



Mitchell E. Daniels, Jr.
Governor

Thomas W. Easterly
Commissioner

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

TO: Interested Parties / Applicant
DATE: December 28, 2006
RE: Cummins Industrial Center / 071-21065-00015
FROM: Nisha Sizemore
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 13-15-5-3, this permit 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 13-15-6-1(b) or IC 13-15-6-1(a) 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 of Environmental Adjudication, 100 North Senate Avenue, Government Center North, Room 1049, Indianapolis, IN 46204.

For an **initial Title V Operating Permit**, a petition for administrative review must be submitted to the Office of Environmental Adjudication within **thirty (30)** days from the receipt of this notice provided under IC 13-15-5-3, pursuant to IC 13-15-6-1(b).

For a **Title V Operating Permit renewal**, a petition for administrative review must be submitted to the Office of Environmental Adjudication within **fifteen (15)** days from the receipt of this notice provided under IC 13-15-5-3, pursuant to IC 13-15-6-1(a).

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.

Pursuant to 326 IAC 2-7-18(d), any person may petition the U.S. EPA to object to the issuance of an initial Title V operating permit, permit renewal, 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 impracticable 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.



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PART 70 OPERATING PERMIT RENEWAL OFFICE OF AIR QUALITY

**Cummins Industrial Center
800 East Third Street
Seymour, Indiana 47274**

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

The Permittee must comply with all conditions of this permit. Noncompliance with any provisions of this permit is grounds for enforcement action; permit termination, revocation and reissuance, or modification; or denial of a permit renewal application. Noncompliance with any provision of this permit, except any provision specifically designated as not federally enforceable, constitutes a violation of the Clean Air Act. It shall not be a defense for the Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. An emergency does constitute an affirmative defense in an enforcement action provided the Permittee complies with the applicable requirements set forth in Section B, Emergency Provisions.

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.

Operation Permit No.: T071-21065-00015	
Original signed by Nisha Sizemore, Chief Permits Branch Office of Air Quality	Issuance Date: December 28, 2006 Expiration Date: December 28, 2011

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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.

Responsible Official:	Plant Manager
Source Address:	800 East Third Street, Seymour, Indiana 47274
Mailing Address:	Same
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 Minor under PSD; Major 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, with a maximum combined usage of 142.14 gallons of diesel fuel per hour each, or 23.69 gallons each, consisting of the following equipment:
 - (1) Three (3) diesel-powered production engine test cells, identified as 801, 802, and 803, exhausting to stacks 801, 802, and 803, respectively, with maximum outputs of 765 hp and heat inputs of 3.08 MMBtu per hour each;
 - (2) Two (2) diesel-powered production engine test cells, identified as 804 and 805, exhausting to stacks 804 and 805, respectively, with maximum outputs of 1,500 hp and heat inputs of 3.08 MMBtu per hour each; and

- (3) One (1) diesel-powered or natural gas-fired production engine test cell, identified as 808, exhausting to stack 808, with a maximum output of 1,500 hp when combusting diesel oil or natural gas, heat input of 3.08 MMBtu per hour when combusting diesel oil and 2.68 MMBtu per hour when combusting natural gas.
- (c) Eight (8) engineering engine test cells, identified as EU-02B, installed in 1978, with a maximum combined usage of 314.4 gallons of diesel fuel per hour, or 39.3 gallons each, consisting of the following equipment:
- (1) Two (2) diesel-powered engineering engine test cells, identified as 806 and 807, exhausting to stacks 806 and 807, respectively, with a maximum outputs of 1,350 hp and heat inputs of 5.11 MMBtu per hour each;
 - (2) Two (2) diesel-powered engineering engine test cells, identified as HHP1 and HHP2, exhausting to stacks HHP1 and HHP2, respectively, with a maximum outputs of 3,600 hp and heat inputs of 5.11 MMBtu per hour each;
 - (3) One (1) diesel-powered engineering engine test cell, identified as HHP3, exhausting to stack HHP3, with a maximum output of 3,150 hp and heat input of 5.11 MMBtu per hour;
 - (4) One (1) diesel-powered engineering test cell, identified as HHP5, exhausting to stack HHP5, with maximum output of 1,350 hp and heat input of 5.11 MMBtu per hour;
 - (5) One (1) diesel-powered or natural gas-fired outside engine test pad, identified as PI, exhausting to stacks PD1 and PD2, with a maximum output of 6,700 hp when combusting diesel oil or natural gas, and a heat input of 5.11 MMBtu per hour when combusting diesel oil or 4.44 MMBtu per hour when combusting natural gas; and
 - (6) One (1) diesel-powered or natural gas-fired engineering engine test cell, identified as HHP4, exhausting to stack HHP4, with a maximum output of 1,350 hp when combusting diesel oil or natural gas, and a heat input of 5.11 MMBtu per hour when combusting diesel oil or 4.44 MMBtu per hour when combusting natural gas.
- (d) One (1) diesel-powered engineering engine test cell, identified as EU-02C, installed in 2005, exhausting to stacks TC-11.1 and TC-11.2, with a maximum output of 3,500 hp and heat input of 21.37 MMBtu per hour, and usage of 164.47 gallons of diesel fuel per hour.
- (e) 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):

- (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. [326 IAC 12] [40 CFR 60.116b, Subpart Kb]

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 Branch, Office of Air Quality
100 North Senate Avenue
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 Branch, Office of Air Quality
100 North Senate Avenue
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
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 Branch, Office of Air Quality
100 North Senate Avenue
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 Branch, Office of Air Quality
100 North Senate Avenue
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 Branch, Office of Air Quality
100 North Senate Avenue
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) A modification, construction, or reconstruction is governed by the requirements of 326 IAC 2 and 326 IAC 2-7-10.5.
- (b) Any modification at an existing major source is governed by the requirements of 326 IAC 2-2-2 and/or 326 IAC 2-3-2.

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 Branch, 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.

SECTION C

SOURCE OPERATION CONDITIONS

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
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 Branch, Office of Air Quality
100 North Senate Avenue
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(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:

- (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
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) If there is a reasonable possibility that a "project" (as defined in 326 IAC 2-2-1 (qq) and/or 326 IAC 2-3-1(II)) at an existing emissions unit, other than projects at a Clean Unit, which is not part of a "major modification" (as defined in 326 IAC 2-2-1(ee) and/or 326 IAC 2-3-1(z)) may result in significant emissions increase and the Permittee elects to utilize the "projected actual emissions" (as defined in 326 IAC 2-2-1(rr) and/or 326 IAC 2-3-1(mm)), the Permittee shall comply with following:

- (1) Prior to commencing the construction of the "project" (as defined in 326 IAC 2-2-1(qq) and/or 326 IAC 2-3-1(ll)) at an existing emissions unit, document and maintain the following records:
 - (A) A description of the project.
 - (B) Identification of any emissions unit whose emissions of a regulated new source review pollutant could be affected by the project.
 - (C) A description of the applicability test used to determine that the project is not a major modification for any regulated NSR pollutant, including:
 - (i) Baseline actual emissions;
 - (ii) Projected actual emissions;
 - (iii) Amount of emissions excluded under section 326 IAC 2-2-1(rr)(2)(A)(iii) and/or 326 IAC 2-3-1(mm)(2)(A)(iii); and
 - (iv) An explanation for why the amount was excluded, and any netting calculations, if applicable.
- (2) Monitor the emissions of any regulated NSR pollutant that could increase as a result of the project and that is emitted by any existing emissions unit identified in (1)(B) above; and
- (3) Calculate and maintain a record of the annual emissions, in tons per year on a calendar year basis, for a period of five (5) years following resumption of regular operations after the change, or for a period of ten (10) years following resumption of regular operations after the change if the project increases the design capacity of or the potential to emit that regulated NSR pollutant at the emissions unit.

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
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).
- (e) The first report shall cover the period commencing on the date of issuance of this permit and ending on the last day of the reporting period. Reporting periods are based on calendar years, unless otherwise specified in this permit. For the purpose of this permit "calendar year" means the twelve (12) month period from January 1 to December 31 inclusive.
- (f) If the Permittee is required to comply with the recordkeeping provisions of (c) in Section C- General Record Keeping Requirements for any "project" (as defined in 326 IAC 2-2-1(qq) and/or 326 IAC 2-3-1(ll)) at an existing emissions unit, and the project meets the following criteria, then the Permittee shall submit a report to IDEM, OAQ:

- (1) The annual emissions, in tons per year, from the project identified in (c)(1) in Section C- General Record Keeping Requirements exceed the baseline actual emissions, as documented and maintained under Section C - General Record Keeping Requirements (c)(1)(C)(i), by a significant amount, as defined in 326 IAC 2-2-1(xx) and/or 326 IAC 2-3-1(qq), for that regulated NSR pollutant, and
 - (2) The emissions differ from the preconstruction projection as documented and maintained under Section C - General Record Keeping Requirements (c)(1)(C)(ii).
- (g) The report for project at an existing emissions unit shall be submitted within sixty (60) days after the end of the year and contain the following:
- (1) The name, address, and telephone number of the major stationary source.
 - (2) The annual emissions calculated in accordance with (c)(2) and (3) in Section C- General Record Keeping Requirements.
 - (3) The emissions calculated under the actual-to-projected actual test stated in 326 IAC 2-2-2(d)(3) and/or 326 IAC 2-3-2(c)(3).
 - (4) Any other information that the Permittee deems fit to include in this report.

