 5 of 40 CFR part 60, appendix A	(d) PM concentration must be at 15 percent O_2, dry basis. Results of this test consist of the average of the three 1-hour or longer runs.

Table 8 to Subpart IIII of Part 60—Applicability of General Provisions to Subpart IIII

[As stated in §60.4218, you must comply with the following applicable General Provisions:]

General Provisions citation	Subject of citation	Applies to subpart	Explanation
§60.1	General applicability of the General Provisions	Yes	
§60.2	Definitions	Yes	Additional terms defined in §60.4219.
§60.3	Units and abbreviations	Yes	
§60.4	Address	Yes	
§60.5	Determination of construction or modification	Yes	

§60.6	Review of plans	Yes	
§60.7	Notification and Recordkeeping	Yes	Except that §60.7 only applies as specified in §60.4214(a).
§60.8	Performance tests	Yes	Except that §60.8 only applies to stationary CI ICE with a displacement of (≥30 liters per cylinder and engines that are not certified.
§60.9	Availability of information	Yes	
§60.10	State Authority	Yes	
§60.11	Compliance with standards and maintenance requirements	No	Requirements are specified in subpart IIII.
§60.12	Circumvention	Yes	
§60.13	Monitoring requirements	Yes	Except that §60.13 only applies to stationary CI ICE with a displacement of (≥30 liters per cylinder.
§60.14	Modification	Yes	
§60.15	Reconstruction	Yes	
§60.16	Priority list	Yes	
§60.17	Incorporations by reference	Yes	
§60.18	General control device requirements	No	
§60.19	General notification and reporting requirements	Yes	

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Indiana Department of Environmental Management
Office of Air Quality

Technical Support Document (TSD) for a Part 70 Significant Source and Significant Permit Modification

Source Description and Location

Source Name:	Cummins Industrial Center
Source Location:	800 East Third Street, Seymour, IN 47274
County:	Jackson
SIC Code:	3519
Operation Permit No.:	T071-21065-00015
Operation Permit Issuance Date:	December 28, 2006
Significant Source Modification No.:	071-29612-00015
Significant Permit Modification No.:	071-29636-00015
Permit Reviewer:	Josiah Balogun

Existing Approvals

The source was issued Part 70 Operating Permit No. 071-21065-00015 on December 28, 2006. The source has since received the following approvals:

Permit Type	Permit Number	Issuance Date
Minor Source Modification	071-27683-00015	April 30, 2009
Minor Permit Modification	071-27806-00015	June 24, 2009
Significant Source Modification	071-27821-00015	August 11, 2009
Significant Permit Modification	071-27977-00015	August 28, 2009
Review Request	071-28868-00015	January 20, 2010

County Attainment Status

The source is located in Jackson County.

Pollutant	Designation
SO_2	Better than national standards.
CO	Unclassifiable or attainment effective November 15, 1990.
O_3	Attainment effective December 29, 2005, for the 8-hour ozone standard.[1]
PM_{10}	Unclassifiable effective November 15, 1990.
NO_2	Cannot be classified or better than national standards.
Pb	Not designated.

[1]Unclassifiable or attainment effective October 18, 2000, for the 1-hour ozone standard which was revoked effective June 15, 2005. Unclassifiable or attainment effective April 5, 2005, for PM2.5.

(a) Ozone Standards
Volatile organic compounds (VOC) and Nitrogen Oxides (NOx) are regulated under the Clean Air Act (CAA) for the purposes of attaining and maintaining the National Ambient Air Quality Standards (NAAQS) for ozone. Therefore, VOC and NOx emissions are considered when evaluating the rule applicability relating to ozone. Jackson County has been designated as attainment or unclassifiable for ozone. Therefore, VOC and NOx emissions were reviewed pursuant to the requirements for Prevention of Significant

Deterioration (PSD), 326 IAC 2-2.

(b) $PM_{2.5}$
Jackson County has been classified as attainment for $PM_{2.5}$. On May 8, 2008 U.S. EPA promulgated the requirements for Prevention of Significant Deterioration (PSD) for $PM_{2.5}$ emissions. These rules became effective on July 15, 2008. Indiana has three years from the publication of these rules to revise its PSD rules, 326 IAC 2-2, to include those requirements. The May 8, 2008 rule revisions require IDEM to regulate PM10 emissions as a surrogate for $PM_{2.5}$ emissions until 326 IAC 2-2 is revised.

(c) Other Criteria Pollutants
Jackson County has been classified as attainment or unclassifiable in Indiana for all other criteria pollutants. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

Fugitive Emissions

Since this type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-2, 326 IAC 2-3, or 326 IAC 2-7, and there is no applicable New Source Performance Standard that was in effect on August 7, 1980, fugitive emissions are not counted toward the determination of PSD, Emission Offset, and Part 70 Permit applicability..

Source Status

The table below summarizes the potential to emit of the entire source, prior to the proposed modification, after consideration of all enforceable limits established in the effective permits:

Pollutant	**Emissions** (ton/yr)
PM	128.07
PM_{10}	128.07
SO_2	155.46
VOC	<250
CO	<250
NO_X	<250
Single HAPs	<10
Total HAPs	<25

(a) This existing source is not a major stationary source, under PSD (326 IAC 2-2), because emissions of all regulated pollutant are less than 250 tons per year, and it is not one of the twenty-eight (28) listed source categories, as specified in 326 IAC 2-2-1(gg)(1).

(b) These emissions are based upon T071-27977-00015, issued on August 28, 2009.

(c) This existing source is not a major source of HAPs, as defined in 40 CFR 63.2, because HAPs emissions are limited to less than ten (10) tons per year for any single HAP and less than twenty-five (25) tons per year of a combination of HAPs. Therefore, this source is an area source under Section 112 of the Clean Air Act (CAA).

Description of Proposed Modification

The Office of Air Quality (OAQ) has reviewed a modification application, submitted by Cummins Industrial Center on August 31, 2010, relating to the addition of eight new test cells, modifying an existing emission unit, the addition of 22 boilers and an emergency generator. The following is a list of the proposed emission units:

(a) One (1) engineering engine test cell, identified as HHP6, approved for construction in

2011, may be powered by diesel, biodiesel JP8/JetA, propane natural gas blend or natural gas, with maximum output of 7032 hp and exhausting to stack HHP6.1.

(b) One (1) engineering engine test cell, identified as HHP8, approved for construction in 2011, may be powered by diesel, biodiesel, JP8/JetA, propane natural gas blend or natural gas, with maximum output of 7032 hp and exhausting to stack HHP8.1;

(c) One (1) engineering engine test cell, identified as HHP9, approved for construction in 2011, may be powered by diesel, biodiesel, JP8/JetA, propane natural gas blend or natural gas, with maximum output of 7032 hp and exhausting to stack HHP9.1;

(d) One (1) production engine test cell, identified as Production 1, approved for construction in 2011, may be powered by diesel, biodiesel with maximum output of 7032 hp and exhausting to stack Production 1.1.

(e) One (1) production engine test cell, identified as Production 2, approved for construction in 2011, may be powered by diesel, biodiesel with maximum output of 7032 hp and exhausting to stack Production 2.1.

(f) One (1) production engine test cell, identified as Production 3, approved for construction in 2011, may be powered by diesel, biodiesel with maximum output of 7032 hp and exhausting to stack Production 3.1.

(g) One (1) engineering engine test cell, identified as HHP7, approved for construction in 2011, may be powered by natural gas, biodiesel, JP8/JetA, propane natural gas blend or diesel fuel, with maximum output of 5685 hp and exhausting to stack HHP7.1.

(h) One (1) engineering engine test cell, identified as HHP10, approved for construction in 2011, may be powered by natural gas, biodiesel, JP8/JetA, propane natural gas blend or diesel fuel, with maximum output of 5685 hp, and exhausting to stack HHP10.1.

(i) Twenty-two (22) natural gas-fired boilers, identified as EU03C-EU03X, approved for construction in 2011, with EU003C-EU03V each having a maximum capacity of 2.0 MMBtu per hour and EU03W-EU03X, each having a maximum capacity of 4.2 MMBtu per hour, and exhausting to stacks B3-28, respectively.

Insignificant Unit

(a) One (1) emergency diesel powered generator with maximum capacity of 1490 horse power. [Under 40 CFR 60, Subpart IIII, the emergency generator is considered a new affected source.][Under 40 CFR 63, Subpart ZZZZ, the emergency generator is considered a new affected source.]

Enforcement Issues

There are no pending enforcement actions related to this modification.

Emission Calculations

See Appendix A of this Technical Support Document for detailed emission calculations.

Permit Level Determination – Part 70

Pursuant to 326 IAC 2-1.1-1(16), Potential to Emit is defined as “the maximum capacity of a stationary source or emission unit to emit any air pollutant under its physical and operational design. Any physical or operational limitation on the capacity of a source to emit an air pollutant, including air pollution control equipment and restrictions on hours of operation or type or amount

of material combusted, stored, or processed shall be treated as part of its design if the limitation is enforceable by the U. S. EPA, IDEM, or the appropriate local air pollution control agency."

The following table is used to determine the appropriate permit level under 326 IAC 2-7-10.5. This table reflects the PTE before controls. Control equipment is not considered federally enforceable until it has been required in a federally enforceable permit.

PTE Before Controls of the Modification	
Pollutant	**Potential To Emit** (ton/yr)
PM	265.06
PM_{10}	266.15
SO_2	248.45
VOC	930.86
CO	1464.65
NO_X	3649.74

This source modification is subject to 326 IAC 2-7-10.5(f)(4) because the potential to emit of PM, PM10, SO2, VOC, CO and NOx are greater than twenty five tons per year. Additionally, the modification will be incorporated into the Part 70 Operating Permit through a significant permit modification issued pursuant to 326 IAC 2-7-12(d) because the modification involves a case-by-case determination of an emission limitation.

Permit Level Determination – PSD

The table below summarizes the potential to emit, reflecting all limits, of the emission units. Any control equipment is considered federally enforceable only after issuance of this Part 70 source and permit modification, and only to the extent that the effect of the control equipment is made practically enforceable in the permit.

	Potential to Emit (tons/year)					
Process/Emission Unit	**PM**	**PM10**	**SO_2**	**VOC**	**CO**	**NO_X**
Total before modification	233.47	232.91	< 249.1	231.76	199.02	236.20
2011 Modification						
New Test Cells and Production Lines	248	248	247.2	230	230	218
Twenty-Two (22) Boilers	0.4	1.6	0.1	1.2	17.8	21.2
Emergency Generator	0.26	0.15	1.15	0.26	2.05	8.94
Total for 2011 Modification	248.66	249.75	248.45	231.46	249.85	248.14
Total after Modification	**482.13**	**482.66**	**< 497.55**	**463.22**	**448.87**	**484.34**
Major Source Threshold	250	250	250	250	250	250

This modification to an existing minor stationary source is not major because the emissions from the modification are limited to less than the major source thresholds. Therefore, pursuant to 326 IAC 2-2, the PSD requirements do not apply.

After this modification the limited PTE from PM, PM10, SO2, VOC, CO and NOx for the entire source will be greater than 250 tons per year. Therefore, this source will be a Major source under PSD after this Modification.

Federal Rule Applicability Determination

(a) Pursuant to 40 CFR 64.2, Compliance Assurance Monitoring (CAM) is applicable to new or modified emission units that involve a pollutant-specific emission unit and meet the following criteria:

(1) has a potential to emit before controls equal to or greater than the Part 70 major source threshold for the pollutant involved;

(2) is subject to an emission limitation or standard for that pollutant; and

(3) uses a control device, as defined in 40 CFR 64.1, to comply with that emission limitation or standard.

None of the units being added in this modification use a control device, therefore, the requirements of 40 CFR 64.1 do not apply.

(b) The new boilers (EU03C-EU03X) are not subject to the requirements of the New Source Performance Standard for Small Industrial-Commercial-Institutional Steam Generating Units 40 CFR 60.4c, Subpart Dc, because each has a maximum heat input capacity of less than 10 MMBtu per hour.

(c) The diesel powered emergency generator is subject to the New Source Performance Standards for Stationary Compression Ignition Internal Combustion Engines (40 CFR 60.4200, Subpart IIII), which is incorporated by reference as 326 IAC 12 because the emergency generator is constructed after July 11, 2005 and manufactured after April 1, 2006 and is not fire pump engines. The unit subject to this rule include the following:

(1) One (1) emergency diesel powered generator with maximum capacity of 1490 horse power. [Under 40 CFR 60, Subpart IIII, the emergency generator is considered a new affected source.][Under 40 CFR 63, Subpart ZZZZ, the emergency generator is considered a new affected source.]

The emission unit is subject the following applicable portions of the NSPS Subpart IIII.

(1) 40 CFR 60.4200
(2) 40 CFR 60.4205
(3) 40 CFR 60.4206
(4) 40 CFR 60.4207
(5) 40 CFR 60.4208
(6) 40 CFR 60.4209
(7) 40 CFR 60.4211
(8) 40 CFR 60.4212
(9) 40 CFR 60.4214
(10) 40 CFR 60.4218

(d) The requirements of the National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE) (40 CFR 63, Subpart ZZZZ), (326 IAC 20-82) are included in this permit for the emergency generator at this source because the unit is a new emergency stationary RICE, (manufactured after June 12, 2006) and are located at an area source of HAP emissions.

The emission unit subject to the following portions of Subpart ZZZZ:

(1) One (1) emergency diesel powered generator with maximum capacity of 1490 horse power. [Under 40 CFR 60, Subpart IIII, the emergency generator is considered a new affected source.][Under 40 CFR 63, Subpart ZZZZ, the emergency generator is considered a new affected source.]