Reports required in this part shall be submitted to:

Indiana Department of Environmental Management
Air Compliance Section, Office of Air Quality
100 North Senate Avenue
Indianapolis, Indiana 46204-2251

- (h) The Permittee shall make the information required to be documented and maintained in accordance with (c) in Section C - General Record Keeping Requirements available for review upon a request for inspection by IDEM, OAQ. The general public may request this information from the IDEM, OAQ under 326 IAC 17.1.

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.

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.

D.1.4 Hazardous Air Pollutants (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.1.5 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.

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. This volume weighted average shall be determined by the following equation:

$$A = \frac{\sum (C \times U)}{\sum U}$$

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 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.
- (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.
- (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 compliance 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 compliance 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 compliance 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.

D.1.11 Reporting Requirements

A quarterly summary of the information to document compliance 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. The report submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

SECTION D.2

FACILITY OPERATION CONDITIONS

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

- (b) Six (6) production engine test cells, identified as EU-02A, constructed in 1978, with a maximum combined usage of 142.14 gallons of diesel fuel per hour each, or 23.69 gallons each, consisting of the following equipment:
- (1) Three (3) diesel-powered production engine test cells, identified as 801, 802, and 803, exhausting to stacks 801, 802, and 803, respectively, with maximum outputs of 765 hp and heat inputs of 3.08 MMBtu per hour each;
 - (2) Two (2) diesel-powered production engine test cells, identified as 804 and 805, exhausting to stacks 804 and 805, respectively, with maximum outputs of 1,500 hp and heat inputs of 3.08 MMBtu per hour each; and
 - (3) One (1) diesel-powered or natural gas-fired production engine test cell, identified as 808, exhausting to stack 808, with a maximum output of 1,500 hp when combusting diesel oil or natural gas, heat input of 3.08 MMBtu per hour when combusting diesel oil and 2.68 MMBtu per hour when combusting natural gas.
- (c) Eight (8) engineering engine test cells, identified as EU-02B, installed in 1978, with a maximum combined usage of 314.4 gallons of diesel fuel per hour, or 39.3 gallons each, consisting of the following equipment:
- (1) Two (2) diesel-powered engineering engine test cells, identified as 806 and 807, exhausting to stacks 806 and 807, respectively, with a maximum outputs of 1,350 hp and heat inputs of 5.11 MMBtu per hour each;
 - (2) Two (2) diesel-powered engineering engine test cells, identified as HHP1 and HHP2, exhausting to stacks HHP1 and HHP2, respectively, with a maximum outputs of 3,600 hp and heat inputs of 5.11 MMBtu per hour each;
 - (3) One (1) diesel-powered engineering engine test cell, identified as HHP3, exhausting to stack HHP3, with a maximum output of 3,150 hp and heat input of 5.11 MMBtu per hour;
 - (4) One (1) diesel-powered engineering test cell, identified as HHP5, exhausting to stack HHP5, with a maximum output of 1,350 hp and heat input of 5.11 MMBtu per hour;
 - (5) One (1) diesel-powered or natural gas-fired outside engine test pad, identified as PI, exhausting to stacks PD1 and PD2, with a maximum output of 6,700 hp when combusting diesel oil or natural gas, and a heat input of 5.11 MMBtu per hour when combusting diesel oil or 4.44 MMBtu per hour when combusting natural gas; and
 - (6) One (1) diesel-powered or natural gas-fired engineering engine test cell, identified as HHP4, exhausting to stack HHP4, with a maximum output of 1,350 hp when combusting diesel oil or natural gas, and a heat input of 5.11 MMBtu per hour when combusting diesel oil or 4.44 MMBtu per hour when combusting natural gas.
- (d) One (1) diesel-powered engineering engine test cell, identified as EU-02C, installed in 2005, exhausting to stacks TC-11.1 and TC-11.2, with a maximum output of 3,500 hp and heat input of 21.37 MMBtu per hour, and usage of 164.47 gallons of diesel fuel 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.2.1 PSD Minor Limit [326 IAC 2-2]

- (a) The total diesel fuel combusted by the fifteen (15) engine test cells, known as EU-02A, EU-02B, and EU-02C shall not exceed the amount calculated by the following equation, equivalent to NOx emissions of 217.9 tons per twelve (12) consecutive month period.

$$\text{NOx emissions} = \frac{(\text{Diesel fuel burned by EU-02A}) \times (0.427 \text{ lbs of NOx/gal of diesel fuel}) \div (2000 \text{ lbs/ton}) + (\text{Diesel fuel burned by EU-02B and EU-02C}) \times (0.155 \text{ lbs of NOx/gal of diesel fuel}) \div (2000 \text{ lbs/ton}) + (\text{Natural gas burned by 808, HHP4 and PI}) \times (0.00416 \text{ lbs of NOx/ft}^3 \text{ of natural gas}) \div (2000 \text{ lbs/ton})}{\text{at a natural gas heat content of } 1,020 \text{ MMBtu/ft}^3}$$

- (b) The NOx emissions shall not exceed:
- (1) 0.427 pounds of NOx per gallon of diesel fuel for EU-02A;

- (2) 0.155 pounds of NOx per gallon of diesel fuel for EU-02B and EU-02C; and
 - (3) 0.00416 pounds of NOx per cubic foot of natural gas for 808, HHP4 and PI.
- (c) Compliance with the limits in (a) and (b) will insure that the NOx emissions from the entire source, including insignificant activities, will not exceed two hundred and fifty (250) tons per year and makes the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration) not applicable.

D.2.2 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 their control devices.

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

D.2.3 Visible Emissions Notations

- (a) Visible emissions notations of the engine test cell stack exhausts (801 through 808, HHP1 through HHP3, PD1, PD2, TC-11.1, TC-11.2) shall be performed once per day during normal daylight operations when combusting diesel fuel. 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 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.

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

D.2.4 Record Keeping Requirements

- (a) To document compliance with condition D.2.1, 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 fuel oil usage for EU-02A, EU-02B, and EU-02C 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 compliance with condition D.2.3, the Permittee shall maintain records of daily visible emission notations of the stack exhausts listed, when combusting diesel fuel.
- (c) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.2.5 Reporting Requirements

A quarterly summary of the information to document compliance with condition D.2.1 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. The report submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

SECTION D.3

FACILITY OPERATION CONDITIONS

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

- (e) 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.

(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 Sulfur Dioxide (SO₂) [326 IAC 7-1.1-1] [326 IAC 7-2-1]

Pursuant to 326 IAC 7-1.1 (SO₂ Emissions Limitations) the SO₂ 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.3.3 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.

Compliance Determination Requirements

D.3.4 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.

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

D.3.5 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 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.

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 compliance with condition D.3.2, 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 compliance with condition D.3.5, 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.

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 or 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.

**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
Mailing 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
Mailing 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

<input type="checkbox"/> This is an emergency as defined in 326 IAC 2-7-1(12) <input type="checkbox"/> 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 <input type="checkbox"/> 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 DATA SECTION**

**PART 70 OPERATING PERMIT
SEMI-ANNUAL NATURAL GAS FIRED BOILER CERTIFICATION**

[Applicable for boilers greater than or equal to 10 MMBtu/hr that can burn both natural gas and other fuels. The natural gas fired boiler certification is not required for boilers that can physically only burn natural gas.]

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 Renewal No.: T071-21065-00015

<input type="checkbox"/> Natural Gas Only <input type="checkbox"/> Alternate Fuel burned From: _____ To: _____
--

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:

A certification by the responsible official as defined by 326 IAC 2-7-1(34) is required for this report.

**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
 Mailing Address: 800 East Third Street, Seymour, Indiana 47274
 Part 70 Permit Renewal 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 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: Fifteen (15) engine test cells, known as EU-02A, EU-02B and EU-02C
 Parameter: Diesel fuel and natural gas
 Limit: Fuel usage per twelve (12) consecutive month period total, equivalent to 217.9 tons of NO_x per year calculated by the following equation:

$$\text{NO}_x \text{ emissions} = (\text{Diesel fuel burned by EU-02A}) \times (0.427 \text{ lbs of NO}_x/\text{gal of diesel fuel}) \div (2000 \text{ lbs/ton}) + (\text{Diesel fuel burned by EU-02B and EU-02C}) \times (0.155 \text{ lbs of NO}_x/\text{gal of diesel fuel}) \div (2000 \text{ lbs/ton}) + (\text{Natural gas burned by 808, HHP4 and PI}) \times (0.00416 \text{ lbs of NO}_x/\text{ft}^3 \text{ of natural gas}) \div (2000 \text{ lbs/ton}) \text{ at a natural gas heat content of } 1,020 \text{ MMBtu/ft}^3$$

YEAR: _____

Month	This Month			Previous 11 Months			12 Month Total		
	EU-02 Diesel Fuel (gallons)		EU-02 Equivalent NO _x (tons) A + (B + C)	EU-02 Diesel Fuel (gallons)		EU-02 Equivalent NO _x (tons) A + (B + C)	EU-02 Diesel Fuel (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 NO _x Emissions from Diesel Fuel & Natural Gas	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 OPERATING PERMIT
 QUARTERLY DEVIATION AND COMPLIANCE MONITORING 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 Renewal No.: T071-21065-00015

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

<p>This report shall be submitted quarterly based on a calendar year. Any deviation from the requirements, 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".</p>	
<input type="checkbox"/> NO DEVIATIONS OCCURRED THIS REPORTING PERIOD.	
<input type="checkbox"/> 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 to complete this report.

Indiana Department of Environmental Management Office of Air Quality

Technical Support Document (TSD) for a Part 70 Operating Permit Renewal

Source Background and Description

Source Name:	Cummins Industrial Center
Source Location:	800 East Third Street, Seymour, Indiana 47274
County:	Jackson
SIC Code:	3519
Operation Permit No.:	071-7679-00015
Operation Permit Issuance Date:	January 9, 2001
Permit Renewal No.:	071-21065-00015
Permit Reviewer:	Melissa Groch

The Office of Air Quality (OAQ) has reviewed a Part 70 Operating Permit Renewal application from Cummins Industrial Center relating to the operation of a stationary internal combustion engine manufacturing plant, of which the testing and painting of the product is included.

Permitted Emission Units and Pollution Control Equipment

The source consists of the following permitted 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, with a maximum combined usage of 142.14 gallons of diesel fuel per hour, or 23.69 gallons per hour each, consisting of the following equipment:
 - (1) Three (3) diesel-powered production engine test cells, identified as 801, 802, and 803, exhausting to stacks 801, 802, and 803, respectively, with maximum outputs of 765 hp and heat inputs of 3.08 MMBtu per hour each;
 - (2) Two (2) diesel-powered production engine test cells, identified as 804 and 805, exhausting to stacks 804 and 805, respectively, with maximum outputs of 1,500 hp and heat inputs of 3.08 MMBtu per hour each; and
 - (3) One (1) diesel-powered or natural gas-fired production engine test cell, identified as 808, exhausting to stack 808, with a maximum output of 1,500 hp when combusting diesel oil or natural gas, heat input of 3.08 MMBtu per hour when combusting diesel oil and 2.68 MMBtu per hour when combusting natural gas.

- (c) Eight (8) engineering engine test cells, identified as EU-02B, installed in 1978, with a maximum combined usage of 314.4 gallons of diesel fuel per hour, or 39.3 gallons each, consisting of the following equipment:
- (1) Two (2) diesel-powered engineering engine test cells, identified as 806 and 807, exhausting to stacks 806 and 807, respectively, with a maximum outputs of 1,350 hp and heat inputs of 5.11 MMBtu per hour each;
 - (2) Two (2) diesel-powered engineering engine test cells, identified as HHP1 and HHP2, exhausting to stacks HHP1 and HHP2, respectively, with a maximum outputs of 3,600 hp and heat inputs of 5.11 MMBtu per hour each;
 - (3) One (1) diesel-powered engineering engine test cell, identified as HHP3, exhausting to stack HHP3, with a maximum output of 3,150 hp and heat input of 5.11 MMBtu per hour;
 - (4) One (1) diesel-powered engineering test cell, identified as HHP5, exhausting to stack HHP5, with a maximum output of 1,350 hp and heat input of 5.11 MMBtu per hour;
 - (5) One (1) diesel-powered or natural gas-fired outside engine test pad, identified as PI, exhausting to stacks PD1 and PD2, with a maximum output of 6,700 hp when combusting diesel oil or natural gas, and a heat input of 5.11 MMBtu per hour when combusting diesel oil or 4.44 MMBtu per hour when combusting natural gas; and
 - (6) One (1) diesel-powered or natural gas-fired engineering engine test cell, identified as HHP4, exhausting to stack HHP4, with a maximum output of 1,350 hp when combusting diesel oil or natural gas, and a heat input of 5.11 MMBtu per hour when combusting diesel oil or 4.44 MMBtu per hour when combusting natural gas.
- (d) One (1) diesel-powered engineering engine test cell, identified as EU-02C, installed in 2005, exhausting to stacks TC-11.1 and TC-11.2, with a maximum output of 3,500 hp and heat input of 21.37 MMBtu per hour, and usage of 164.47 gallons of diesel fuel per hour.
- (e) 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.

Unpermitted Emission Units and Pollution Control Equipment

There are no known unpermitted emission units operating at this source during this review process.

Insignificant Activities

The source also consists of the following insignificant activities, as defined in 326 IAC 2-7-1(21):

- (a) Space heaters, process heaters, or boilers using the following fuels:
 - (1) Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) British thermal units per hour.
 - (2) Fuel oil-fired combustion sources with heat input equal to or less than two million (2,000,000) British thermal units per hour and firing fuel containing less than five-tenths (0.5) percent sulfur by weight.
- (b) A gasoline fuel transfer and dispensing operation handling less than or equal to 1,300 gallons per day, such as filling of tanks, locomotives, automobiles, having a storage capacity less than or equal to 10,500 gallons.
- (c) A petroleum fuel, other than gasoline, dispensing facility, having a storage capacity of less than or equal to 10,500 gallons, and dispensing less than or equal to 230,000 gallons per month.
- (d) The following VOC and HAP storage containers: Vessels storing lubricating oil, hydraulic oils, machining oils, and machining fluids.
- (e) Application of oils, greases lubricants or other nonvolatile materials applied as temporary protective coatings.

- (f) Machining where an aqueous cutting coolant continuously floods the machining interface.
- (g) Degreasing operations that do not exceed 145 gallons per 12 months, except if subject to 326 IAC 20-6. [326 IAC 8-3]
- (h) Cleaners and solvents characterized as follows:
 - (1) having a vapor pressure equal to or less than 2 kiloPascals; 15 millimeters of mercury; or 0.3 pounds per square inch measured at 38°C (100°F) or;
 - (2) having a vapor pressure equal to or less than 0.7 kiloPascals; 5 millimeters of mercury; or 0.1 pounds per square inch measured at 20°C (68°F); the use of which for all cleaners and solvents combined does not exceed 145 gallons per 12 months.
- (i) 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]
- (j) Any operation using aqueous solutions containing less than 1 percent by weight of VOCs excluding HAPs.
- (k) Noncontact cooling tower systems with the following: Forced and induced draft cooling tower system not regulated under a NESHAP.
- (l) Replacement or repair of electrostatic precipitators, bags in baghouses and filters in other air filtration equipment.
- (m) Paved and unpaved roads and parking lots with public access.
- (n) Blowdown for any of the following: sight glass; boiler; compressors; pumps; and cooling tower.
- (o) Other emergency equipment as follows: Stationary fire pumps.
- (p) 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]
- (q) A laboratory as defined in 326 IAC 2-7-1(21)(D).
- (r) One (1) 25,000 gallon No.2 diesel storage tank, constructed in 1998. [326 IAC 12] [40 CFR 60.116b, Subpart Kb]
- (s) Three (3) 10,000 gallon No.2 diesel storage tanks, constructed in 2005.

Existing Approvals

The source has been operating under the following previous approvals:

- (a) Initial Part 70 Operating Permit, 071-7679-00015, issued January 9, 2001;
- (b) First Significant Permit Modification, 071-14023-00015, issued May 15, 2001;
- (c) Second Significant Permit Modification, 071-14467-00015, issued November 7, 2001;
- (d) First Significant Source Modification, 071-15326-00015, issued June 11, 2002;
- (e) Third Significant Permit Modification, 071-15679-00015, issued June 25, 2002;
- (f) First Administrative Amendment, 071-17138-00015, issued April 29, 2003;
- (g) Second Significant Source Modification, 071-19569-00015, issued January 21, 2005;

(h) Fourth Significant Permit Modification, 071-20060-00015, issued March 8, 2005;

(i) Second Administrative Amendment, 071-20910-00015, issued May 24, 2005.

All terms and conditions of previous permits issued pursuant to permitting programs approved into the state implementation plan have been either incorporated as originally stated, revised, or deleted by this permit. All previous permits are superseded by this permit.

All conditions from previous approvals were incorporated into this Part 70 operating permit renewal, except for the following:

(a) Condition: Condition D.1.2 for particulate at spray booths EU-01A, EU-01B, EU-01C, EU-01D and EU-01F has been replaced by the new updated 326 IAC 6-3-2.

Reason not incorporated: 326 IAC 6-3-2 has been amended to include a provision for surface coating particulate under part (d) of the rule. This requirement is under Emission Limitations and Standards as condition D.1.2.

(b) Condition: Condition D.2.2 for Nonattainment New Source Review Minor Limit for unit EU-02C which stated that the total amount of diesel fuel delivered to EU-02C, shall not exceed 514,838 gallons per twelve (12) consecutive month period, with compliance determined at the end of each month. NOx emissions from EU-02C shall not exceed 0.155 pounds of NOx per gallon of diesel fuel burned. Compliance with these limitations will limit NOx emissions from EU-02C to less than 40.0 tons per twelve (12) consecutive month period, and thus render the requirements of nonattainment area new source review not applicable.

Reason not incorporated: This condition has been deleted because the source requested to remain minor under 326 IAC 2-2, and EU-02C was placed under the entire source NOx emission limit of 250 tons per year in condition D.2.1.

Enforcement Issue

At the time of this review, there were no enforcement actions pending.

Recommendation

The staff recommends to the Commissioner that the Part 70 permit be approved. This recommendation is based on the following facts and conditions:

Unless otherwise stated, information used in this review was derived from the application and additional information submitted by the applicant.

An administratively complete Part 70 permit renewal application for the purposes of this review was received on April 4, 2005.

There was no notice of completeness letter mailed to the Permittee.

Emission Calculations

No new equipment was included in the Part 70 operating permit renewal application. Calculations are found in Appendix A of this TSD, pages 1 to 6 of 6.

Potential to Emit of the Source

Pursuant to 326 IAC 2-1.1-1(16), Potential to Emit is defined as "the maximum capacity of a stationary source 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."

The source was issued a Part 70 Operating Permit on January 9, 2001. The table below summarizes the potential to emit, reflecting all limits, of the emission units. Any control equipment is considered enforceable only after issuance of the original Part 70 Operating Permit and only to the extent that the effect of the control equipment is made practically enforceable in the permit.