The emission unit is subject the following applicable portions of the NESHAP for new stationary RICE at an area source of HAP:

(1) 40 CFR 63.6580
(2) 40 CFR 63.6585
(3) 40 CFR 63.6590(a)(2)(iii) and (c)(1)
(4) 40 CFR 63.6595(a)(6)
(5) 40 CFR 63.6665
(6) 40 CFR 63.6670
(7) 40 CFR 63.6675

Pursuant to 40 CFR 63.6665, the new emergency diesel powered generator does not have to meet the requirements of 40 CRF 63, Subpart A (General Provisions), since it is considered a new stationary RICE located at an area source of HAP emissions.

State Rule Applicability Determination

The following state rules are applicable to the source due to the modification:

326 IAC 2-2 (Prevention of Significant Deterioration(PSD))
This modification to an existing minor stationary source is not major because the emissions from this modification are limited to less than the major source thresholds. Therefore, pursuant to 326 IAC 2-2, the PSD requirements do not apply.

The total NOx emissions from HHP6 – HHP10 and Production 1 -3 shall not exceed 218 tons per twelve (12) consecutive month period with compliance determined at the end of each month.

(a) The NOx emissions shall be calculated by the following equation:

NOx emissions = (Diesel fuel burned by HHP6 – HHP10 x (Ef1n of NOx/gal of diesel fuel) + (Diesel fuel burned by Production 1 - 3) x (Ef2n, of NOx/gal of diesel fuel)

+

(Natural gas burned by HHP6 – HHP10 x (Ef3n of NOx/ft^3 of natural gas)

+

(Biodiesel fuel burned by HHP6 – HHP10) x (Ef4n of NOx/gal of biodiesel fuel) +(Biodiesel fuel burned by Production 1 – 3) x Ef6n of NOx/gal of biodiesel fuel)

+

(Propane fuel burned by HHP6 – HHP10) x (Ef5n of NOx/gal of Propane fuel)

+

(JP8 and Jet A fuel burned by HHP6, HHP7, HHP8, HHP9, HHP10, x (Ef7n of NOx/gal of J8 or Jet A)

Where:

(1) Ef1n = Emission Factor in pounds of NOx per gallon of diesel fuel for HHP6 – HHP10

(2) Ef2n = Emission Factor in pounds of NOx per gallon of diesel fuel for Production 1 – 3

(3) Ef3n = Emission Factor in pounds of NOx per cubic foot of natural gas for HHP6 – HHP10

(4) Ef4n = Emission Factor in pounds of NOx per gallon of biodiesel fuel for HHP6 – HHP10

(5) Ef5n = Emission Factor in pounds of NOx per kilogallon of propane for HHP6 – HHP10

(6) Ef6n = Emission Factor in pounds of NOX per gallon of biodiesel fuel for Production 1 -3.

(7) Ef7n = Emission Factor in pounds for NOx per gallon of J8 or Jet A for HHP6, HHP7, HHP8, HHP9, HHP10.

(b) The total PM emissions from HHP6 – HHP10 and Production 1 -3 shall not exceed 248 tons per twelve (12) consecutive month period with compliance determined at the end of each month.

The PM emissions shall be calculated by the following equation:

PM emissions = (Diesel fuel burned by HHP6 – HHP10 x (Ef1n of PM/gal of diesel fuel) + (Diesel fuel burned by Production 1 - 3) x (Ef2n, of PM/gal of diesel fuel)

+

(Natural gas burned by HHP6 – HHP10 x (Ef3n of PM/ft^3 of natural gas)

+

(Biodiesel fuel burned by HHP6 – HHP10) x (Ef4n of PM/gal of biodiesel fuel) +(Biodiesel fuel burned by Production 1 – 3) x Ef6n of PM/gal of biodiesel fuel)

+

(Propane fuel burned by HHP6 – HHP10) x (Ef5n of PM/gal of Propane fuel)

+

(JP8 and Jet A fuel burned by HHP6, HHP7, HHP8, HHP9, HHP10, x (Ef7n of PM/gal of J8 or Jet A)

Where:

(1) Ef1n = Emission Factor in pounds of PM per gallon of diesel fuel for HHP6 – HHP10

(2) Ef2n = Emission Factor in pounds of PM per gallon of diesel fuel for Production 1 – 3

(3) Ef3n = Emission Factor in pounds of PM per cubic foot of natural gas for HHP6 – HHP10

(4) Ef4n = Emission Factor in pounds of PM per gallon of biodiesel fuel for HHP6 – HHP10

(5) Ef5n = Emission Factor in pounds of PM per kilogallon of propane for HHP6 – HHP10

(6) Ef6n = Emission Factor in pounds of PM per gallon of biodiesel fuel for Production 1 -3.

(7) Ef7n = Emission Factor in pounds for PM per gallon of J8 or Jet A for HHP6, HHP7, HHP8, HHP9, HHP10.

(c) The total CO emissions from HHP6 – HHP10 and Production 1 -3 shall not exceed 230 tons per twelve (12) consecutive month period with compliance determined at the end of each month.

The CO emissions shall be calculated by the following equation:

CO emissions = (Diesel fuel burned by HHP6 – HHP10 x (Ef1n of CO/gal of diesel fuel) + (Diesel fuel burned by Production 1 - 3) x (Ef2n, of CO/gal of diesel fuel)

+

(Natural gas burned by HHP6 – HHP10 x (Ef3n of CO/ft^3 of natural gas)

+

(Biodiesel fuel burned by HHP6 – HHP10) x (Ef4n of CO/gal of biodiesel fuel) +(Biodiesel fuel burned by Production 1 – 3) x Ef6n of CO/gal of biodiesel fuel)

+

(Propane fuel burned by HHP6 – HHP10) x (Ef5n of CO/gal of Propane fuel)

+

(JP8 and Jet A fuel burned by HHP6, HHP7, HHP8, HHP9, HHP10, x (Ef7n of CO/gal of J8 or Jet A)

Where:

(1) Ef1n = Emission Factor in pounds of CO per gallon of diesel fuel for HHP6 – HHP10

(2) Ef2n = Emission Factor in pounds of CO per gallon of diesel fuel for Production 1 – 3

(3) Ef3n = Emission Factor in pounds of CO per cubic foot of natural gas for HHP6 – HHP10

(4) Ef4n = Emission Factor in pounds of CO per gallon of biodiesel fuel for HHP6 – HHP10

(5) Ef5n = Emission Factor in pounds of CO per kilogallon of propane for HHP6 – HHP10

(6) Ef6n = Emission Factor in pounds of CO per gallon of biodiesel fuel for Production 1 -3.

(7) Ef7n = Emission Factor in pounds for CO per gallon of J8 or Jet A for HHP6, HHP7, HHP8, HHP9, HHP10.

Compliance with these limits in combination with the potential to emit of PM, PM10, NOx, CO and VOC from all other units from this modification shall limit the emissions of PM, PM10, NOx, CO

and VOC emissions from this modification to less than two hundred and fifty (250) tons per year, each and render the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration) not applicable to the 2011 modification. After this modification the limited PTE from PM, PM10, SO2, NOx, CO and VOC for the entire source will be greater than 250 tons per year, each. Therefore, due to the addition of new production lines and test cells, the entire source will become major source under PSD after this Modification.

326 IAC 2-4.1 (Major Sources of Hazardous Air Pollutants (HAP))
The operation of the new units will emit less than ten (10) tons per year for a single HAP and less than twenty-five (25) tons per year for a combination of HAPs. Therefore, the requirements of 326 IAC 2-4.1 does not apply.

326 IAC 6-2-4 (Particulate Emission Limitations for Sources of Indirect Heating)
Pursuant to 326 IAC 6-2-4, the particulate matter (PM) from the new boilers shall EU03C-EU03X not exceed 0.338 pounds per MMBtu, each. The pound per hour limitation was calculated with the following equation:

(a) This limitation is based on the following equation:

$$Pt = 1.09/Q^{0.26}$$

Where:

Pt = Allowable Particulate Emissions Limitation in pounds of particulate matter emitted per million Btu (lb/MMBtu) heat input

Q = Total source maximum operating capacity rating in million Btu per hour (MMBtu/hr) heat input = 90.22

326 IAC 7-1.1 (Sulfur Dioxide Emission Limitations)
(a) The potential to emit SO_2 emissions from each of the test cells and each of the three production lines is greater than 25 tons per year. Pursuant to 326 IAC 7-1.1 (SO_2 Emissions Limitations) the SO_2 emissions from the test cells and production lines shall not exceed five tenths (0.5) pounds per million British thermal units heat input, each while combusting fuel oil.

(b) The requirements of 326 IAC 7-1.1 do not apply to the new boilers (EU03C-EU03X) because the potential to emit SO2 from each boiler is less than twenty five tons per year and ten pounds per hour.

326 IAC 8-1-6 (New facilities; general reduction requirements)
The five test cells and the three production lines have uncontrolled VOC emissions greater than 25 tons per year. Pursuant to 326 IAC 8-1-6, the VOC emissions from the five test cells and the three production lines shall be limited to less than 25 tons, each per twelve (12) consecutive month period with compliance determined at the end of each month.

VOC emissions = (Diesel fuel burned by HHP6 – HHP10 x (Ef1n of VOC/gal of diesel fuel) + (Diesel fuel burned by Production 1 - 3) x (Ef2n, of VOC/gal of diesel fuel)

+

(Natural gas burned by HHP6 – HHP10 x (Ef3n of VOC/ft^3 of natural gas)

+

(Biodiesel fuel burned by HHP6 – HHP10) x (Ef4n of VOC/gal of biodiesel fuel) +(Biodiesel fuel burned by Production 1 – 3) x Ef6n of VOC/gal of biodiesel fuel)

+

(Propane fuel burned by HHP6 – HHP10) x (Ef5n of VOC/gal of Propane fuel)

+

(JP8 and Jet A fuel burned by HHP6, HHP7, HHP8, HHP9, HHP10, x (Ef7n of VOC/gal of J8 or Jet A)

Where:

(1) Ef1n = Emission Factor in pounds of VOC per gallon of diesel fuel for HHP6 – HHP10

(2) Ef2n = Emission Factor in pounds of VOC per gallon of diesel fuel for Production 1 – 3

(3) Ef3n = Emission Factor in pounds of VOC per cubic foot of natural gas for HHP6 – HHP10

(4) Ef4n = Emission Factor in pounds of VOC per gallon of biodiesel fuel for HHP6 – HHP10

(5) Ef5n = Emission Factor in pounds of VOC per kilogallon of propane for HHP6 – HHP10

(6) Ef6n = Emission Factor in pounds of VOC per gallon of biodiesel fuel for Production 1 -3.

(7) Ef7n = Emission Factor in pounds for VOC per gallon of J8 or Jet A for HHP6, HHP7, HHP8, HHP9, HHP10.

Compliance with these limits, will limit the VOC emissions from each of the test cells and each of the production lines to less than 25 tons per year and render 326 IAC 8-1-6 (New Facilities, General Reduction requirements) not applicable to the five test cells and the three production lines.

Compliance Determination and Monitoring Requirements

Permits issued under 326 IAC 2-7 are required to ensure that sources can demonstrate compliance with all applicable state and federal rules on a continuous basis. All state and federal rules contain compliance provisions; however, these provisions do not always fulfill the requirement for a continuous demonstration. When this occurs, IDEM, OAQ, in conjunction with the source, must develop specific conditions to satisfy 326 IAC 2-7-5. As a result, Compliance Determination Requirements are included in the permit. The Compliance Determination Requirements in Section D of the permit are those conditions that are found directly within state and federal rules and the violation of which serves as grounds for enforcement action.

If the Compliance Determination Requirements are not sufficient to demonstrate continuous compliance, they will be supplemented with Compliance Monitoring Requirements, also in Section D of the permit. Unlike Compliance Determination Requirements, failure to meet Compliance Monitoring conditions would serve as a trigger for corrective actions and not grounds for enforcement action. However, a violation in relation to a compliance monitoring condition will arise through a source's failure to take the appropriate corrective actions within a specific time period.

Compliance Monitoring Requirements due to this modification are as follows:

Stack	Parameter	Frequency	Range	Excursions and Exceedances	Underlying Rule
Stacks HHP6.1, HPP7.1, HHP8.1, HPP9.1, HPP10.1, Production1.1, Production2.1, and Production3.1	Visible Emissions, when burning only diesel, biodiesel, only	Daily	Normal-Abnormal	Response Steps	326 IAC 2-2

Proposed Changes

The changes listed below have been made to Part 70 Operating Permit No. 071-21065-00015. Deleted language appears as ~~strikethroughs~~ and new language appears in **bold**:

Change 1: Section A.1 - General Information has been updated in the permit

A.1 General Information [326 IAC 2-7-4(c)] [326 IAC 2-7-5(15)] [326 IAC 2-7-1(22)]

The Permittee owns and operates a stationary internal combustion engine manufacturing plant, of which the testing and painting of the product is included.

Source Address:	800 East Third Street, Seymour, Indiana 47274
General Source Phone Number:	(812)524-6325
SIC Code:	3519
County Location:	Jackson
Source Location Status:	Attainment for all criteria pollutants
Source Status:	Part 70 Permit Program **Major Source** ~~Minor~~ under PSD; Minor Source, Section 112 of the Clean Air Act

Change 2: Emission Unit descriptions of the new units have been added to permit Sections A and D of the permit.