Process/emission unit	*Potential to Emit (tons/year)						
	PM	PM-10	SO ₂	VOC	CO	NO _x	HAPs (single, comb.)
Surface Coating EU-01: A, C, D (1986), B (1995)	0.063	0.063	n/a	67.2	n/a	n/a	6.99, 18.99
Engine Test Cells EU-02: A & B (1978), C (2005)	17.5	17.5	16.4	15.3	53.6	217.9	2.10, 4.64
Boilers EU-03: A, B (1978)	1.31	1.31	46.45	0.51	7.70	26.2	0.33, 0.35
Insignificant Activities	10.1	10.5	0.04	3.33	4.98	5.93	0.11, 0.11
Total PTE	< 250	< 250	< 250	< 250	< 250	< 250	< 10, < 25

*The PTE for a unit or process is based on limits established in the permit, or unrestricted operation if the unit is not constrained by a limit.

- (a) The potential to emit (as defined in 326 IAC 2-7-1(29)) of the criteria pollutants are equal to or greater than 100 tons per year. Therefore, the source is subject to the provisions of 326 IAC 2-7.
- (b) The potential to emit (as defined in 326 IAC 2-7-1(29)) of any single HAP is equal to or greater than ten (10) tons per year and/or the potential to emit (as defined in 326 IAC 2-7-1(29)) of a combination of HAPs is equal to or greater than twenty-five (25) tons per year. Therefore, the source is subject to the provisions of 326 IAC 2-7. Therefore, the source is subject to the provisions of 326 IAC 2-7. See the State Rule Applicability - Entire Source section.
- (c) Fugitive Emissions
 Since this type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-2, the fugitive particulate matter (PM) and volatile organic compound (VOC) emissions are not counted toward determination of PSD and Emission Offset applicability.

Actual Emissions

The following table shows the actual emissions from the source. This information reflects the 2005 OAQ emission data.

Pollutant	Actual Emissions (tons/year)
PM	Not reported
PM-10	13
SO ₂	11
VOC	16
CO	38
NO _x	192
HAP (specify)	Not reported

County Attainment Status

The source is located in Jackson County. Jackson County was designated as maintenance for the 8-hour ozone standard on October 25, 2006.

Pollutant	Status
PM-2.5	Attainment
PM-10	Attainment
SO ₂	Attainment
NO ₂	Attainment
8 - hour Ozone	Attainment
CO	Attainment
Lead	Attainment

- (a) Volatile organic compounds (VOC) and nitrogen oxides (NO_x) 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 NO_x emissions are considered when evaluating the rule applicability relating to the ozone standards. Jackson County has been designated as attainment or unclassifiable for ozone. Therefore, VOC and NO_x emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2. See the State Rule Applicability - Entire Source section.

- (b) Jackson County has been classified as attainment for PM_{2.5}. U.S. EPA has not yet established the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2 for PM_{2.5} emissions. Therefore, until the U.S. EPA adopts specific provisions for PSD review for PM_{2.5} emissions, it has directed states to regulate PM₁₀ emissions as surrogate for PM_{2.5} emissions. See the State Rule Applicability - Entire Source section.
- (c) Jackson County has been classified as attainment or unclassifiable for all other criteria pollutants. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2. See the State Rule Applicability - Entire Source section.
- (d) Fugitive Emissions
Since this type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-2 or 326 IAC 2-3, fugitive emissions are not counted toward the determination of PSD.

Part 70 Permit Conditions

This source is subject to the requirements of 326 IAC 2-7, pursuant to which the source has to meet the following:

- (a) Emission limitations and standards, including those operational requirements and limitations that assure compliance with all applicable requirements at the time of issuance of Part 70 permits.
- (b) Monitoring and related record keeping requirements which assume that all reasonable information is provided to evaluate continuous compliance with the applicable requirements.

Federal Rule Applicability

- (a) The 25,000 gallon No.2 diesel storage tank, constructed in November 1998, is subject to the New Source Performance Standard 326 IAC 12 (40 CFR 60.110, Subpart Kb) because its capacity is greater than 40 cubic meters and it was constructed after the applicability date of July 23, 1984.
- (b) The New Source Performance Standard 326 IAC 12 (40 CFR 60.110, Subpart Kb) is not included in this operating permit for the three 10,000 gallon No.2 diesel storage tanks, because they have capacities of less than 40 cubic meters each and were constructed in 2005, after the applicability date of July 23, 1984.
- (c) There are no other New Source Performance Standards (NSPS)(326 IAC 12 and 40 CFR Part 60) included in this Part 70 operating permit renewal.
- (d) The requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAPs) for Stationary Reciprocating Internal Combustion Engines (40 CFR 63, Subpart ZZZZ) for the one (1) diesel powered engineering engine test cell, known as EU-02C, is not included in this Part 70 operating permit renewal because pursuant to 40 CFR 63.6585, the internal combustion engine is being tested at a stationary engine test cell.
- (e) The requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAPs) for Industrial, Commercial, and Institutional Boilers and Process Heaters (40 CFR 63, Subpart DDDDD) for the two (2) natural gas and No.2 fuel oil boilers, known collectively as EU-03, are not included in this Part 70 operating permit renewal because pursuant to 40 CFR 63.6585, these boilers are considered existing large gas and liquid units, and therefore, have no requirements.
- (f) The requirements of the National Emission Standards for Hazardous Air Pollutants for Engine Test Cells/Standards (40 CFR 63.9280, Subpart PPPPP) are not included in this Part 70 operating permit renewal because Cummins Industrial Center is an existing affected source, and the addition of the one (1) diesel powered engineering engine test cell, known as EU-02C, is not a reconstruction as defined in 40 CFR 63.2. Pursuant to 40 CFR 63.9290(b), existing affected sources do not have to meet the requirements of 40 CFR 63 Subpart A or 40 CFR 63 Subpart PPPPP.
- (g) This Part 70 operation permit renewal does involve a pollutant-specific emissions unit as defined in 40 CFR 64.1 that has the potential to emit before controls equal to or greater than the major source threshold for NO_x, and is subject to an emission limitation or standard for that pollutant, and the emission unit does not use a control device as defined in 40 CFR Part 64.1 to comply with that emission limitation or standard. Therefore, the

requirements of 40 CFR Part 64, Compliance Assurance Monitoring (CAM), are not included in this Part 70 operating permit renewal.

(h) Paint Spray Line, EU-01:

- (1) 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.
- (2) 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. Because of these limits, the requirements of the National Emission Standards for Hazardous Air Pollutants for the Surface Coating of Miscellaneous Metal Parts and Products (40 CFR 63, Subpart Mmmm) are not included in this operating permit.

State Rule Applicability - Entire Source

326 IAC 2-2

This source was an existing minor source under PSD because Jackson County was attainment for all criteria pollutants, except the 8-hour ozone standard, and source wide NO_x emissions were limited to less than two hundred fifty (250) tons per year. In 2005, the addition of test cell EU-02C was placed under this limit at the request of the source so that the source wide NO_x emissions remain below two hundred fifty (250) tons per year.

326 IAC 1-5-2 (Emergency Reduction Plans)

The source submitted an Emergency Reduction Plan (ERP) on December 13, 1996. The ERP has been verified to fulfill the requirements of 326 IAC 1-5-2 (Emergency Reduction Plans).

326 IAC 2-4.1-1 (New Source Air Toxics Control)

This source was constructed prior to July 27, 1997. As a result, the requirements of 326 IAC 2-4.1-1 are not included in this Part 70 operating permit renewal.

326 IAC 2-6 (Emission Reporting)

Pursuant to 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:

- (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.

326 IAC 5-1 (Opacity Limitations)

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

State Rule Applicability - Individual Facilities

Surface Coating

326 IAC 6-3 (Particulate Emission Limitations for Manufacturing Processes)

Pursuant to 326 IAC 6-3-2 (Particulate emission limitations, work practices, and control technologies), part (d), the particulate from the paint spray line (EU-01) and the top coat spray booth (EU-01B) shall be controlled by a dry filter, waterwash, or an equivalent control device, and the Permittee shall operate the control device in accordance with manufacturer's specifications. The booths that are a part of paint spray line (EU-01) and the top coat spray booth (EU-01B) are each controlled by dry filters.

To demonstrate compliance with 326 IAC 6-3-2(d), the dry filters for particulate control shall be in operation in accordance with manufacturer's specifications and control particulate from the paint spray line (EU-01) and the top coat spray booth (EU-01B) at all times these booths are in operation.

326 IAC 8-2-9 (Miscellaneous Metal Coating Operations)

- (a) 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.
- (b) 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.

Engine Test Cells

326 IAC 2-2 (PSD Minor Limit)

- (a) The total diesel fuel combusted by the fifteen (15) engine test cells, known as EU-02A, EU-02B, and EU-02C shall not exceed the amount calculated by the following equation, equivalent to NOx emissions of 217.9 tons per twelve (12) consecutive month period.

$$\text{NOx emissions} = \frac{(\text{Diesel fuel burned by EU-02A}) \times (0.427 \text{ lbs of NOx/gal of diesel fuel}) \div (2000 \text{ lbs/ton}) + (\text{Diesel fuel burned by EU-02B and EU-02C}) \times (0.155 \text{ lbs of NOx/gal of diesel fuel}) \div (2000 \text{ lbs/ton}) + (\text{Natural gas burned by 808, HHP4 and PI}) \times (0.00416 \text{ lbs of NOx/ft}^3 \text{ of natural gas}) \div (2000 \text{ lbs/ton})}{\text{at a natural gas heat content of } 1,020 \text{ MMBtu/ft}^3}$$

- (b) The NOx emissions shall not exceed:
 - (1) 0.427 pounds of NOx per gallon of diesel fuel for EU-02A;
 - (2) 0.155 pounds of NOx per gallon of diesel fuel for EU-02B and EU-02C; and
 - (3) 0.00416 pounds of NOx per cubic foot of natural gas for 808, HHP4 and PI.
- (c) Compliance with the limits in (a) and (b) will insure that the NOx emissions from the entire source, including insignificant activities, will not exceed two hundred and fifty (250) tons per year and makes the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration) not applicable.

326 IAC 6-3 (Particulate Emission Limitations for Manufacturing Processes)

Pursuant to 326 IAC 1-2-59 ("Process weight; weight rate" definition), solid fuels charged will be considered as part of the process weight but liquid and gaseous fuels and combustion air will not. Because the engine test cells combust liquid fuel, they are not considered as process weight, and therefore 326 IAC 6-3-2 (Particulate emission limitations, work practices, and control technologies) is not included in this permit for the engine test cells.

Boilers

326 IAC 6-2-3 (Particulate emission limitations for sources of indirect heating)

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.

Pursuant to 326 IAC 6-2-3(a), the boilers, known as EU-03A and EU-03B, installed in 1978, must comply with the particulate matter emission rate specified by the following equation. The total heat input capacity for the source at this time is 41.8 MMBtus per hour heat input.

$$Pt = (C \times a \times h) \div (76.5 \times Q^{0.75} \times N^{0.25})$$

where:

Pt = Pounds of particulate matter emitted per million British thermal unit (lb/MMBtu) heat input.

Q = Total source maximum operating capacity rating in million British thermal units per hour (MMBtu/hr) heat input. The maximum operating capacity rating is defined as the maximum capacity at which the facility is operated or the nameplate capacity, whichever is specified in the facility's permit application, except when some lower capacity is contained in the facility's operation permit; in which case, the capacity specified in the operation permit shall be used.

C = Maximum ground level concentration with respect to distance from the point source at the "critical" wind speed for level terrain. This shall equal fifty (50) micrograms per cubic meter for a period not to exceed a sixty (60) minute time period.

N = Number of stacks in fuel burning operation.

a = Plume rise factor which is used to make allowance for less than theoretical plume rise. The value 0.67 shall be used for Q less than or equal to 1,000 million British thermal units per hour heat input.

h = Stack height in feet. If a number of stacks of different heights exist, the average stack height will be computed using a weighted average of stack heights.

Therefore:

$$Pt = (50 \mu\text{g}/\text{m}^3 \times 0.67 \times 40 \text{ ft}) \div (76.5 \times 41.8^{0.75} \times 2^{0.25}) = 0.896 \text{ lb PM/MMBtu}$$

Pursuant to 326 IAC 6-2-3 (e), particulate emissions from any facility used for indirect heating which has 250 million British thermal units per hour heat input or less and which began operation after June 8, 1972, shall in no case exceed six-tenths 0.6 pound per million British thermal unit heat input. Therefore, the particulate emissions from each boiler will not exceed six-tenths 0.6 lb/MMBtu heat input.

The worst case potential particulate matter emissions of the boilers while combusting fuel oil are calculated in Appendix A (page 5 of 6) and is as follows:

The potential particulate matter emissions of the boilers are shown on pages 10 and 11 of 11 of TSD Appendix A and is as follows:

$$Pt = [(1.31 \text{ tons of PM/yr} \times 2000 \text{ lbs/t}) \div 8760 \text{ hours per year}] \div 20.9 \text{ MMBtu/hr}$$
$$Pt = 0.0143 \text{ lb PM/MMBtu}$$

Because 0.0143 lb/MMBtu is less than 0.6 lb/MMBtu, the boilers demonstrate compliance with this rule.

326 IAC 7-1.1-1, 326 IAC 7-2-1 (Sulfur Dioxide (SO₂))

Pursuant to 326 IAC 7-1.1 (SO₂ Emissions Limitations) the SO₂ emissions from each of the two (2) boilers, 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.

Insignificant Activities

326 IAC 6-3-2 (Particulate emission limitations, work practices, and control technologies)

The particulate matter (PM) from the brazing equipment, cutting torches, soldering equipment, welding equipment, as well as the grinding and machining operations shall not exceed the allowable emission rate of particulate matter per hour as determined by the following:

Interpolation and extrapolation of the data for the process weight rate up to sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:

$$E = 4.10 P^{0.67} \quad \text{where } E = \text{rate of emission in pounds per hour and} \\ P = \text{process weight rate in tons per hour}$$

Interpolation and extrapolation of the data for the process weight rate in excess of 60,000 pounds per hour shall be accomplished by use of the equation:

$$E = 55.0 P^{0.11} - 40 \quad \text{where } E = \text{rate of emission in pounds per hour; and} \\ P = \text{process weight rate in tons per hour}$$

326 IAC 8-3-2 (Cold Cleaner Operations)

Pursuant to 326 IAC 8-3-2 (Cold Cleaner Operations), 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.

326 IAC 8-3-5 (Cold Cleaner Degreaser Operation and Control)

(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 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 or 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 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.

326 IAC 20-6 (Halogenated Solvent Cleaning)

The degreaser is not subject to this rule and 40 CFR 63 Subpart T since it does not use any halogenated solvents.

Testing Requirements

As noted in the original Part 70 operating permit, standard emission factors were used to determine emission calculations for all engine test cells, as well as boilers. As a result, no testing has been, or will be required.

Compliance Requirements

Permits issued under 326 IAC 2-7 are required to ensure that sources can demonstrate compliance with applicable state and federal rules on a more or less continuous basis. All state and federal rules contain compliance provisions, however, these provisions do not always fulfill the requirement for a more or less 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 requirements are divided into two sections: Compliance Determination Requirements and Compliance Monitoring Requirements.

Compliance Determination Requirements in Section D of the permit are those conditions that are found more or less directly within state and federal rules and the violation of which serves as grounds for enforcement action. If these conditions 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.

The compliance monitoring requirements applicable to this source are as follows:

Emission unit and/or control	Parameter	Frequency	Range	Excursions and Exceedances
Surface Coating Dry Filters	Coating Emissions	Daily Filter Inspections, Weekly Overspray Observations, Monthly Stack Inspections	Filter Integrity, Overspray from Stacks, Presence of Overspray on Rooftops and Nearby Ground	Response Steps
Engine Test Cells EU-02	Visible Emissions	Daily During Combustion of Diesel Fuel	Normal-Abnormal	Response Steps
Boilers EU-03	Visible Emissions	Daily During Combustion of Fuel Oil	Normal-Abnormal	Response Steps

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

Conclusion

The operation of this stationary internal combustion engine manufacturing plant, of which the testing and painting of the product is included, shall be subject to the conditions of this Part 70 operating permit T071-21065-00015.

Appendix A: Summary of Emissions

Company Name: Cummins Industrial Center
Plant Location: 800 East Third Street, Seymour, IN 47274
Part 70 Renewal: T 071-21065-00015
Plt ID: 071-00015
Permit Reviewer: Melissa Groch
Date: July 2006

Emission Point	Source	Potential Emissions Before Controls (tons/yr)							
		PM	PM-10	NOx	CO	SO2	VOC	HAPs	
								Single	Combined
EU-01A	One (1) Primer Spray Booth	27.20	27.20	n/a	n/a	n/a	23.20	7.26	7.51
EU-01B	One (1) Top Coat Spray Booth	24.40	24.40	n/a	n/a	n/a	23.30	5.44	5.77
EU-01C	One (1) Touch-Up Spray Booth	6.80	6.80	n/a	n/a	n/a	15.40	3.84	10.39
EU-01D	One (1) Offline Booth	4.35	4.35	n/a	n/a	n/a	5.21	1.62	3.87
C	Fifteen (15) Engine Test Cells	115.60	115.60	590.90	353.60	108.00	134.10	4.68	10.17
EU-03	Two (2) Boilers (worst case fuel)	1.31	1.31	26.20	7.70	46.45	0.51	0.33	0.35
	Insignificant Activities	10.10	10.50	5.93	4.98	0.04	3.33	0.11	0.11
Potential Emissions Totals:		189.8	190.2	623.0	366.3	154.5	205.0	23.3	38.2

Emission Point	Source	Limited Emissions After Controls (tons/yr)							
		PM	PM-10	NOx	CO	SO2	VOC	HAPs	
								Single	Combined
EU-01A	One (1) Primer Spray Booth	0.0272	0.0272	n/a	n/a	n/a	23.20	6.99	18.99
EU-01B	One (1) Top Coat Spray Booth	0.0244	0.0244	n/a	n/a	n/a	23.30		
EU-01C	One (1) Touch-Up Spray Booth	0.00680	0.00680	n/a	n/a	n/a	15.40		
EU-01D	One (1) Offline Booth	0.00435	0.00435	n/a	n/a	n/a	5.21		
C	Fifteen (15) Engine Test Cells	17.50	17.50	217.90	53.60	16.40	15.30	2.10	4.64
EU-03	Two (2) Boilers (worst case fuel)	1.31	1.31	26.20	7.70	46.45	0.51	0.33	0.35
	Insignificant Activities	10.10	10.50	5.93	4.98	0.04	3.33	0.11	0.11
Limited Emissions Totals:		29.0	29.4	250.0	66.3	62.9	86.2	9.5	24.1

In April 2006, the Permittee requested that HAPs from the paint spray line be limited to less than 10 for a single HAP, and less than 20 for a combination of HAPs. As a result, and in combination with the limits for the engine test cells, and potential HAPs from the boilers and natural gas fired insignificant activities, the spray booth HAPs have been limited to less than seven (7) tons per year for a single HAP, and less than nineteen (19) tons per year for a combination of HAPs.