A.2 Emission Units and Pollution Control Equipment Summary [326 IAC 2-7-4(c)(3)] [326 IAC 2-7-5(15)]

This stationary source consists of the following emission units and pollution control devices:

***

(e) One (1) engineering engine test cell, identified as HHP6, approved for construction in 2011, may be powered by diesel, biodiesel JP8/JetA, propane natural gas blend or natural gas, with maximum output of 7032 hp and exhausting to stack HHP6.1.

(f) One (1) engineering engine test cell, identified as HHP8, approved for construction in 2011, may be powered by diesel, biodiesel, JP8/JetA, propane natural gas blend or natural gas, with maximum output of 7032 hp and exhausting to stack HHP8.1;

(g) One (1) engineering engine test cell, identified as HHP9, approved for construction in 2011, may be powered by diesel, biodiesel, JP8/JetA, propane natural gas blend or natural gas, with maximum output of 7032 hp and exhausting to stack HHP9.1;

(h) One (1) production engine test cell, identified as Production 1, approved for construction in 2011, may be powered by diesel, biodiesel with maximum output of 7032 hp and exhausting to stack Production 1.1.

(i) One (1) production engine test cell, identified as Production 2, approved for construction in 2011, may be powered by diesel, biodiesel with maximum output of 7032 hp and exhausting to stack Production 2.1.

(j) One (1) production engine test cell, identified as Production 3, approved for construction in 2011, may be powered by diesel, biodiesel with maximum output of 7032 hp and exhausting to stack Production 3.1.

(k) One (1) engineering engine test cell, identified as HHP7, approved for construction in 2011, may be powered by natural gas, biodiesel, JP8/JetA, propane natural gas blend or diesel fuel, with maximum output of 5685 hp and exhausting to stack HHP7.1.

(l) One (1) engineering engine test cell, identified as HHP10, approved for construction in 2011, may be powered by natural gas, biodiesel, JP8/JetA, propane natural gas blend or diesel fuel, with maximum output of 5685 hp, and exhausting to stack HHP10.1.

(m) Twenty-two (22) natural gas-fired boilers, identified as EU03C-EU03X, approved for construction in 2011, with EU003C-EU03V each having a maximum capacity of 2.0 MMBtu per hour and EU03W-EU03X, each having a maximum capacity of 4.2 MMBtu per hour, and exhausting to stacks B3-28, respectively.

~~(e)~~**(n)** Two (2) natural gas-fired boilers ~~with No.2 fuel oil backup~~, identified as EU-03A and EU-03B, installed in 1978, exhausting to stacks B1 and B2, respectively, each rated at 20.9 MMBtu per hour.

***

A.3 Specifically Regulated Insignificant Activities [326 IAC 2-7-1(21)] [326 IAC 2-7-4(c)] [326 IAC 2-7-5(15)]

This stationary source also includes the following insignificant activities which are specifically regulated, as defined in 326 IAC 2-7-1(21):

.....

(e) One (1) emergency diesel powered generator with maximum capacity of 1490 horse power. [Under 40 CFR 60, Subpart IIII, the emergency generator is considered a new affected source.][Under 40 CFR 63, Subpart ZZZZ, the emergency generator is considered a new affected source.]

Change 2: Conditions D.1.2, D.1.3, D.1.4, D.1.6 and D.1.11 have been updated in the permit.

D.1.2 Volatile Organic Compounds (VOC) [326 IAC 8-2-9]

Pursuant to 326 IAC 8-2-9 (Miscellaneous Metal Coating Operations), the Permittee shall not cause, allow, or permit the discharge into the atmosphere of any volatile organic compounds in excess of three and five-tenths (3.5) pounds of VOC per gallon of coating excluding water for extreme performance coatings, delivered to spray applicators in EU-01A, EU-01B, EU-01C, EU-01D and EU-01F, computed on a volume weighted average basis. **When using coatings that are above 3.5 pounds per gallon limit.**

D.1.3 Volatile Organic Compound (VOC) Limitations, Clean-up Requirements [326 IAC 8-2-9]

Pursuant to 326 IAC 8-2-9(f), ~~all solvents sprayed from the application equipment at spray booths EU-01A, EU-01B, EU-01C, EU-01D, and EU-01F during cleanup or color changes shall be directed into containers. Said containers shall be closed as soon as the solvent spraying is complete. In addition, all waste solvent shall be disposed of in such a manner that minimizes evaporation.~~
work practices shall be used to minimize VOC emissions from mixing operations, storage tanks, and other containers, and handling operations for coatings, thinners, cleaning

materials, and waste materials. Work practices shall include, but not be limited to, the following:

(1) Store all VOC containing coatings, thinners, coating related waste, and cleaning materials in closed containers.
(2) Ensure that mixing and storage containers used for VOC containing coatings, thinners, coating related waste, and cleaning materials are kept closed at all times except when depositing or removing these materials.
(3) Minimize spills of VOC containing coatings, thinners, coating related waste, and cleaning materials.
(4) Convey VOC containing coatings, thinners, coating related waste, and cleaning materials from one (1) location to another in closed containers or pipes.
(5) Minimize VOC emissions from the cleaning of application, storage, mixing, and conveying equipment by ensuring that equipment cleaning is performed without atomizing the cleaning solvent and all spent solvent is captured in closed containers.

D.1.4 Hazardous Air Pollutants (HAPs)

(a) The amount of single HAP delivered to the coating applicators (EU-01A through D and F) from coatings, and dilution and cleaning solvents used in the paint spray line identified as EU-01 and the amount of HAP from twenty five (25) engine test cells, identified as 801-808, HHP1-HHP10, 8(PI), 9(PI), 10(PI), EU-02C, and Production lines 1-3 (listed in Section D.2) shall be limited to less than nine (9) tons per twelve (12) consecutive month period for any single HAP with compliance determined at the end of each month period.

(b) The amount of total HAP delivered to the coating applicators (EU-01A through D and F) from coatings, and dilution and cleaning solvents used in the paint spray line identified as EU-01 and the amount of HAP from twenty five (25) engine test cells, identified as 801-808, HHP1-HHP10, 8(PI), 9(PI), 10(PI), EU-02C, and Production lines 1-3 (listed in Section D.2) less than twenty-four (24) tons per twelve (12) consecutive month period for total HAP with compliance determined at the end of each month period.

Compliance with these limits and the potential HAP emissions from the other emission units at this source, will limit the source-wide emissions of HAPs to less than ten (10) tons of a single HAP and less than twenty-five (25) tons of a combination of HAPs per twelve (12) consecutive month period and render the requirements of 326 IAC 2-4.1, not applicable to this source and make the source an area source of HAPs.

~~(a) The amount of any individual HAP delivered to the coating applicators (EU-01A through D and F) from coatings, and dilution and cleaning solvents, shall be limited to less than seven (7) tons per twelve (12) consecutive month period with compliance demonstrated at the end of each month. This usage limit, combined with the limits in conditions D.2.1 and D.2.2, is required to limit the potential to emit of each HAP to less than ten (10) tons per twelve (12) consecutive month period for the entire source.~~

~~(b) The combination of HAPs delivered to the coating applicators (EU-01A through D and F) from coatings, and dilution and cleaning solvents, shall be limited to less than nineteen (19) tons per twelve (12) consecutive month period with compliance demonstrated at the end of each month. This usage limit, combined with the limits in conditions D.2.1 and D.2.2, is required to limit the potential to emit of a combination of HAPs to less than twenty-five (25) tons per twelve consecutive month period for the entire source. Compliance with these limits will make this source a minor source for HAPs.~~

D.1.6 Volatile Organic Compounds (VOC) [326 IAC 8-1-2]

Compliance with the VOC content limit in condition D.1.2 shall be determined pursuant to 326 IAC 8-1-2(a)(7), using a volume weighted average of coatings on a daily basis. **When using coatings that are above 3.5 pounds per gallon limit.** This volume weighted average shall be determined by the following equation:

.....

D.1.11 Reporting Requirements

A quarterly summary of the information to document **the** compliance **status** with conditions D.1.2 and D.1.4 shall be submitted ~~to the address listed in Section C - General Reporting Requirements, of this permit,~~ using the reporting forms located at the end of this permit, or their equivalent, ~~within thirty (30) days after the end of the quarter being reported~~ **not later than thirty (30) days following the end of each calendar quarter**. The report submitted by the Permittee does require ~~the~~ **a** certification **that meets the requirements of 326 IAC 2-7-6(1)** by ~~the~~ **a** "responsible official" as defined by 326 IAC 2-7-1(34). **Section C - General Reporting Requirements contains the Permittee's obligations with regard to the reporting required by this condition.**

Change 3: The new test cells have been added to Section D.2 and corresponding emission limits have been added to the section.

SECTION D.2 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

***

(e) One (1) engineering engine test cell, identified as HHP6, approved for construction in 2011, may be powered by diesel, biodiesel JP8/JetA, propane natural gas blend or natural gas, with maximum output of 7032 hp and exhausting to stack HHP6.1.

(f) One (1) engineering engine test cell, identified as HHP8, approved for construction in 2011, may be powered by diesel, biodiesel, JP8/JetA, propane natural gas blend or natural gas, with maximum output of 7032 hp and exhausting to stack HHP8.1;

(g) One (1) engineering engine test cell, identified as HHP9, approved for construction in 2011, may be powered by diesel, biodiesel, JP8/JetA, propane natural gas blend or natural gas, with maximum output of 7032 hp and exhausting to stack HHP9.1;

(h) One (1) production engine test cell, identified as Production 1, approved for construction in 2011, may be powered by diesel, biodiesel with maximum output of 7032 hp and exhausting to stack Production 1.1.

(i) One (1) production engine test cell, identified as Production 2, approved for construction in 2011, may be powered by diesel, biodiesel with maximum output of 7032 hp and exhausting to stack Production 2.1.

(j) One (1) production engine test cell, identified as Production 3, approved for construction in 2011, may be powered by diesel, biodiesel with maximum output of 7032 hp and exhausting to stack Production 3.1.

(k) One (1) engineering engine test cell, identified as HHP7, approved for construction in 2011, may be powered by natural gas, biodiesel, JP8/JetA, propane natural gas blend or diesel fuel, with maximum output of 5685 hp and exhausting to stack HHP7.1.

(l) One (1) engineering engine test cell, identified as HHP10, approved for construction in 2011, may be powered by natural gas, biodiesel, JP8/JetA, propane natural gas blend or diesel fuel, with maximum output of 5685 hp, and exhausting to stack HHP10.1.

(The information describing the process contained in this emissions unit description box is descriptive information and does not constitute enforceable conditions.)

Emission Limitations and Standards [326 IAC 2-7-5(1)]

D.2.1 PSD Minor Limit [326 IAC 2-2]

(a) *******

Compliance with these limits shall limit the NOx emissions from the engine test cells and other emission units to less than two hundred and fifty (250) tons per year and render the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration) not applicable to this **modification** ~~source~~.

(c) ********

Compliance with these limits shall limit the VOC emissions from the Engine test cells and other emission units to less than two hundred and fifty (250) tons per year and render the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration) not applicable to this **modification** ~~source~~.

(e) *********

Compliance with these limits shall limit the CO emissions from the engine test cells and other emission units to less than two hundred and fifty (250) tons per year and render the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration) not applicable to this **modification** ~~source~~.

NEW EMISSION LIMITS FOR THE NEW UNITS

The total NOx emissions from HHP6 – HHP10 and Production 1 -3 shall not exceed 218 tons per twelve (12) consecutive month period with compliance determined at the end of each month.

(g) The NOx emissions shall be calculated by the following equation:

NOx emissions = (Diesel fuel burned by HHP6 – HHP10 x (Ef1n of NOx/gal of diesel fuel) + (Diesel fuel burned by Production 1 - 3) x (Ef2n, of NOx/gal of diesel fuel)

+

(Natural gas burned by HHP6 – HHP10 x (Ef3n of NOx/ft^3 of natural gas)

+

(Biodiesel fuel burned by HHP6 – HHP10) x (Ef4n of NOx/gal of biodiesel fuel) +(Biodiesel fuel burned by Production 1 – 3) x Ef6n of NOx/gal of biodiesel fuel)

+

(Propane fuel burned by HHP6 – HHP10) x (Ef5n of NOx/gal of Propane fuel)

+

(JP8 and Jet A fuel burned by HHP6, HHP7, HHP8, HHP9, HHP10, x (Ef7n of NOx/gal of J8 or Jet A)

Where:

(1) Ef1n = Emission Factor in pounds of NOx per gallon of diesel fuel for HHP6 – HHP10

(2) Ef2n = Emission Factor in pounds of NOx per gallon of diesel fuel for Production 1 – 3

(3) Ef3n = Emission Factor in pounds of NOx per cubic foot of natural gas for HHP6 – HHP10

(4) Ef4n = Emission Factor in pounds of NOx per gallon of biodiesel fuel for HHP6 – HHP10

(5) Ef5n = Emission Factor in pounds of NOx per kilogallon of propane for HHP6 – HHP10

(6) Ef6n = Emission Factor in pounds of NOX per gallon of biodiesel fuel for Production 1 -3.

(7) Ef7n = Emission Factor in pounds for NOx per gallon of J8 or Jet A for HHP6,HHP7, HHP8, HHP9, HHP10.

(h) The total PM emissions from HHP6 – HHP10 and Production 1 -3 shall not exceed 248 tons per twelve (12) consecutive month period with compliance determined at the end of each month.