Methodology:

The spray booth coatings do not emit NOx, CO, or SO2.

The spray booth limited PM/PM-10 emissions are based on the dry filter control efficiency.

Previous to this renewal, NOx emissions were limited below 250 tons per year in order to render the requirements of 326 IAC 2-2 (PSD) not applicable for the entire source.

As a result, the EU-02A through C are limited to emit no more than 217.9 tons/yr of Nox emissions combined.

VOC and Particulate
From Paint Spray Line EU-01

Company Name: Cummins Industrial Center
 Plant Location: 800 East Third Street, Seymour, IN 47274
 Part 70 Renewal: T 071-21065-00015
 Pit ID: 071-00015
 Permit Reviewer: Melissa Groch
 Date: July 2006

Material	Density (lb/gal)	Weight % Volatile (H2O & Organics)	Weight % Water	Weight % Organics	Volume % Water	Volume % Non-Vol (solids)	Gallon Material (gal/unit)	Maximum (unit/hour)	lb VOC /gal of coating less water	lb VOC /gal of coating	Potential				lb VOC /gal solids	Trans. Eff.
											VOC (lbs/hr)	VOC (lbs/day)	VOC (t/yr)	PM (t/yr)		
EU-01A (Primer Booth)(c1986)																
Beige Aqua-Zen Air Dry Primer (06532TWP)	9.66	57.1%	38.9%	18.3%	45.1%	31.1%	1.00	3.00	3.21	1.76	5.29	127	23.2	27.2	5.67	50%
Worst Case Coating:											5.29	127	23.2	27.2		
EU-01B (Topcoat Booth)(c1995)																
Euclid Green (09727GWA)	8.99	67.6%	51.8%	15.8%	55.9%	33.6%	1.00	3.00	3.22	1.42	4.26	102	18.6	19.1	4.23	50%
Natural Yellow Aqua (09631YWA)	8.74	66.4%	46.1%	20.3%	48.4%	33.6%	1.00	3.00	3.44	1.78	5.33	128	23.3	19.3	5.29	50%
Onan Green (09799GWA)	8.82	68.7%	51.4%	17.3%	54.4%	24.8%	1.00	3.00	3.35	1.53	4.59	110	20.1	18.1	6.17	50%
Marine Gray (09790AWA)	9.41	60.5%	42.8%	17.7%	48.3%	27.0%	1.00	3.00	3.22	1.66	4.99	120	21.8	24.4	6.16	50%
94 Titanium Black Aqua Zen (0994KWA)	8.49	67.1%	48.5%	18.6%	49.5%	32.9%	1.00	3.00	3.12	1.58	4.73	114	20.7	18.3	4.80	50%
Beige Aqua-Zen Semi-Gloss Enamel (9677TW)	9.49	62.1%	44.3%	17.8%	50.5%	37.9%	1.00	3.00	3.42	1.69	5.07	122	22.2	23.6	4.47	50%
Red Aqua Zen Enamel (09669RWA)	8.82	66.4%	46.7%	19.7%	49.4%	33.6%	1.00	3.00	3.44	1.74	5.21	125	22.8	19.5	5.17	50%
Worst Case Coating:											5.33	128	23.3	24.4		
EU-01C (Touchup Booth)(c1986)																
Marine Gray (09790AWA)	9.41	60.5%	42.8%	17.7%	48.3%	27.0%	0.250	3.00	3.22	1.66	1.25	29.9	5.46	6.11	6.16	50%
Onan Green (09799GWA)	8.82	68.7%	51.4%	17.3%	54.4%	24.8%	0.250	3.00	3.35	1.53	1.15	27.5	5.02	4.54	6.17	50%
Marine Gray Spray (ITO3824517)	6.19	68.5%	0.00%	68.5%	0.00%	13.1%	0.188	3.00	4.24	4.24	2.39	57.2	10.4	2.40	32.4	50%
Beige Aqua-Zen Air Dry Primer (06532TWP)	9.66	57.1%	38.9%	18.3%	45.1%	31.1%	0.250	3.00	3.21	1.76	1.32	31.7	5.79	6.80	5.67	50%
Cummins Beige Primer (spray) (20000)	6.44	69.7%	0.00%	69.7%	0.00%	17.7%	0.188	3.00	4.49	4.49	2.52	60.6	11.1	2.40	25.4	50%
94 Titanium Black Aqua Zen (0994KWA)	8.49	67.1%	48.5%	18.6%	49.5%	32.9%	0.250	3.00	3.12	1.58	1.18	28.4	5.18	4.59	4.80	50%
Beige Aqua-Zen Semi-Gloss Enamel (9677TW)	9.49	62.1%	44.3%	17.8%	50.5%	37.9%	0.250	3.00	3.42	1.69	1.27	30.4	5.56	5.90	4.47	50%
Titanium Black Spray (ITO3824514)	6.10	68.0%	0.00%	68.0%	0.00%	19.7%	0.188	3.00	4.15	4.15	2.33	56.0	10.2	2.40	21.1	50%
Cummins Beige Spray Enamel (3375378)	6.43	83.1%	10.0%	73.1%	7.72%	15.0%	0.250	3.00	5.09	4.70	3.52	84.6	15.4	1.79	31.3	50%
Red Spray (ITO3885910)	6.18	67.5%	0.00%	67.5%	0.00%	11.9%	0.188	3.00	4.17	4.17	2.35	56.3	10.3	2.47	35.1	50%
Onan Green Spray (0382-4043)	6.12	66.4%	0.100%	66.3%	0.070%	11.8%	0.188	3.00	4.06	4.06	2.28	54.8	10.0	2.53	34.4	50%
Natural Yellow Spray (ITO3824992)	6.07	66.9%	0.100%	66.8%	0.070%	11.7%	0.188	3.00	4.06	4.05	2.28	54.7	9.99	2.48	34.7	50%
Euclid Green Spray (ITO3824989)	6.12	67.6%	0.100%	67.5%	0.070%	10.9%	0.188	3.00	4.13	4.13	2.32	55.8	10.2	2.44	37.9	50%
Worst Case Coating:											3.52	84.6	15.4	6.80		
EU-01D (Offline Booth)(c1986)																
Onan Green (09799GWA)	8.82	68.7%	51.4%	17.3%	54.4%	24.8%	1.00	0.670	3.35	1.53	1.02	24.6	4.49	4.05	6.17	50%
Titanium Black Spray (ITO3824514)	6.10	68.0%	0.00%	68.0%	0.00%	19.7%	0.188	0.670	4.15	4.15	0.521	12.5	2.28	0.537	21.1	50%
Cummins Beige Spray Enamel (3375378)	6.43	83.1%	10.0%	73.1%	7.72%	15.0%	0.188	0.670	5.09	4.70	0.590	14.2	2.58	0.300	31.3	50%
94 Titanium Black Aqua Zen (0994KWA)	8.49	67.1%	48.5%	18.6%	49.5%	32.9%	1.00	0.670	3.12	1.58	1.06	25.4	4.63	4.10	4.80	50%
Beige Aqua-Zen Semi-Gloss Enamel (9677TW)	9.49	62.1%	44.3%	17.8%	50.5%	37.9%	1.00	0.670	3.42	1.69	1.13	27.2	4.96	5.27	4.47	50%
Yellow Kamatsu (9720YWA-1)	9.48	62.5%	45.6%	16.9%	51.9%	26.6%	1.00	0.670	3.33	1.60	1.07	25.7	4.70	5.22	6.01	50%
Beige Aqua-Zen Air Dry Primer (06532TWP)	9.66	57.1%	38.9%	18.3%	45.1%	31.1%	1.00	0.670	3.21	1.76	1.18	28.3	5.17	6.08	5.67	50%
Cummins Beige Primer (spray) (20000)	6.44	69.7%	0.00%	69.7%	0.00%	17.7%	0.188	0.670	4.49	4.49	0.564	13.5	2.47	0.537	25.4	50%
Euclid Green (09727GWA)	8.99	67.6%	51.8%	15.8%	55.9%	33.6%	1.00	0.670	3.22	1.42	0.950	22.8	4.16	4.27	4.23	50%
Marine Gray (09790AWA)	9.41	60.5%	42.8%	17.7%	48.3%	27.0%	1.00	0.670	3.22	1.66	1.11	26.7	4.88	5.46	6.16	50%
Onan Green Spray (0382-4043)	6.12	66.4%	0.100%	66.3%	0.070%	11.8%	0.188	0.670	4.06	4.06	0.510	12.2	2.23	0.57	34.4	50%
Marine Gray Spray (ITO3824517)	6.19	68.5%	0.00%	68.5%	0.00%	13.1%	0.188	0.670	4.24	4.24	0.533	12.8	2.33	0.54	32.4	50%
Red Aqua Zen Enamel (09669RWA)	8.82	66.4%	46.7%	19.7%	49.4%	33.6%	1.00	0.670	3.44	1.74	1.16	27.9	5.10	4.35	5.17	50%
Natural Yellow Aqua (09631YWA)	8.74	66.4%	46.1%	20.3%	48.4%	33.6%	1.00	0.670	3.44	1.78	1.19	28.6	5.21	4.30	5.29	50%
Red Spray (ITO3885910)	6.18	67.5%	0.00%	67.5%	0.00%	11.9%	0.188	0.670	4.17	4.17	0.524	12.6	2.30	0.553	35.1	50%
Natural Yellow Spray (ITO38274992)	6.07	66.9%	0.100%	66.8%	0.070%	11.7%	0.188	0.670	4.06	4.05	0.509	12.2	2.23	0.553	34.7	50%
Euclid Green Spray (ITO3824989)	6.12	67.6%	0.100%	67.5%	0.070%	10.9%	0.188	0.670	4.13	4.13	0.519	12.5	2.27	0.546	37.9	50%
Kamatsu Yellow Spray (3823874)	6.11	67.3%	0.100%	67.2%	0.070%	10.0%	0.188	0.670	4.11	4.11	0.516	12.4	2.26	0.550	41.1	50%
Worst Case Coating:											1.19	28.6	5.21	4.35		