The PM emissions shall be calculated by the following equation:

PM emissions = (Diesel fuel burned by HHP6 – HHP10 x (Ef1n of PM/gal of diesel fuel) + (Diesel fuel burned by Production 1 - 3) x (Ef2n, of PM/gal of diesel fuel)

+

(Natural gas burned by HHP6 – HHP10 x (Ef3n of PM/ft^3 of natural gas)

+

(Biodiesel fuel burned by HHP6 – HHP10) x (Ef4n of PM/gal of biodiesel fuel) +(Biodiesel fuel burned by Production 1 – 3) x Ef6n of PM/gal of biodiesel fuel)

+

(Propane fuel burned by HHP6 – HHP10) x (Ef5n of PM/gal of Propane fuel)

+

(JP8 and Jet A fuel burned by HHP6, HHP7, HHP8, HHP9, HHP10, x (Ef7n of PM/gal of J8 or Jet A)

Where:

(1) Ef1n = Emission Factor in pounds of PM per gallon of diesel fuel for HHP6 – HHP10

(2) Ef2n = Emission Factor in pounds of PM per gallon of diesel fuel for Production 1 – 3

(3) Ef3n = Emission Factor in pounds of PM per cubic foot of natural gas for HHP6 – HHP10

(4) Ef4n = Emission Factor in pounds of PM per gallon of biodiesel fuel for

HHP6 – HHP10

(5) Ef5n = Emission Factor in pounds of PM per kilogallon of propane for HHP6 – HHP10

(6) Ef6n = Emission Factor in pounds of PM per gallon of biodiesel fuel for Production 1 -3.

(7) Ef7n = Emission Factor in pounds for PM per gallon of J8 or Jet A for HHP6, HHP7, HHP8, HHP9, HHP10.

(i) The total CO emissions from HHP6 – HHP10 and Production 1 -3 shall not exceed 230 tons per twelve (12) consecutive month period with compliance determined at the end of each month.

The CO emissions shall be calculated by the following equation:

CO emissions = (Diesel fuel burned by HHP6 – HHP10 x (Ef1n of CO/gal of diesel fuel) + (Diesel fuel burned by Production 1 - 3) x (Ef2n, of CO/gal of diesel fuel)

+

(Natural gas burned by HHP6 – HHP10 x (Ef3n of CO/ft^3 of natural gas)

+

(Biodiesel fuel burned by HHP6 – HHP10) x (Ef4n of CO/gal of biodiesel fuel) +(Biodiesel fuel burned by Production 1 – 3) x Ef6n of CO/gal of biodiesel fuel)

+

(Propane fuel burned by HHP6 – HHP10) x (Ef5n of CO/gal of Propane fuel)

+

(JP8 and Jet A fuel burned by HHP6, HHP7, HHP8, HHP9, HHP10, x (Ef7n of CO/gal of J8 or Jet A)

Where:

(1) Ef1n = Emission Factor in pounds of CO per gallon of diesel fuel for HHP6 – HHP10

(2) Ef2n = Emission Factor in pounds of CO per gallon of diesel fuel for Production 1 – 3

(3) Ef3n = Emission Factor in pounds of CO per cubic foot of natural gas for HHP6 – HHP10

(4) Ef4n = Emission Factor in pounds of CO per gallon of biodiesel fuel for HHP6 – HHP10

(5) Ef5n = Emission Factor in pounds of CO per kilogallon of propane for HHP6 – HHP10

(6) Ef6n = Emission Factor in pounds of CO per gallon of biodiesel fuel for Production 1 -3.

(7) Ef7n = Emission Factor in pounds for CO per gallon of J8 or Jet A for HHP6, HHP7, HHP8, HHP9, HHP10.

Compliance with these limits in combination with the potential to emit of PM, PM10, NOx, CO and VOC from all other units from this modification shall limit the emissions of PM, PM10, NOx, CO and VOC emissions from this modification to less than two hundred and fifty (250) tons per year, each and render the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration) not applicable to the 2011 modification. After this modification the limited PTE from PM, PM10, SO2, NOx, CO and VOC for the entire source will be greater than 250 tons per year. Therefore, due to the addition of new production lines and test cells, the entire source will become major source under PSD after this Modification.

D.2.2 Minor HAP Limitations [326 IAC 2-4.1]

The Permittee shall comply with the following:

(a) The single HAP from the paint spray line booth, identified as EU-01 (listed in Section D.1), twenty five (25) engine test cells, identified as 801-808, HHP1-HHP10, 8(PI), 9(PI), 10(PI), EU-02C, and Production lines 1-3, shall be less than 9.0 tons per twleve (12) consecutive month period with compliance determined at the end of each month.

(b) The total HAP from the paint spray line booth, identified as EU-01 (listed in Section D.1), twenty five (25) engine test cells, identified as 801-808, HHP1-HHP10, 8(PI), 9(PI), 10(PI), EU-02C, and Production lines 1-3 shall be to less than 24.0 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

The single and total HAP emissions shall be calculated by the following equation:

HAP emissions = **The amount of HAP delivered to the coating applicators (EU-01A through D and F) from coatings, and dilution and cleaning solvents used in the paint spray line identified as EU-01**

+

(Diesel fuel burned by 801, 802, 803, 804, 805 and 808) x (Ef1 of HAP/gal of diesel fuel) + (Diesel fuel burned by 806, 807, HHP1, HHP2, HHP3, HHP5, 8(PI), 10(PI), 11(PI), HHP4 and EU-02C) x Ef2, of HAP/gal of diesel fuel) + ((Diesel fuel burned by HHP6 – HHP10 x (Ef1n of PM/gal of diesel fuel) + (Diesel fuel burned by Production 1 - 3) x (Ef2n, of PM/gal of diesel fuel)

+

(Biodiesel fuel burned by 806, 807, HHP1, HHP2, HHP3, HHP5, 8(PI) (PI), 11(PI), HHP4 and EU-02C) x (Ef4 of HAP/gal of biodiesel fuel) + ((Biodiesel fuel burned by HHP6 – HHP10) x (Ef4n of PM/gal of biodiesel fuel) +(Biodiesel fuel burned by Production 1 – 3) x Ef6n of PM/gal of biodiesel fuel)

+

(Natural gas burned by 806, 807, 808, HHP1, HHP3 HHP4, HHP5 and PI) x (Ef3 of HAP/ft^3 of natural gas)+ (Natural gas burned by HHP6 – HHP10 x (Ef3n of PM/ft^3 of natural gas)

+

(Propane natural gas blend fuel burned by 806, 807, HHP1, HHP3, HHP5, 8(PI) 10(PI), 11(PI), HHP4 and EU-02C) x (Ef5 of HAP/gal of Propane fuel) + (Propane fuel burned by HHP6 –

HHP10) x (Ef5n of PM/gal of Propane fuel)
+

(JP8 and Jet A fuel burned by HHP6, HHP7, HHP8, HHP9, HHP10, x (Ef7n of PM/gal of J8 or Jet A)

Where:

(1) Ef1 = Emission Factor in pounds of HAP per gallon of diesel fuel for 801, 802, 803, 804, 805 and 808;

(2) Ef2 = Emission Factor in pounds of HAP per gallon of diesel fuel for 806, 807, HHP1, HHP2, HHP3, HHP5, 8(PI), 10(PI), 11(PI), HHP4 and EU-02C;

(3) Ef3 = Emission Factor in pounds of HAP per cubic foot of natural gas for 806, 807, 808, HHP1,HHP3 HHP4, HHP5 and PI;

(4) Ef4 = Emission Factor in pounds of HAP per gallon of biodiesel fuel for 806, 807, HHP1, HHP2, HHP3, HHP5, 8(PI), 10(PI), 11(PI), HHP4 and EU-02C; and

(5) Ef5 = Emission Factor in pounds of HAP per kilogallon of propane for 806, 807, HHP1, HHP3, HHP5, 8(PI), 10(PI), 11(PI), HHP4 and EU-02C.

(6) Ef1n = Emission Factor in pounds of HAP per gallon of diesel fuel for HHP6 – HHP10

(7) Ef2n = Emission Factor in pounds of HAP per gallon of diesel fuel for Production 1 – 3

(8) Ef3n = Emission Factor in pounds of HAP per cubic foot of natural gas for HHP6 – HHP10

(9) Ef4n = Emission Factor in pounds of HAP per gallon of biodiesel fuel for HHP6 – HHP10

(10) Ef5n = Emission Factor in pounds of HAP per kilogallon of propane for HHP6 – HHP10

(11) Ef6n = Emission Factor in pounds of HAP per gallon of biodiesel fuel for Production 1 -3.

(12) Ef7n = Emission Factor in pounds for HAP per gallon of J8 or Jet A for HHP6,HHP7, HHP8, HHP9, HHP10.

Compliance with these limits and the potential HAP emissions from the other emission units at this source, will limit the source-wide emissions of HAPs to less than ten (10) tons of a single HAP and less than twenty-five (25) tons of a combination of HAPs per twelve (12) consecutive month period and render the requirements of 326 IAC 2-4.1, not applicable to this source and make the source an area source of HAPs.

D.2.3 VOC Limitations [326 IAC 8-1-6]

Pursuant to 326 IAC 8-1-6, the VOC emissions from the five test cells, identified as HHP6-HHP10 and the three production lines, identified as Production lines 1-3 shall be limited to less than 25 tons, each per twelve (12) consecutive month period with compliance determined at the end of month.

VOC emissions = (Diesel fuel burned by HHP6 – HHP10 x (Ef1n of VOC/gal of diesel fuel) + (Diesel fuel burned by Production 1 - 3) x (Ef2n, of VOC/gal of diesel fuel)

+

(Natural gas burned by HHP6 – HHP10 x (Ef3n of VOC/ft^3 of natural gas)

+

(Biodiesel fuel burned by HHP6 – HHP10) x (Ef4n of VOC/gal of biodiesel fuel) +(Biodiesel fuel burned by Production 1 – 3) x Ef6n of VOC/gal of biodiesel fuel)

+

(Propane fuel burned by HHP6 – HHP10) x (Ef5n of VOC/gal of Propane fuel)

+

(JP8 and Jet A fuel burned by HHP6, HHP7, HHP8, HHP9, HHP10, x (Ef7n of VOC/gal of J8 or Jet A)

Where:

(1) Ef1n = Emission Factor in pounds of VOC per gallon of diesel fuel for HHP6 – HHP10

(2) Ef2n = Emission Factor in pounds of VOC per gallon of diesel fuel for Production 1 – 3

(3) Ef3n = Emission Factor in pounds of VOC per cubic foot of natural gas for HHP6 – HHP10

(4) Ef4n = Emission Factor in pounds of VOC per gallon of biodiesel fuel for HHP6 – HHP10

(5) Ef5n = Emission Factor in pounds of VOC per kilogallon of propane for HHP6 – HHP10

(6) Ef6n = Emission Factor in pounds of VOC per gallon of biodiesel fuel for Production 1 -3.

(7) Ef7n = Emission Factor in pounds for VOC per gallon of J8 or Jet A for HHP6, HHP7, HHP8, HHP9, HHP10.

Compliance with these limits, will limit the VOC emissions from each of the test cells and each of the production lines to less than 25 tons per year and render 326 IAC 8-1-6 (New Facilities, General Reduction requirements) not applicable to the five test cells and the three production lines.

D.2.4 Sulfur Dioxide (SO_2) [326 IAC 7-1.1-1]

Pursuant to 326 IAC 7-1.1 (SO_2 Emissions Limitations), the SO_2 emissions from the test cells and production lines shall not exceed five tenths (0.5) pounds per million Btu heat input, each. Compliance shall be demonstrated on a calendar month average.

D.2.~~3~~**6** Visible Emissions Notations

(a) Visible emissions notations of the engine test cell stack exhausts (801.1 -801.2, 802.1 - 802.2, 803.1-803.2, 804 through 808, HHP1, HHP2, HHP3.1 -HHP3.2, HHP4.1-HHP4.2, HHP5.1-HHP5.2, PD8.1-PD8.2, PD9.1 and PD9.2, PD10.1 ~~and~~ PD11.1**, HHP6.1 through HHP10.1, and Production 1.1 through Production 3.1**) shall be performed

once per day during normal daylight operations when combusting diesel fuel or biodiesel. A trained employee will record whether emissions are normal or abnormal.

***

D.2.~~4~~**7** Record Keeping Requirements

(a) To document the compliance status with condition D.2.1 **and D.2.2**, the Permittee shall maintain records in accordance with (1) and (3) below:

(1) Calendar dates covered in the compliance determination period; and

(2) Actual diesel, biodiesel fuel oil, ~~or~~ propane, **natural gas, JetA, and J8** usage for EU-02A, EU-02B, ~~and~~ EU-02C, **HHP6 through HHP10, and Production1 through 3** since last compliance determination period and equivalent NOx emissions.

~~(3) Actual natural gas usage for EU-02A and EU-02B since last compliance determination period and equivalent NOx emissions.~~

(b) To document the compliance status with condition D.2.~~3~~**6** - Visible Emission Notation, the Permittee shall maintain records of daily visible emission notations of the stack exhausts listed, when combusting diesel fuel or biodiesel. The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of visible emission notation, (e.g. the process did not operate that day).

D.2.~~6~~**8** Reporting Requirements

A quarterly summary of the information to document **the** compliance **status** with condition**s** D.2.1**, D.2.2 and D.2.3** shall be submitted ~~to the address listed in Section C - General Reporting Requirements, of this permit,~~ using the reporting forms located at the end of this permit, or their equivalent, ~~within thirty (30) days after the end of the quarter being reported~~ **not later than thirty (30) days following the end of each calendar quarter**. The report submitted by the Permittee does require ~~the~~ **a** certification **that meets the requirements of 326 IAC 2-7-6(1)** by ~~the~~ **a** "responsible official" as defined by 326 IAC 2-7-1(34). **Section C - General Reporting Requirements contains the Permittee's obligations with regard to the reporting required by this condition**.