VOC			PM
(lbs/hr)	(lbs/day)	(t/yr)	(t/yr)
15.3	368	67.2	62.8

Total Potential Emissions (worst case coating) from EU-01:

Dry Filter PM Control Efficiency = **99.9%**

Total Controlled Particulate Emissions (worst case coating) from EU-01: **0.06**

Methodology:

Pounds of VOC per Gallon Coating less Water = (Density (lb/gal) * Weight % Organics) / (1-Volume % water)

Pounds of VOC per Gallon Coating = (Density (lb/gal) * Weight % Organics)

Potential VOC Pounds per Hour = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr)

Potential VOC Pounds per Day = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr) * (24 hr/day)

Potential VOC Tons per Year = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr) * (8760 hr/yr) * (1 ton/2000 lbs)

Particulate Potential Tons per Year = (units/hour) * (gal/unit) * (lbs/gal) * (1- Weight % Volatiles) * (1-Transfer efficiency) *(8760 hrs/yr) *(1 ton/2000 lbs)

Pounds VOC per Gallon of Solids = (Density (lbs/gal) * Weight % organics) / (Volume % solids)

Total = Worst Case Coating + Sum of all solvents used

Appendix A: State Potential Emissions Calculations
HAPs
From Surface Coating Operations

Company Name: Cummins Industrial Center
Plant Location: 800 East Third Street, Seymour, IN 47274
Part 70 Renewal: T 071-21065-00015
Pit ID: 071-00015
Permit Reviewer: Melissa Groch
Date: July 2006

Material	Density (lb/gal)	Gal of Mat (gal/unit)	Maximum (unit/hour)	Weight %								Emissions (tons/yr)										
				Xylene	Toluene	Antimony	Ethyl Benzene	Nickel Compounds	Hexane	Glycol Ethers	Cobalt Compounds	Xylene	Toluene	Antimony	Ethyl Benzene	Nickel Compound	Hexane	Glycol Ethers	Cobalt Compounds			
EU-01A (Primer Booth)(1986)				Worst Case HAPs Coating:								0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Beige Aqua-Zen Air Dry Primer (06532TWP)	9.66	1.00	3.00	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	5.72%	0.198%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.26	0.25	
EU-01B (Topcoat Booth)(1995)				Worst Case HAPs Coating:								0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Euclid Green (09727GWA)	8.99	1.00	3.00	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	4.61%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.44	0.00	
Natural Yellow Aqua (09631YWA)	8.74	1.00	3.00	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	4.48%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.14	0.00	
Onan Green (09799GWA)	8.82	1.00	3.00	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	4.43%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.13	0.00	
Marine Gray (09790AWA)	9.41	1.00	3.00	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	3.22%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.98	0.00	
94 Titanium Black Aqua Zen (0994KWA)	8.49	1.00	3.00	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	3.49%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.89	0.00	
Beige Aqua-Zen Semi-Gloss Enamel (9677TWA-1)	9.49	1.00	3.00	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	3.02%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.77	0.00	
Red Aqua Zen Enamel (09669RWA)	8.82	1.00	3.00	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	3.15%	0.288%	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.65	0.33	
Worst Case HAPs Coating:				Worst Case HAPs Coating:								0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
EU-01C (Touchup Booth)(1986)				Worst Case HAPs Coating:								0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Marine Gray (09790AWA)	9.41	0.250	3.00	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	3.22%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.99	0.00	
Onan Green (09799GWA)	8.82	0.250	3.00	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	4.43%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.28	0.00	
Marine Gray Spray (ITO3824517)	6.19	0.188	3.00	5.00%	15.0%	0.00%	0.00%	0.00%	0.00%	15.0%	0.00%	0.00%	0.76	2.29	0.00	0.00	0.00	0.00	0.00	2.29	0.00	
Beige Aqua-Zen Air Dry Primer (06532TWP)	9.66	0.250	3.00	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	5.72%	0.198%	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.81	0.06	
Cummins Beige Primer (spray) (20000)	6.44	0.188	3.00	10.0%	10.0%	0.00%	5.00%	0.00%	0.00%	0.00%	0.00%	0.00%	1.59	1.59	0.00	0.79	0.00	0.00	0.00	0.00	0.00	
94 Titanium Black Aqua Zen (0994KWA)	8.49	0.250	3.00	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	3.49%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.97	0.00	
Beige Aqua-Zen Semi-Gloss Enamel (9677TWA-1)	9.49	0.250	3.00	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	3.02%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.94	0.00	
Titanium Black Spray (ITO3824514)	6.10	0.188	3.00	5.00%	15.0%	0.00%	0.00%	0.00%	15.0%	0.00%	0.00%	0.75	2.25	0.00	0.00	0.00	0.00	0.00	2.25	0.00	0.00	
Cummins Beige Spray Enamel (3375378)	6.43	0.250	3.00	5.10%	9.56%	0.00%	0.360%	0.00%	18.2%	0.00%	0.00%	1.08	2.02	0.00	0.08	0.00	0.00	0.00	3.84	0.00	0.00	
Red Spray (ITO3885910)	6.18	0.188	3.00	5.00%	15.0%	0.00%	0.00%	0.00%	15.0%	0.00%	0.00%	0.76	2.28	0.00	0.00	0.00	0.00	0.00	2.28	0.00	0.00	
Onan Green Spray (0382-4043)	6.12	0.188	3.00	5.00%	15.0%	0.00%	0.00%	0.00%	15.0%	0.00%	0.00%	0.75	2.26	0.00	0.00	0.00	0.00	0.00	2.26	0.00	0.00	
Natural Yellow Spray (ITO3824992)	6.07	0.188	3.00	5.00%	15.0%	0.00%	0.00%	0.00%	15.0%	0.00%	0.00%	0.75	2.24	0.00	0.00	0.00	0.00	0.00	2.24	0.00	0.00	
Euclid Green Spray (ITO3824989)	6.12	0.188	3.00	5.00%	15.0%	0.00%	0.00%	0.00%	15.0%	0.00%	0.00%	0.75	2.26	0.00	0.00	0.00	0.00	0.00	2.26	0.00	0.00	
Worst Case HAPs Coating:				Worst Case HAPs Coating:								1.59	2.29	0.00	0.79	0.00	0.00	0.00	0.00	3.84	1.81	0.06
EU-01D (Offline Booth)(1986)				Worst Case HAPs Coating:								0.35	0.51	0.46	0.18	0.15	0.51	1.62	0.08	0.00	0.00	0.00
Onan Green (09799GWA)	8.82	1.00	0.670	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	4.43%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.15	0.00	
Titanium Black Spray (ITO3824514)	6.10	0.188	0.670	5.00%	15.0%	0.00%	0.00%	0.00%	15.0%	0.00%	0.00%	0.17	0.50	0.00	0.00	0.00	0.00	0.00	0.50	0.00	0.00	
Cummins Beige Spray Enamel (3375378)	6.43	0.188	0.670	5.10%	9.56%	0.00%	0.360%	0.00%	18.2%	0.00%	0.00%	0.18	0.34	0.00	0.01	0.00	0.00	0.00	0.64	0.00	0.00	
94 Titanium Black Aqua Zen (0994KWA)	8.49	1.00	0.670	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	3.49%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.87	0.00	0.00	
Beige Aqua-Zen Semi-Gloss Enamel (9677TWA-1)	9.49	1.00	0.670	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	3.02%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.84	0.00	0.00	
Yellow Kamatsu (9720YWA-1)	9.48	1.00	0.670	0.00%	0.00%	1.67%	0.00%	0.555%	0.00%	0.00%	0.285%	0.00	0.00	0.46	0.00	0.15	0.00	0.00	0.00	0.08	0.08	
Beige Aqua-Zen Air Dry Primer (06532TWP)	9.66	1.00	0.670	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	5.72%	0.198%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.62	0.06	
Cummins Beige Primer (spray) (20000)	6.44	0.188	0.670	10.0%	10.0%	0.00%	5.00%	0.00%	0.00%	0.00%	0.00%	0.35	0.35	0.00	0.18	0.00	0.00	0.00	0.00	0.00	0.00	
Euclid Green (09727GWA)	8.99	1.00	0.670	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	4.61%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.21	0.00	
Marine Gray (09790AWA)	9.41	1.00	0.670	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	3.22%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.89	0.00	0.00	
Onan Green Spray (0382-4043)	6.12	0.188	0.670	5.00%	15.0%	0.00%	0.00%	0.00%	15.0%	0.00%	0.00%	0.17	0.51	0.00	0.00	0.00	0.00	0.00	0.51	0.00	0.00	
Marine Gray Spray (ITO3824517)	6.19	0.188	0.670	5.00%	15.0%	0.00%	0.00%	0.00%	15.0%	0.00%	0.00%	0.17	0.51	0.00	0.00	0.00	0.00	0.00	0.51	0.00	0.00	
Red Aqua Zen Enamel (09669RWA)	8.82	1.00	0.670	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	3.15%	0.288%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.81	0.07	0.00	
Natural Yellow Aqua (09631YWA)	8.74	1.00	0.670	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	4.48%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	1.15	0.00	0.00	
Red Spray (ITO3885910)	6.18	0.188	0.670	5.00%	15.0%	0.00%	0.00%	0.00%	15.0%	0.00%	0.00%	0.17	0.51	0.00	0.00	0.00	0.00	0.00	0.51	0.00	0.00	
Natural Yellow Spray (ITO3824992)	6.07	0.188	0.670	5.00%	15.0%	0.00%	0.00%	0.00%	15.0%	0.00%	0.00%	0.17	0.50	0.00	0.00	0.00	0.00	0.00	0.50	0.00	0.00	
Euclid Green Spray (ITO3824989)	6.12	0.188	0.670	5.00%	15.0%	0.00%	0.00%	0.00%	15.0%	0.00%	0.00%	0.17	0.51	0.00	0.00	0.00	0.00	0.00	0.51	0.00	0.00	
Kamatsu Yellow Spray (ITO3823874)	6.11	0.188	0.670	5.00%	15.0%	0.00%	0.00%	0.00%	15.0%	0.00%	0.00%	0.17	0.50	0.00	0.00	0.00	0.00	0.00	0.50	0.00	0.00	
Worst Case HAPs Coating:				Worst Case HAPs Coating:								0.35	0.51	0.46	0.18	0.15	0.51	1.62	0.08	0.00	0.00	0.00
											Xylene	Toluene	Antimony	Ethyl Benzene	Nickel Compounds	Hexane	Glycol Ethers	Cobalt Compounds				
Worst Case HAPs Coatings Total:											1.94	2.80	0.46	0.97	0.15	4.35	16.13	0.73				