Change 4: The description and condition for the new boilers has been added to the permit in Section D.3. Subsequently, other conditions have been renumbered in the permit.

SECTION D.3 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]:

(m) Twenty-two (22) natural gas-fired boilers, identified as EU03C-EU03X, approved for construction in 2011, with EU003C-EU03V each having a maximum capacity of 2.0 MMBtu per hour and EU03W-EU03X, each having a maximum capacity of 4.2 MMBtu per hour, and exhausting to stacks B3-28, respectively

~~(e)~~**(n)** Two (2) natural gas-fired boilers ~~with No.2 fuel oil backup~~, identified as EU-03A and EU-03B, installed in 1978, exhausting to stacks B1 and B2, respectively, each rated at 20.9 MMBtu per hour.

Emission Limitations and Standards [326 IAC 2-7-5(1)]

******

D.3.2 Particulate Emission Limitations for Sources of Indirect Heating Matter (PM) Limitation [326 IAC 6-2-4]

Pursuant to 326 IAC 6-2-4, the PM emissions from boilers, identifies as EU03C-EU03X shall each be limited to 0.338 pounds per million British thermal units heat input.

****

~~D.3.6 Visible Emissions Notations~~

~~(a) Visible emission notations of the boiler stack exhausts (B1 and B2) shall be performed once per day during normal daylight operations while combusting fuel oil. A trained employee shall record whether emissions are normal or abnormal.~~

~~(b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.~~

~~(c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.~~

~~(d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.~~

~~(e) If abnormal emissions are observed, the Permittee shall take reasonable response steps. Failure to take response steps shall be considered a deviation from this permit. Section C – Response to Excursions or Exceedances contains the Permittee's obligation with regard to response to excursions or exceedances.~~

Record Keeping and Reporting Requirement [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

D.3.~~7~~**6** Record Keeping Requirements

****

D.3.~~8~~**7** Reporting Requirements

****

Change 5: New Sections have been added to the permit. Section E.1 - National Emissions Standard for Hazardous Air Pollutants and Section E.2 - New Source Performance Standards.

SECTION E.1 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description: Insignificant Unit

(e) One (1) emergency diesel powered generator with maximum capacity of 1490 horse power. [Under 40 CFR 60, Subpart IIII, the emergency generator is considered a new affected source.][Under 40 CFR 63, Subpart ZZZZ, the emergency generator is considered a new affected source.]

(The information describing the process contained in this emissions unit description box is descriptive information and does not constitute enforceable conditions.)

National Emissions Standard for Hazardous Air Pollutants [40 CFR Part 63]

E.1.1 National Emissions Standard for Hazardous Air Pollutants for stationary reciprocating Internal Combustion Engines [40 CFR Part 63, Subpart ZZZZ]

Pursuant to CFR Part 63, Subpart ZZZZ, the Permittee shall comply with the provisions of 40 CFR Part 63.6590, for the affected source, as specified as follows:

(1) 40 CFR 63.6580
(2) 40 CFR 63.6585
(3) 40 CFR 63.6590(a)(2)(iii) and (c)(1)
(4) 40 CFR 63.6595(a)(7)
(5) 40 CFR 63.6665

(6) 40 CFR 63.6670
(7) 40 CFR 63.6675

SECTION E.2 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description: Insignificant Unit

(e) One (1) emergency diesel powered generator with maximum capacity of 1490 horse power. [Under 40 CFR 60, Subpart IIII, the emergency generator is considered a new affected source.][Under 40 CFR 63, Subpart ZZZZ, the emergency generator is considered a new affected source.]

(The information describing the process contained in this emissions unit description box is descriptive information and does not constitute enforceable conditions.)

New Source Performance Standards [40 CFR Part 60]

E.2.1 General Provisions Relating to NSPS IIII [326 IAC 12][40 CFR Part 60, Subpart A]

The provisions of 40 CFR Part 60, Subpart A – General Provisions, which are incorporated by reference in 326 IAC 12-1, apply to the boiler described in this section except when otherwise specified in 40 CFR Part 60, Subpart IIII.

E.2.2 Standards of Performance for Stationary Compression Ingnition Internal Combustion Engines [326 IAC 12][40 CFR Part 60, Subpart IIII]

The Permittee who owns and operates stationary compression ignition (CI) internal combustion engines (ICE) shall comply with the following provisions of 40 CFR Part 60, Subpart IIII, included as Attachment B of this permit. The source is subject to the following portions of Subpart IIII:

(1) 40 CFR 60.4200
(2) 40 CFR 60.4205
(3) 40 CFR 60.4206
(4) 40 CFR 60.4207
(5) 40 CFR 60.4208
(6) 40 CFR 60.4209
(7) 40 CFR 60.4211
(8) 40 CFR 60.4212
(9) 40 CFR 60.4214
(10) 40 CFR 60.4218

Change 6: Compliance Monitoring for the new test cells has been added to Part 70 quarterly report forms.

~~INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT~~
~~OFFICE OF AIR QUALITY~~
~~COMPLIANCE DATA SECTION~~
~~Quarterly Report for HAPs Usage~~

~~Source Name: Cummins Industrial Center~~
~~Source Address: 800 East Third Street, Seymour, Indiana 47274~~
~~Part 70 Permit No.: T071-21065-00015~~
~~Facility: EU-01~~
~~Parameters: Combination of HAPs and Single HAP Usage~~
~~Limits: Combination of HAPs less than nineteen (19) tons per twelve (12) consecutive month period with compliance determined at the end of each month, and/or~~

~~single HAP less than seven (7) tons per twelve (12) consecutive month period with compliance determined at the end of each month.~~

~~QUARTER/YEAR: _____~~

~~Column 1~~	~~Column 2~~	~~Column 1 + Column 2~~
~~This Month~~	~~Previous 11 Months~~	~~12 Month Total~~

~~**COMBINATION HAPS**~~

~~Month 1~~			
~~Month 2~~			
~~Month 3~~			

~~**SINGLE HAP**~~

~~Month 1~~			
~~Month 2~~			
~~Month 3~~			

~~☐ No deviation occurred in this quarter.~~
~~☐ Deviation/s occurred in this quarter.~~
~~Deviation has been reported on: _____~~
~~Submitted by: _____~~
~~Title / Position: _____~~
~~Signature: _____~~
~~Date: _____~~
~~Phone: _____~~
~~Attach a signed certification that meets the requirements of 326 IAC 2-7-6(1) to complete this report.~~

Attach a signed that meets the requirements of 326 IAC 2-7-6(1) certification to complete this report.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE BRANCH

Part 70 Quarterly Report for Fuel Usage Limit

Source Name: Cummins Industrial Center
Source Address: 800 East Third Street, Seymour, Indiana 47274
Mailing Address: 800 East Third Street, Seymour, Indiana 47274
Part 70 Renewal Permit No.: T071-21065-00015
Facilities: Seventeen (17) engine test cells, known as EU-02A, EU-02B and EU-02C
Parameter: NOx Emissions
Limit: NOx emissions shall not exceed 217.9 tons of NOx per twelve (12) consecutive month period

YEAR: _____

Month	This Month		Previous 11 Months		12 Month Total	
	EU-02 Diesel Fuel, biodiesel or propane (gallons)	EU-02 Equivalent NO_X (tons)	EU-02 Diesel Fuel, biodiesel or propane	EU-02 Equivalent NO_X (tons)	EU-02 Diesel Fuel, biodiesel or propane	EU-02 Equivalent NO_X

			A + (B + C)	(gallons)		A + (B + C)	(gallons)		(tons) A + (B + C)
	A	B + C		A	B + C		A	B + C	
	Natural Gas (cubic feet)			Natural Gas (cubic feet)			Natural Gas (cubic feet)		
	A	B		A	B		A	B	

Total NOx Emissions from Diesel Fuel, Natural Gas, biodiesel or propane	Month	Month	Month
12 Month Total (tons)			

☐ No deviation occurred in this quarter.

☐ Deviation(s) occurred in this quarter.
Deviation has been reported on: _____

Submitted by: _____

Title / Position: _____

Signature: _____

Date: _____

Phone: _____

Attach a signed certification to complete this report.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION

Part 70 Quarterly Report

Source Name: **Cummins Industrial Center**
Source Address: **800 East Third Street, Seymour, Indiana 47274**
Part 70 Permit No.: T071-21065-00015
Facilities: **Five (5) engine test cells and Three (3) Production Lines**
Parameter: **NOx Emissions**
Limit: **NOx emissions shall not exceed 218 tons of NOx per twelve (12) consecutive month period**

YEAR: _____

Month	Fuel Type	Engines	Ef ID	Emission Factor Value (lb/gal or lb/cf)	Combined Fuel Usage This Month (gal of cf)	NOx Emissions (tons), This Month	Total NOx Emissions (tons), This Month, all engines	NOx Emissions (tons), Previous 11 Months, all engines	NOx Emissions (tons) 12 month total, all engines

	Diesel	**HHP6-HHP10**	**Ef1n**						
		Production 1-3	**Ef2n**						
	Natural Gas	**HHP6-HHP10**	**Ef3n**						
	Biodiesel	**HHP6-HHP10**	**Ef4n**						
		Production 1-3	**Ef6n**						
	Propane	**HHP6-HHP10**	**Ef5n**						
	JP8/JetA	**HHP6-HHP10,**	**Ef7n**						

☐ No deviation occurred in this quarter.
☐ Deviation(s) occurred in this quarter.
Deviation has been reported on: _____

Submitted by: _____
Title / Position: _____
Signature: _____
Date: _____
Phone: _____

Attach a signed certification that meets the requirements of 326 IAC 2-7-6(1) to complete this report.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION

Part 70 Quarterly Report

Source Name: **Cummins Industrial Center**
Source Address: **800 East Third Street, Seymour Indiana 47274**
Part 70 Permit No.: **T071-21065-00015**
Facility: **Five (5) engine test cells and Three (3) Production Lines**
Parameter: **PM**
Limit: **Less than 248 tons per twelve (12) consecutive month period.**

QUARTER : YEAR:

Month	Column 1	Column 2	Column 1 + Column 2
	This Month	Previous 11 Months	12 Month Total
Month 1			

Month 2			
Month 3			

☐ No deviation occurred in this quarter.

☐ Deviation/s occurred in this quarter.
Deviation has been reported on:

Submitted by: _____
Title / Position: _____
Signature: _____
Date: _____
Phone: _____

Attach a signed certification that meets the requirements of 326 IAC 2-7-6(1) to complete this report.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION

Part 70 Quarterly Report

Source Name: **Cummins Industrial Center**
Source Address: **800 East Third Street, Seymour Indiana 47274**
Part 70 Permit No.: **T071-21065-00015**
Facility: **Five (5) engine test cells and Three (3) Production Lines**
Parameter: **CO**
Limit: **Less than 230 tons per twelve (12) consecutive month period.**

QUARTER : YEAR:

Month	Column 1	Column 2	Column 1 + Column 2
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			

Month 3			

☐ No deviation occurred in this quarter.

☐ Deviation/s occurred in this quarter.
Deviation has been reported on:

Submitted by: _____
Title / Position: _____
Signature: _____
Date: _____
Phone: _____

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE AND ENFORCEMENT BRANCH

Part 70 Quarterly Report

Source Name:	Cummins Industrial Center
Source Address:	800 East Third Street, Seymour, Indiana 47274
Part 70 Permit No.:	T071-21065-00015
Facility:	HHP6
Parameter:	VOC
Limit:	Less than 25 tons per twelve (12) consecutive month period with compliance determined at the end of each month.

QUARTER : YEAR:

Month	Column 1	Column 2	Column 1 + Column 2
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

☐ No deviation occurred in this quarter.

☐ Deviation/s occurred in this quarter.
Deviation has been reported on:
Submitted by: _____
Title / Position: _____
Signature: _____
Date: _____
Phone: _____

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE AND ENFORCEMENT BRANCH

Part 70 Quarterly Report

Source Name: Cummins Industrial Center
Source Address: 800 East Third Street, Seymour, Indiana 47274
Part 70 Permit No.: T071-21065-00015
Facility: HHP7
Parameter: VOC
Limit: Less than 25 tons per twelve (12) consecutive month period with compliance determined at the end of each month.

QUARTER : YEAR:

Month	Column 1	Column 2	Column 1 + Column 2
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

☐ No deviation occurred in this quarter.

☐ Deviation/s occurred in this quarter.
Deviation has been reported on:
Submitted by: _____
Title / Position: _____
Signature: _____
Date: _____
Phone: _____

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

OFFICE OF AIR QUALITY
COMPLIANCE AND ENFORCEMENT BRANCH

Part 70 Quarterly Report

Source Name: Cummins Industrial Center
Source Address: 800 East Third Street, Seymour, Indiana 47274
Part 70 Permit No.: T071-21065-00015
Facility: HHP8
Parameter: VOC
Limit: Less than 25 tons per twelve (12) consecutive month period with compliance determined at the end of each month.

QUARTER : YEAR:

Month	Column 1	Column 2	Column 1 + Column 2
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

☐ No deviation occurred in this quarter.

☐ Deviation/s occurred in this quarter.
Deviation has been reported on:
Submitted by: _____
Title / Position: _____
Signature: _____
Date: _____
Phone: _____

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE AND ENFORCEMENT BRANCH

Part 70 Quarterly Report

Source Name: Cummins Industrial Center
Source Address: 800 East Third Street, Seymour, Indiana 47274
Part 70 Permit No.: T071-21065-00015
Facility: HHP9
Parameter: VOC
Limit: Less than 25 tons per twelve (12) consecutive month period with compliance determined at the end of each month.

.

QUARTER : YEAR:

Month	Column 1	Column 2	Column 1 + Column 2
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

☐ No deviation occurred in this quarter.

☐ Deviation/s occurred in this quarter.
Deviation has been reported on:
Submitted by: _____
Title / Position: _____
Signature:_____
Date: _____
Phone: _____

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE AND ENFORCEMENT BRANCH

Part 70 Quarterly Report

Source Name: Cummins Industrial Center
Source Address: 800 East Third Street, Seymour, Indiana 47274
Part 70 Permit No.: T071-21065-00015
Facility: HHP10
Parameter: VOC
Limit: Less than 25 tons per twelve (12) consecutive month period with compliance determined at the end of each month.

QUARTER : YEAR:

Month	Column 1	Column 2	Column 1 + Column 2
	This Month	Previous 11 Months	12 Month Total
Month 1			

Month 2			
Month 3			

☐ No deviation occurred in this quarter.

☐ Deviation/s occurred in this quarter.
Deviation has been reported on:
Submitted by: _____
Title / Position: _____
Signature:_____
Date: _____
Phone: _____

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE AND ENFORCEMENT BRANCH

Part 70 Quarterly Report

Source Name: Cummins Industrial Center
Source Address: 800 East Third Street, Seymour, Indiana 47274
Part 70 Permit No.: T071-21065-00015
Facility: Production 1
Parameter: VOC
Limit: Less than 25 tons per twelve (12) consecutive month period with compliance determined at the end of each month.

QUARTER : YEAR:

Month	Column 1	Column 2	Column 1 + Column 2
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

☐ No deviation occurred in this quarter.

☐ Deviation/s occurred in this quarter.
Deviation has been reported on:
Submitted by: _____
Title / Position: _____
Signature: _____
Date: _____
Phone: _____

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE AND ENFORCEMENT BRANCH

Part 70 Quarterly Report

Source Name:	Cummins Industrial Center
Source Address:	800 East Third Street, Seymour, Indiana 47274
Part 70 Permit No.:	T071-21065-00015
Facility:	Production 2
Parameter:	VOC
Limit:	Less than 25 tons per twelve (12) consecutive month period with compliance determined at the end of each month.

QUARTER : YEAR:

Month	Column 1	Column 2	Column 1 + Column 2
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

☐ No deviation occurred in this quarter.

☐ Deviation/s occurred in this quarter.
Deviation has been reported on:
Submitted by: _____
Title / Position: _____
Signature: _____
Date: _____
Phone: _____

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

OFFICE OF AIR QUALITY
COMPLIANCE AND ENFORCEMENT BRANCH

Part 70 Quarterly Report

Source Name: Cummins Industrial Center
Source Address: 800 East Third Street, Seymour, Indiana 47274
Part 70 Permit No.: T071-21065-00015
Facility: Production 3
Parameter: VOC
Limit: Less than 25 tons per twelve (12) consecutive month period with compliance determined at the end of each month.

QUARTER : YEAR:

Month	Column 1	Column 2	Column 1 + Column 2
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

☐ No deviation occurred in this quarter.

☐ Deviation/s occurred in this quarter.
Deviation has been reported on:
Submitted by: _____
Title / Position: _____
Signature:_____
Date: _____
Phone: _____

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION

FESOP Quarterly Report

Source Name: Cummins Industrial Center
Source Address: 800 East Third Street, Seymour, Indiana 47274
Part 70 Permit No.: T071-21065-00015
Facility: Twenty-five test cells and the Paint spray line booth
Parameter: Single HAPs Limit
Limit: Less than 9 tons per year for any single HAP per twelve (12) consecutive month period

YEAR:_____

Month	Column 1	Column 2	Column 1 + Column 2
	This Month	Previous 11 Months	12 Month Total
Month 1	Single HAP (tons)	Single HAP (tons)	Single HAP (tons)
Month 2			
Month 3			

☐ No deviation occurred in this quarter.

☐ Deviation/s occurred in this quarter.
Deviation has been reported on:_____

Submitted by: _____
Title / Position: _____
Signature: _____
Date: _____
Phone: _____

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION

FESOP Quarterly Report

Source Name: Cummins Industrial Center
Source Address: 800 East Third Street, Seymour, Indiana 47274
Part 70 Permit No.: T071-21065-00015
Facility: Twenty-five test cells and the Paint spray line booth
Parameter: Total HAPs Limit
Limit: Less than 24 tons per year for total HAPs per twelve (12) consecutive month period

YEAR:_____

Month	Column 1	Column 2	Column 1 + Column 2
	This Month	Previous 11 Months	12 Month Total

Month 1	Total HAPs (tons)	Total HAPs (tons)	Total HAPs (tons)
Month 2			
Month 3			

☐ No deviation occurred in this quarter.

☐ Deviation/s occurred in this quarter.
Deviation has been reported on:_____

Submitted by: _____
Title / Position: _____
Signature: _____
Date: _____
Phone: _____

Change 7: The emission Statement has been revised because the emission of PM and VOC is greater than 250 tons per year. Therefore the source will have to submit an annual emission statement.

C.18 Emission Statement [326 IAC 2-7-5(3)(C)(iii)][326 IAC 2-7-5(7)][326 IAC 2-7-19(c)][326 IAC 2-6]

Pursuant to **326 IAC 2-6-3(a)(1),** ~~326 IAC 2-6-3(b)(3), starting in 2006 and every three (3) years thereafter~~, the Permittee shall submit by July 1 of each year an emission statement covering the previous calendar year. The emission statement shall contain, at a minimum, the information specified in 326 IAC 2-6-4(c) and shall meet the following requirements:

Other Changes

Upon further review, IDEM, OAQ has decided to make the following changes to the permit. No T071-21065-00015. Deleted language appears as ~~strikethrough~~ text and new language appears as **bold** text:

(a) For clarity, IDEM, OAQ has changed references to the general conditions: "in accordance with Section B", "in accordance with Section C", or other similar language, to " Section C ... contains the Permittee's obligations with regard to the records required by this condition."

(b) IDEM, OAQ has decided that the phrases "no later than" and "not later than" are clearer than "within" in relation to the end of a timeline. Therefore all timeline have been switched to "no later than" or "not later than" except for the timelines in B.24, B.11 and B.16. The underlying rules state "within."

(c) 326 IAC 2-7 requires that "a responsible official" perform certain actions. 326 IAC 2-7-1(34) allows for multiple people to meet the definition of "responsible official." Therefore, IDEM, OAQ is revising all instances of "the responsible official" to read "a responsible official."

(d) IDEM, OAQ has added a new paragraph (b) to handle a future situation where the Permittee adds units that need preventive maintenance plans developed. IDEM, OAQ has decided to clarify other aspects of Section B - Preventive Maintenance Plan.

(e) IDEM, OAQ has decided to clarify Section D - Testing Requirements.

(f) The word "status" has been added to Section D - Reporting Requirements. The Permittee has the obligation to document the compliance status.

D.1.5 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan, ~~in accordance with Section B - Preventive Maintenance Plan, of this permit,~~ is required for EU-01A, EU-01B, EU-01C, EU-01D and EU-01F and any control devices. **Section B – Preventive Maintenance Plan contains the Permittee's obligation with regard to preventive maintenance plans.**

***

D.1.9 Monitoring

(a) Daily inspections shall be performed to verify the placement, integrity and particle loading of the filters. To monitor the performance of the dry filters, weekly observations shall be made of the overspray from the surface coating stacks (S1, S2, S3, S4, S5, S6, S7 and S8) while one (1) or more of the booths are in operation. If a condition exists which should result in a response step, the Permittee shall take reasonable response steps ~~in accordance with Section C - Response to Excursions or Exceedances.~~ Failure to take response steps ~~in accordance with Section C - Response to Excursions or Exceedances,~~ shall be considered a deviation of this permit. **Section C – Response to Excursions and Exceedances contains the Permittee's obligation with regard to response to excursions and exceedances.**

(b) Monthly inspections shall be performed of the coating emissions from the stacks and the presence of overspray on the rooftops and the nearby ground. When there is a noticeable change in overspray emissions, or evidence of overspray emissions, the Permittee shall take reasonable steps ~~in accordance with Section C - Response to Excursions or Exceedances~~. Failure to take response steps ~~in accordance with Section C - Response to Excursions or Exceedances,~~ shall be considered a deviation of this permit. **Section C – Response to Excursions and Exceedances contains the Permittee's obligation with regard to response to excursions and exceedances.**

~~***~~

D.1.10 Record Keeping Requirements

(a) To document **the** compliance **status** with condition D.1.2, the Permittee shall maintain records in accordance with (1) through (5) below. Records maintained for (1) through (5) shall be taken daily and shall be complete and sufficient to establish compliance with the VOC usage limit established in condition D.1.2.

***

(b) To document **the** compliance **status** with condition D.1.4, the Permittee shall maintain records in accordance with (1) through (3) below. Records maintained for (1) through (3) shall be taken monthly and shall be complete and sufficient to establish compliance with the HAP emission limits established in condition D.1.4.

***

(c) To document **the** compliance **status** with conditions D.1.5 and D.1.9, the Permittee shall maintain a log of weekly overspray observations, daily and monthly inspections, and those additional inspections prescribed by the Preventive Maintenance Plan.

***

(d) All records shall be maintained. ~~in accordance with Section C - General Record Keeping Requirements, of this permit.~~ **Section C – General Record Keeping Requirements**

contains the Permittee's obligation with regard to record keeping.

D.2.~~2~~**5** Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan, ~~in accordance with Section B - Preventive Maintenance Plan, of this permit,~~ is required for EU-02A, EU-02B, and EU-02C and any control devices. **Section B – Preventive Maintenance Plan contains the Permittee's obligation with regard to preventive maintenance plans.**

***

D.2.~~3~~**6** Visible Emissions Notations

***

(e) If abnormal emissions are observed, the Permittee shall take reasonable response steps ~~in accordance with Section C - Response to Excursions or Exceedances~~. Failure to take response steps ~~in accordance with Section C - Response to Excursions or Exceedances~~ shall be considered a deviation from this permit. **Section C – Response to Excursions or Exceedances contains the Permittee's obligation with regard to response to excursions or exceedances.**

***

D.2.~~4~~**7** Record Keeping Requirements

(a) To document **the** compliance **status** with condition D.2.1, the Permittee shall maintain records in accordance with (1) and (3) below:

***

(b) To document **the** compliance **status** with condition D.2.3 - Visible Emission Notation, the Permittee shall maintain records of daily visible emission notations of the stack exhausts listed, when combusting diesel fuel or biodiesel. The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of visible emission notation, (e.g. the process did not operate that day).

***

(c) All records shall be maintained. ~~in accordance with Section C - General Record Keeping Requirements, of this permit.~~ **Section C – General Record Keeping Requirements contains the Permittee's obligation with regard to record keeping.**

***

D.3.~~3~~**4** Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan~~, in accordance with Section B - Preventive Maintenance Plan, of this permit,~~ is required for these facilities and their control devices. **Section B – Preventive Maintenance Plan contains the Permittee's obligation with regard to preventive maintenance plans.**

***

D.3.~~5~~**6** Visible Emissions Notations

(e) If abnormal emissions are observed, the Permittee shall take reasonable response steps ~~in accordance with Section C - Response to Excursions or Exceedances~~. Failure to take response steps ~~in accordance with Section C - Response to Excursions or Exceedances~~ shall be considered a deviation from this permit. **Section C – Response to Excursions or Exceedances contains the Permittee's obligation with regard to response to excursions or exceedances.**

***

D.3.~~6~~**7** Record Keeping Requirements

(a) To document **the** compliance **status** with condition D.3.~~2~~**3**, the Permittee shall maintain records in accordance with (1) through (6) below.

***

(b) To document **the** compliance **status** with condition D.3.~~5~~**6**, the Permittee shall maintain

records of visible emission notations of the boiler stack exhausts once per shift.

***

(c) All records shall be maintained. ~~in accordance with Section C - General Record Keeping Requirements, of this permit.~~ **Section C – General Record Keeping Requirements contains the Permittee's obligation with regard to record keeping.**

***

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION

PART 70 OPERATING PERMIT
QUARTERLY DEVIATION AND COMPLIANCE MONITORING REPORT

Source Name: Cummins Industrial Center
Source Address: 800 East Third Street, Seymour, Indiana 47274
Part 70 Permit Renewal No.: T071-21065-00015

Months: _____ to _____ Year: _____

Page 1 of 2

This report shall be submitted quarterly based on a calendar year. Any deviation from the requirements **of this permit**, the date(s) of each deviation, the probable cause of the deviation, and the response steps taken must be reported. A deviation required to be reported pursuant to an applicable requirement that exists independent of the permit, shall be reported according to the schedule stated in the applicable requirement and does not need to be included in this report. Additional pages may be attached if necessary. If no deviations occurred, please specify in the box marked "No deviations occurred this reporting period".

Conclusion and Recommendation

The construction of this proposed modification shall be subject to the conditions of the attached proposed Part 70 Significant Source Modification No. 071-29612-00015 and Significant Permit Modification No. 071-29636-00015. The staff recommends to the Commissioner that this Part 70 Significant Source and Significant Permit Modification be approved.

Appendix A: Emissions Calculations
Emission Summary
Source Name: Cummins Industrial Center
Source Location: 800 East Third St., Seymour , IN 47274
Permit Number: 071-29612-00015
Permit Reviewer: Josiah Balogun
Date: 10-Feb-11

Uncontrolled Potential to Emit for 2011 Modification

	PM (tons/yr)	PM_{10} (tons/yr)	SO_2 (tons/yr)	VOC (tons/yr)	CO (tons/yr)	NOx (tons/yr)	HAPs (tons/yr)
Emission Unit							
HHP6	28.9	28.9	27	122	189.7	395.1	0.3
HHP8	28.9	28.9	27	122	189.7	395.1	0.3
HHP9	28.9	28.9	27	122	189.7	395.1	0.3
Production 1	28.9	28.9	27	122	189.7	395.1	0.3
Production 2	37.2	37.2	34.8	122	189.7	509.8	0.4
Production 3	37.2	37.2	34.8	122	189.7	509.8	0.4
HHP7	37.2	37.2	34.8	98.7	153.3	509.8	0.4
HHP10	37.2	37.2	34.8	98.7	153.3	509.8	0.4
Twenty two (22) Boilers	0.4	1.6	0.1	1.2	17.8	21.2	0.4
Emergency Generator	0.26	0.15	1.15	0.26	2.05	8.94	0.004
Total Emissions	265.06	266.15	248.45	930.86	1464.65	3649.74	Single HAP <10 Combined HAPs < 25

Appendix A: Emissions Calculations
Emission Summary
Source Name: Cummins Industrial Center
Source Location: 800 East Third St., Seymour , IN 47274
Permit Number: 071-29612-00015
Permit Reviewer: Josiah Balogun
Date: 10-Feb-11

Limited Potential to Emit for 2011 Modification

	PM (tons/yr)	PM_{10} (tons/yr)	SO_2 (tons/yr)	VOC (tons/yr)	CO (tons/yr)	NOx (tons/yr)	HAPs (tons/yr)
Emission Unit							
HHP6	248	248	27	230	230	218	0.3
HHP8			27				0.3
HHP9			27				0.3
Production 1			27				0.3
Production 2			34.8				0.3
Production 3			34.8				0.4
HHP7			34.8				0.4
HHP10			34.8				0.4
Twenty two (22) Boilers	0.4	1.6	0.1	1.2	17.8	21.2	0.4
Emergency Generator	0.26	0.15	1.15	0.26	2.05	8.94	0.4
Total Emissions	248.66	249.75	248.45	231.46	249.85	248.14	Single HAP <10 Combined HAPs < 25

Appendix A: Emission Calculations
Test Cells and Boilers
Modification Summary

Company Name: Cummins Industrial Center
Address City IN Zip: 800 East Third St., Seymour , IN 47274
Source Modification Number: 071-29612-00015
Reviewer: Josiah Balogun
Date: 10-Feb-11

Unit	Limited PTE (tons/yr) for the Entire Source							
	PM	PM10	SO2	VOC	CO	NOx	Single HAP	Total HAP
Spray Line, EU-01 *	0.06	0.06	0.00	67.20	0.00	0.00	< 10	< 25
Existing Test Cells	233.11	231.45	< 249	163.56	183.62	217.90		
Existing Boilers (B1 and B2)*	0.30	1.40	0.10	1.00	15.40	18.30		
Total for Existing Units	**233.47**	**232.91**	**< 249.1**	**231.76**	**199.02**	**236.20**	< 10	< 25
2011 Modification								
New Test Cells and Production Lines	248.00	248.00	247.20	230.00	230.00	218.00	1.20	3.10
Twenty-Two (22) New Boilers (EU03C-EU03AA)	0.40	1.60	0.10	1.20	17.80	21.20	0.38	0.40
Emergency Generators	0.26	0.15	1.15	0.26	2.05	8.94	0.11	0.11
Total for New Units	**248.66**	**249.75**	**248.45**	**231.46**	**249.85**	**248.14**	**1.69**	**3.61**
Total for the entire Source	**482.13**	**482.66**	**< 497.55**	**463.22**	**448.87**	**484.34**	**< 10**	**< 25**

Appendix A: Emission Calculations
Test Cells
Output Rating (7032 HP, each)
Maximum Input Rate (46.32 MMBru/hr)

Company Name: Cummins Industrial Center
Address City IN Zip: 800 East Third St., Seymour , IN 47274
Source Modification Number: 071-29612-00015
Reviewer: Josiah Balogun
Date: 10-Feb-11

Diesel

Test Cell Engine	Max. Fuel Usage (kgal/yr)	Emission Factors (lb/gal)*								Emissions (tons/yr)							
		NOx	SO2	VOC	PM	PM10	CO	Single HAP	Total HAP	NOx	SO2	VOC	PM	PM10	CO	Single HAP	Total HAP
HHP6	1,358	0.164	0.04	0.0493	0.0425	0.0425	0.13	0.0002	5E-04	111.3	27.0	33.5	28.9	28.9	88.3	0.3	0.3
HHP8	1,358	0.164	0.04	0.0493	0.0425	0.0425	0.13	0.0002	5E-04	111.3	27.0	33.5	28.9	28.9	88.3	0.1	0.3
HHP9	1,358	0.164	0.04	0.0493	0.0425	0.0425	0.13	0.0002	5E-04	111.3	27.0	33.5	28.9	28.9	88.3	0.1	0.3
Production 1	1,358	0.452	0.04	0.0493	0.0425	0.0425	0.13	0.0002	5E-04	306.7	27.0	33.5	28.9	28.9	88.3	0.1	0.3
Production 2	1,752	0.452	0.04	0.0493	0.0425	0.0425	0.13	0.0002	5E-04	395.8	34.8	43.2	37.2	37.2	113.9	0.1	0.4
Production 3	1,752	0.452	0.04	0.0493	0.0425	0.0425	0.13	0.0002	5E-04	395.8	34.8	43.2	37.2	37.2	113.9	0.1	0.4
HHP7	1,752	0.164	0.04	0.0493	0.0425	0.0425	0.13	0.0002	5E-04	143.7	34.8	43.2	37.2	37.2	113.9	0.1	0.4
HHP10	1,752	0.164	0.04	0.0493	0.0425	0.0425	0.13	0.0002	5E-04	143.7	34.8	43.2	37.2	37.2	113.9	0.1	0.4
Total Emissions										**1719.5**	**246.9**	**306.6**	**264.3**	**264.3**	**808.5**	**1.2**	**3.1**

* Emission factors are based on T071-27977-00015 and T071-21065-00015

Methodology

Emissions (tons/yr) = Fuel Usage (kgal/yr) * 1000 (gal/kgal) * Emission Factor (lb/gal) * 1/2000 (ton/lb)

Appendix A: Emission Calculations
Test Cells
Output Rating (7032 HP, each)
Maximum Input Rate (46.32 MMBru/hr)

Company Name: Cummins Industrial Center
Address City IN Zip: 800 East Third St., Seymour , IN 47274
Source Modification Number: 071-29612-00015
Reviewer: Josiah Balogun
Date: 10-Feb-11

Biodiesel

Test Cell Engine	Max. Fuel Usage (kgal/yr)	Emission Factors (lb/gal)*								Emissions (tons/yr)							
		NOx	SO2	VOC	PM	PM10	CO	Single HAP	Total HAP	NOx	SO2	VOC	PM	PM10	CO	Single HAP	Total HAP
HHP6	1,358	0.174	0.04	0.0493	0.0425	0.0425	0.13	0.0002	5E-04	117.8	27.0	33.5	28.9	28.9	88.3	0.1	0.3
HHP8	1,358	0.174	0.04	0.0493	0.0425	0.0425	0.13	0.0002	5E-04	117.8	27.0	33.5	28.9	28.9	88.3	0.1	0.3
HHP9	1,358	0.174	0.04	0.0493	0.0425	0.0425	0.13	0.0002	5E-04	117.8	27.0	33.5	28.9	28.9	88.3	0.1	0.3
Production 1	1,358	0.478	0.04	0.0493	0.0425	0.0425	0.13	0.0002	5E-04	324.5	27.0	33.5	28.9	28.9	88.3	0.1	0.3
Production 2	1,752	0.478	0.04	0.0493	0.0425	0.0425	0.13	0.0002	5E-04	418.7	34.8	43.2	37.2	37.2	113.9	0.1	0.4
Production 3	1,752	0.478	0.04	0.0493	0.0425	0.0425	0.13	0.0002	5E-04	418.7	34.8	43.2	37.2	37.2	113.9	0.1	0.4
HHP7	1,752	0.174	0.04	0.0493	0.0425	0.0425	0.13	0.0002	5E-04	152.0	34.8	43.2	37.2	37.2	113.9	0.1	0.4
HHP10	1,752	0.174	0.04	0.0493	0.0425	0.0425	0.13	0.0002	5E-04	152.0	34.8	43.2	37.2	37.2	113.9	0.1	0.4
Total Emissions										**1819.2**	**246.9**	**306.6**	**264.3**	**264.3**	**808.5**	**1.0**	**3.1**

* Emission factors are based on T071-27977-00015 and T071-21065-00015

Methodology

Emissions (tons/yr) = Fuel Usage (kgal/yr) * 1000 (gal/kgal) * Emission Factor (lb/gal) * 1/2000 (ton/lb)

Appendix A: Emission Calculations
Test Cells
Output Rating (7032 HP, each)
Maximum Input Rate (46.32 MMBru/hr)

Company Name: Cummins Industrial Center
Address City IN Zip: 800 East Third St., Seymour , IN 47274
Source Modification Number: 071-29612-00015
Reviewer: Josiah Balogun
Date: 10-Feb-11

JP8/Jet A

Test Cell Engine	Max. Fuel Usage (kgal/yr)	Emission Factors (lb/gal)*								Emissions (tons/yr)							
		NOx	SO2	VOC	PM	PM10	CO	Single HAP	Total HAP	NOx	SO2	VOC	PM	PM10	CO	Single HAP	Total HAP
HHP6	1,358	0.582	0.009	0.130815	0.0294	0.0294	0.18	0.0002	5E-04	395.1	6.4	88.8	20.0	20.0	124.2	0.1	0.3
HHP8	1,358	0.582	0.009	0.130815	0.0294	0.0294	0.18	0.0002	5E-04	395.1	6.4	88.8	20.0	20.0	124.2	0.1	0.3
HHP9	1,358	0.582	0.009	0.130815	0.0294	0.0294	0.18	0.0002	5E-04	395.1	6.4	88.8	20.0	20.0	124.2	0.1	0.3
Production 1	1,358	0.582	0.009	0.130815	0.0294	0.0294	0.18	0.0002	5E-04	395.1	6.4	88.8	20.0	20.0	124.2	0.1	0.3
Production 2	1,752	0.582	0.009	0.130815	0.0294	0.0294	0.18	0.0002	5E-04	509.8	8.2	114.6	25.8	25.8	160.3	0.1	0.4
Production 3	1,752	0.582	0.009	0.130815	0.0294	0.0294	0.18	0.0002	5E-04	509.8	8.2	114.6	25.8	25.8	160.3	0.1	0.4
HHP7	1,752	0.582	0.009	0.130815	0.0294	0.0294	0.18	0.0002	5E-04	509.8	8.2	114.6	25.8	25.8	160.3	0.1	0.4
HHP10	1,752	0.582	0.009	0.130815	0.0294	0.0294	0.18	0.0002	5E-04	509.8	8.2	114.6	25.8	25.8	160.3	0.1	0.4
Total Emissions										**3619.8**	**58.5**	**813.6**	**182.9**	**182.9**	**1138.2**	**1.0**	**3.1**

Methodology

Emissions (tons/yr) = Fuel Usage (kgal/yr) * 1000 (gal/kgal) * Emission Factor (lb/gal) * 1/2000 (ton/lb)

29574-000105

Emission factors for JP-8 adapted from "Emissions from a 6.5 HMMWV Enigine on Low Sulfur Diesel Fuel and JP-8", Tables: 2, 2A, and 4.

(Interim report TFLRF No. 376 / DAAE-07-99-C-L053 (WD-11))

1.0 gal. diesel fuel = 0.138261 MMBtu

1.0 gal. JP-8 fuel = 0.135000 MMBtu

Appendix A: Emission Calculations
Test Cells
Output Rating (7032 HP, each)
Maximum Input Rate (46.32 MMBru/hr)

Company Name: Cummins Industrial Center
Address City IN Zip: 800 East Third St., Seymour , IN 47274
Source Modification Number: 071-29612-00015
Reviewer: Josiah Balogun
Date: 10-Feb-11

Natural Gas

Test Cell Engine	Heat Input (MMBtu/hr)	Emission Factors (lb/MMBtu)*								Emissions (tons/yr)					
		NOx	SO2	VOC	PM	PM10	CO	Single HAP	Total HAP	NOx	SO2	VOC	PM	PM10	CO
HHP6		4.08	6E-04	0.118	0.0099	8E-05	0.32			0.0	0.0	0.0	0.0	0.0	0.0
HHP8		4.08	6E-04	0.12	0.01	8E-05	0.32			0.0	0.0	0.0	0.0	0.0	0.0
HHP9		4.08	6E-04	0.12	0.01	8E-05	0.32			0.0	0.0	0.0	0.0	0.0	0.0
Production 1		4.08	6E-04	0.12	0.01	8E-05	0.32			0.0	0.0	0.0	0.0	0.0	0.0
Production 2		4.08	6E-04	0.12	0.01	8E-05	0.32			0.0	0.0	0.0	0.0	0.0	0.0
Production 3		4.08	6E-04	0.12	0.01	8E-05	0.32			0.0	0.0	0.0	0.0	0.0	0.0
HHP7	29.64	4.08	6E-04	0.12	0.01	8E-05	0.32			529.7	0.1	15.6	1.3	0.0	41.5
HHP10	32.96	4.08	6E-04	0.12	0.01	8E-05	0.32			588.9	0.1	17.3	1.4	0.0	46.2
Total Emissions										**1118.6**	**0.2**	**32.9**	**2.7**	**0.0**	**87.7**

Methodology

Emissions (tons/yr) = Heat Input (MMBtu/hr) * Emission Factor (lb/MMBtu) * 1/2000 (ton/lb) * 8760 (hr/yr)

Critieria Pollutant Emission Factors From SPM 071-27977-00015

071-21065-00015 states that Fuel Oil is worst case for HAPs so no calculations were completed for HAPs from Natural Gas

Appendix A: Emission Calculations
Test Cells
Output Rating (7032 HP, each)
Maximum Input Rate (46.32 MMBru/hr)

Company Name: **Cummins Industrial Center**
Address City IN Zip: **800 East Third St., Seymour , IN 47274**
Source Modification Number: **071-29612-00015**
Reviewer: **Josiah Balogun**
Date: **10-Feb-11**

Worst-case Emissions

Pollutant	Worst Fuel Type	Total Emissions (tons/yr)
NOx	JP-8/Jet A	**3619.8**
SO2	Diesel/Bio-Diesel	**246.9**
VOC	Propane	**929.5**
PM	Diesel/Bio-Diesel	**264.3**
PM10	Diesel/Bio-Diesel	**264.3**
CO	Propane	**1444.6**
Single HAP	Diesel	**1.2**
Total HAP	Diesel/Bio-Diesel	**3.1**

Propane

Test Cell Engine	Max. Fuel Usage (kgal/yr)	Emission Factors (lb/kgal)*						Emissions (tons/yr)					
		NOx	SO2	VOC	PM	PM10	CO	NOx	SO2	VOC	PM	PM10	CO
HHP6	2,940	1.39E+02	3.50E-01	8.30E+01	5	5	1.29E+02	204.4	0.5	122.0	7.4	7.4	189.7
HHP8	2,940	1.39E+02	3.50E-01	8.30E+01	5	5	1.29E+02	204.4	0.5	122.0	7.4	7.4	189.7
HHP9	2,940	1.39E+02	3.50E-01	8.30E+01	5	5	1.29E+02	204.4	0.5	122.0	7.4	7.4	189.7
Production 1	2,940	1.39E+02	3.50E-01	8.30E+01	5	5	1.29E+02	204.4	0.5	122.0	7.4	7.4	189.7
Production 2	2,940	1.39E+02	3.50E-01	8.30E+01	5	5	1.29E+02	204.4	0.5	122.0	7.4	7.4	189.7
Production 3	2,940	1.39E+02	3.50E-01	8.30E+01	5	5	1.29E+02	204.4	0.5	122.0	7.4	7.4	189.7
HHP7	2,377	1.39E+02	3.50E-01	8.30E+01	5	5	1.29E+02	165.2	0.4	98.7	5.9	5.9	153.3
HHP10	2,377	1.39E+02	3.50E-01	8.30E+01	5	5	1.29E+02	165.2	0.4	98.7	5.9	5.9	153.3
Total Emissions								**1556.6**	**3.9**	**929.5**	**56.0**	**56.0**	**1444.6**

Propane Emission Factors are from Permit 005-7466-00002

Appendix A: Emission Calculations
Large Reciprocating Internal Combustion Engines - Diesel Fuel
Output Rating (>600 HP)
Maximum Input Rate (>4.2 MMBtu/hr)

Company Name: **Cummins Industrial Center**
Address City IN Zip: **800 East Third St., Seymour , IN 47274**
Permit Number: **071-29612-00015**
Reviewer: **Josiah Balogun**
Date: **10-Feb-11**

B. Emissions calculated based on output rating (hp)

Output Horsepower Rating (hp)	1490.0
Maximum Hours Operated per Year	500
Potential Throughput (hp-hr/yr)	745,000
Sulfur Content (S) of Fuel (% by weight)	0.500

	Pollutant						
	PM*	PM10*	PM2.5*	SO2	NOx	VOC	CO
Emission Factor in lb/hp-hr	7.00E-04	4.01E-04	4.01E-04	4.05E-03 *(.00809S)*	2.40E-02 **see below	7.05E-04	5.50E-03
Potential Emission in tons/yr	0.26	0.15	0.15	1.51	8.94	0.26	2.05

*PM10 emission factor in lb/hp-hr was calculated using the emission factor in lb/MMBtu and a brake specific fuel consumption of 7,000 Btu / hp-hr (AP-42 Table 3.3-1).
**NOx emission factor: uncontrolled = 0.024 lb/hp-hr, controlled by ignition timing retard = 0.013 lb/hp-hr

Hazardous Air Pollutants (HAPs)

	Pollutant						
	Benzene	Toluene	Xylene	Formaldehyde	Acetaldehyde	Acrolein	Total PAH HAPs***
Emission Factor in lb/hp-hr****	5.43E-06	1.97E-06	1.35E-06	5.52E-07	1.76E-07	5.52E-08	1.48E-06
Potential Emission in tons/yr	2.02E-03	7.33E-04	5.03E-04	2.06E-04	6.57E-05	2.05E-05	5.53E-04

***PAH = Polyaromatic Hydrocarbon (PAHs are considered HAPs, since they are considered Polycyclic Organic Matter)
****Emission factors in lb/hp-hr were calculated using emission factors in lb/MMBtu and a brake specific fuel consumption of 7,000 Btu / hp-hr (AP-42 Table 3.3-1).

Potential Emission of Total HAPs (tons/yr)	**4.10E-03**

Methodology
Emission Factors are from AP 42 (Supplement B 10/96) Tables 3.4-1 , 3.4-2, 3.4-3, and 3.4-4

Potential Throughput (hp-hr/yr) = [Output Horsepower Rating (hp)] * [Maximum Hours Operated per Year]
Potential Emission (tons/yr) = [Potential Throughput (hp-hr/yr)] * [Emission Factor (lb/hp-hr)] / [2,000 lb/ton]

Appendix A: Emissions Calculations
Natural Gas Combustion Only
MM BTU/HR <100

Company Name: **Cummins Industrial Center**
Address City IN Zip: **800 East Third St., Seymour , IN 47274**
Source Modification Number: **071-29612-00015**
Reviewer: **Josiah Balogun**
Date: **10-Feb-11**

Heat Input Capacity MMBtu/hr	Potential Throughput MMCF/yr
48.4	424.0

	Pollutant					
	PM*	PM10*	SO2	NOx	VOC	CO
Emission Factor in lb/MMCF	1.9	7.6	0.6	100 **see below	5.5	84
Potential Emission in tons/yr	0.4	1.6	0.1	21.2	1.2	17.8

*PM emission factor is filterable PM only. PM10 emission factor is filterable and condensable PM10 combined.
**Emission Factors for NOx: Uncontrolled = 100, Low NOx Burner = 50, Low NOx Burners/Flue gas recirculation = 32

Methodology

All emission factors are based on normal firing.
MMBtu = 1,000,000 Btu
MMCF = 1,000,000 Cubic Feet of Gas
Emission Factors are from AP 42, Chapter 1.4, Tables 1.4-1, 1.4-2, 1.4-3, SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03
Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,000 MMBtu
Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton

See page 12 for HAPs emissions calculations.

Appendix A: Emissions Calculations
Natural Gas Combustion Only
MM BTU/HR <100
HAPs Emissions

Company Name: **Cummins Industrial Center**
Address City IN Zip: **800 East Third St., Seymour , IN 47274**
Source Modification Number: **071-29612-00015**
Reviewer: **Josiah Balogun**
Date: **10-Feb-11**

	HAPs - Organics				
	Benzene	Dichlorobenzene	Formaldehyde	Hexane	Toluene
Emission Factor in lb/MMcf	2.1E-03	1.2E-03	7.5E-02	1.8E+00	3.4E-03
Potential Emission in tons/yr	4.452E-04	2.544E-04	1.590E-02	3.816E-01	7.208E-04

	HAPs - Metals				
	Lead	Cadmium	Chromium	Manganese	Nickel
Emission Factor in lb/MMcf	5.0E-04	1.1E-03	1.4E-03	3.8E-04	2.1E-03
Potential Emission in tons/yr	1.060E-04	2.332E-04	2.968E-04	8.056E-05	4.452E-04

Methodology is the same as page 11.

The five highest organic and metal HAPs emission factors are provided above.
Additional HAPs emission factors are available in AP-42, Chapter 1.4.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

Mitchell E. Daniels Jr.
Governor

Thomas W. Easterly
Commissioner

100 North Senate Avenue
Indianapolis, Indiana 46204
(317) 232-8603
Toll Free (800) 451-6027
www.idem.IN.gov

SENT VIA U.S. MAIL: CONFIRMED DELIVERY AND SIGNATURE REQUESTED

TO: David Wehrkamp
Cummins Industrial Ctr.
800 E. 3rd St MC 30125
Seymour IN 47274

DATE: Apr. 7, 2011

FROM: Matt Stuckey, Branch Chief
Permits Branch
Office of Air Quality

SUBJECT: Final Decision
Significant Source Mod
071-29612-00015

Enclosed is the final decision and supporting materials for the air permit application referenced above. Please note that this packet contains the original, signed, permit documents.

The final decision is being sent to you because our records indicate that you are the contact person for this application. However, if you are not the appropriate person within your company to receive this document, please forward it to the correct person.

A copy of the final decision and supporting materials has also been sent via standard mail to:
Darren Wildman CIC Plant Mgr. Cummins Industrial Ctr.
Elizabeth Hill Bruce Carter Associates
OAQ Permits Branch Interested Parties List

If you have technical questions regarding the enclosed documents, please contact the Office of Air Quality, Permits Branch at (317) 233-0178, or toll-free at 1-800-451-6027 (ext. 3-0178), and ask to speak to the permit reviewer who prepared the permit. If you think you have received this document in error, please contact Joanne Smiddie-Brush of my staff at 1-800-451-6027 (ext 3-0185), or via e-mail at jbrush@idem.IN.gov.

Final Applicant Cover letter.dot 11/30/07

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
We Protect Hoosiers and Our Environment.

Mitchell E. Daniels Jr.
Governor

Thomas W. Easterly
Commissioner

100 North Senate Avenue
Indianapolis, Indiana 46204
(317) 232-8603
Toll Free (800) 451-6027
www.idem.IN.gov

Apr. 7, 2011

TO: Jackson County Public Library

From: Matthew Stuckey, Branch Chief
Permits Branch
Office of Air Quality

Subject: **Important Information for Display Regarding a Final Determination**

Applicant Name: Cummins Industrial Ctr.
Permit Number: 071-29612-00015

You previously received information to make available to the public during the public comment period of a draft permit. Enclosed is a copy of the final decision and supporting materials for the same project. Please place the enclosed information along with the information you previously received. To ensure that your patrons have ample opportunity to review the enclosed permit, **we ask that you retain this document for at least 60 days.**

The applicant is responsible for placing a copy of the application in your library. If the permit application is not on file, or if you have any questions concerning this public review process, please contact Joanne Smiddie-Brush, OAQ Permits Administration Section at 1-800-451-6027, extension 3-0185.

Enclosures
Final Library.dot 11/30/07

Mail Code 61-53

IDEM Staff	BMILLER 4/7/2011 Cummins Industrial Ctr 071-29612-00015 (final)			AFFIX STAMP HERE IF USED AS CERTIFICATE OF MAILING
Name and address of Sender	▶	Indiana Department of Environmental Management Office of Air Quality – Permits Branch 100 N. Senate Indianapolis, IN 46204	Type of Mail: **CERTIFICATE OF MAILING ONLY**	

Line	Article Number	Name, Address, Street and Post Office Address	Postage	Handing Charges	Act. Value (If Registered)	Insured Value	Due Send if COD	R.R. Fee	S.D. Fee	S.H. Fee	Rest. Del. Fee Remarks
1		David Wehrkamp Cummins Industrial Ctr 800 East 3rd St MC 30125 Seymour IN 47274 (Source CAATS) ***Via Confirm Delivery***									
2		Darren Wildman CIC Plant Mgr Cummins Industrial Ctr 800 East 3rd St MC 30125 Seymour IN 47274 *(RO CAATS)*									
3		Jackson County Commissioner Jackson County Courthouse Brownstown IN 47220 *(Local Official)*									
4		Mr. Wendell Hibdon Plumbers & Steam Fitters Union, Local 136 2300 St. Joe Industrial Park Dr Evansville IN 47720 *(Affected Party)*									
5		Mr. Tome Earnhart 3960 N. CR 300 W. North Vernon IN 47265 *(Affected Party)*									
6		Seymour City Council and Mayors Office 301 North Chestnut Street Seymour IN 47274 *(Local Official)*									
7		Jackson County Health Department 801 West 2nd Street Seymour IN 47274-2711 *(Health Department)*									
8		Jackson Co Public Library 303 W 2nd Street Seymour IN 47274-2184 *(Library)*									
9		Ms. Elizabeth Hill Bruce Carter Associates 616 S 4th Street Elkhart IN 46516 *(Consultant)*									
10											
11											
12											
13											
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15											

Total number of pieces Listed by Sender	Total number of Pieces Received at Post Office	Postmaster, Per (Name of Receiving employee)	The full declaration of value is required on all domestic and international registered mail. The maximum indemnity payable for the reconstruction of nonnegotiable documents under Express Mail document reconstructing insurance is $50,000 per piece subject to a limit of $50, 000 per occurrence. The maximum indemnity payable on Express mil merchandise insurance is $500. The maximum indemnity payable is $25,000 for registered mail, sent with optional postal insurance. See ***Domestic Mail Manual*** **R900, S913**, and **S921** for limitations of coverage on inured and COD mail. See ***International Mail Manual*** for limitations o coverage on international mail. Special handling charges apply only to Standard Mail (A) and Standard Mail (B) parcels.

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