Single Worst Case HAP Potential Total from EU-01: 16.13
Combined Worst Case HAPs Potential Total from EU-01: 27.54

For the Methodology see page 2 of 6.

Appendix A: Emission Calculations
Potential and Limited Emissions - Production and Engineering Engine Test Cells

Company Name: Cummins Industrial Center
Plant Location: 800 East Third Street, Seymour, IN 47274
Part 70 Renewal: T 071-21065-00015
Plt ID: 071-00015
Permit Reviewer: Melissa Groch
Date: July 2006

Unit ID	Source	Potential	
		Fuel Used (gal/year)	MMBtu/yr
EU-02A	6 Production Engine Test Cells (c1978)		
801, 802, 803	3-765 HP Engine Test Cells	622573	80872
804, 805, 808	3-1500 HP Engine Test Cells	622573	80872
EU-02A Potential:		1,245,146.40	161,745

Limited	
Fuel Used (gal/year)	MMBtu/yr
622573	80872
622573	80872

Unit ID	Source	Potential	
		Fuel Used (gal/year)	MMBtu/yr
EU-02B	8 Engineering Engine Test Cells (c1978)		
806, 807	2-1350 HP Engine Test Cells	688536	89441
HHP4, HHP5	2-1350 HP Engine Test Cells	688536	89441
HHP3	1-3150 HP Engine Test Cell	344268	44720
HHP1, HHP2	2-3600 HP Engine Test Cells	688536	89441
PI	1-6700 HP Engine Test Cell	344268	44720
EU-02B Potential:		2,754,144.00	357,763

Limited	
Fuel Used (gal/year)	MMBtu/yr
688536	89441
688536	89441
344268	44720
688536	89441
344268	44720
Limited Total:	721,413 93,712

Unit ID	Source	Potential	
		Fuel Used (gal/year)	MMBtu/yr
EU-02C	1 Engineering Engine Test Cell (c2005)		
EU-02C	1-3500 HP Engine Test Cell	1440757	187154
EU-02C Potential:		1,440,757.20	187,154

Limited	
Fuel Used (gal/year)	MMBtu/yr
2881514	374309
Limited Total:	102,500 13,315

Total Combined Potential: **5,440,047.60 706,662.18** Limited Total: **823,913 107,026**

	NOx Emission Factors from Source Stack Testing	Potential tons/yr NOx	Limited tons/yr NOx
EU-02A	0.427 (lb NOx/gal oil)	265.8	154.0
EU-02B	0.155 (lb NOx/gal oil)	213.4	55.9
EU-02C	0.155 (lb NOx/gal oil)	111.7	7.9
Total:		590.9	217.9

808, HHP4, and PI each burn natural gas, however for the purposes of these calculations, the worst case fuel for NOx is used which is fuel oil.

Emission Factor (lb/gal combusted)	Pollutant					
	PM	PM10	SO2	NOx	VOC	CO
	0.0425	0.0425	0.0397	See Above	0.0493	0.1300
Potential Emissions in tons/yr	115.6	115.6	108.0	590.9	134.1	353.6
Limited Emissions in tons/yr	17.5	17.5	16.4	217.9	20.3	53.6

Emission Factor (lb/MMBtu)	HAPs							
	Benzene	1,3 Butadiene	Formaldehyde	Acrolein	PAH	Toluene	Xylene	Acetaldehyde
	0.000933	0.000039	0.001180	0.00340	0.000500	0.00041	0.00029	0.000767
Potential Emissions in tons/yr	1.11	0.05	1.62	4.68	0.69	0.56	0.39	1.06
EU-02A through C Limited Emissions in tons/yr	0.38	0.02	0.49	1.40	0.21	0.17	0.12	0.32

Highest single potential HAP total from oil combustion: **4.68** Total Potential Combined HAPs: **10.17** (tons/yr)
 Highest single limited HAP total from oil combustion: **1.40** Total Limited Combined HAPs: **3.10** (tons/yr)

Methodology:

Criteria Pollutant Emission factors were taken from the FIRE 6.2 Database, SCC# 2-02-001-02.

A limit was placed on the usage of diesel fuel to restrict NOx emissions to less than 250 tpy.

1.0 gallon diesel fuel = 0.1299 MMBtu

(c1978) indicates construction during 1978, dates for individual cells may vary.

The HAPs emission factors were supplied by Cummins Industrial Center.

Appendix A: Emissions Calculations

**No.2 Fuel Oil
MM BTU/HR <100
Small Industrial Boilers**

Company Name: Cummins Industrial Center
Plant Location: 800 East Third Street, Seymour, IN 47274
Part 70 Renewal: T 071-21065-00015
Pit ID: 071-00015
Permit Reviewer: Melissa Groch
Date: July 2006

Two Boilers, EU-03 (c1978)

Heat Input Capacity (MMBtu/hr)	Potential Throughput (kgals/yr)	S = Weight % Sulfur
41.8	2618	0.05

No.2 Fuel Oil	Pollutant				
	PM*	SO2	NOx	VOC	CO
Emission Factor (lb/kgal)	2.00	7.10 (142.0S)	20.0	0.340	5.00
Potential Emissions (t/yr)	2.62	9.29	26.2	0.4	6.5

Note: Worst case potential emissions between natural gas and oil are bolded.

HAPs - Metals					
	Arsenic	Beryllium	Cadmium	Chromium	Lead
Emission Factor (lb/10 ¹² Btu)	4	3	3	3	9
Potential Emissions (t/yr)	0.000733	0.000550	0.000550	0.000550	0.001649

HAPs - Metals (continued)				
	Mercury	Manganese	Nickel	Selenium
Emission Factor (lb/10 ¹² Btu)	3	6	3	15
Potential Emissions (t/yr)	0.000550	0.001100	0.000550	0.002749

Total Potential Combined HAPs (tons/yr):	0.00898
Total Potential Single HAP (tons/yr):	0.00275

Methodology:

1.0 gallon of No.2 Fuel Oil has a heating value of 140,000 Btu
 Potential Throughput (kgals/yr) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1kgal per 1000 gal x 1 gal per 0.140 MMBtu
 Potential Emissions (tons/year) = Throughput (mmBtu/hr)*Emission Factor (lb/mmBtu)*8,760 hrs/yr / 2,000 lb/ton
 Emission (tons/yr) = Throughput (kgals/ yr) x Emission Factor (lb/kgal)/2,000 lb/ton
 Emission Factors are from AP 42, Chapter 1.3 (9/98), Tables 1.3-1 (Boilers <100 Million Btu/hr), 1.3-2 (No.2 oil fired), 1.3-3 (Commercial/institutional/residential combustors- Distillate oil fired), and 1.3-10.
 *PM emission factor is filterable PM only. Condensable PM emission factor is 1.3 lb/kgal.
 No data was available in AP-42 for organic HAPs.

Natural Gas Combustion
MM BTU/HR <100
Small Industrial Boilers & Insignificant Activities

Company Name: Cummins Industrial Center
Plant Location: 800 East Third Street, Seymour, IN 47274
Part 70 Renewal: T 071-21065-00015
Pit ID: 071-00015
Permit Reviewer: Melissa Groch
Date: July 2006

	Heat Input Capacity (MMBtu/hr)	Potential Throughput (MMCF/yr)
Two Boilers, EU-03 (c1978): 41.8	41.8	366.5
Eight Heaters: 1.30		
Air Curtain: 0.12		
Two Dryers: 3.00		
Four Booth Dryers: 8.8608		
Dock Heater: 0.25		
Insignificant MMBtu Total: 13.5308	13.53	118.53

Natural Gas	Pollutant					
	PM	PM10	SO2	NOx	VOC	CO
Emission Factor in lb/MMCF	1.90	7.60	0.6	100.0 *see below	5.5	84.0
Boilers' Potential Emissions in t/yr	0.348	1.39	0.110	18.3	1.01	15.4
Insig. MMBtu Potential Emissions in t/yr	0.113	0.450	0.036	5.926	0.326	4.978

Note: Worst case potential emissions between natural gas and oil are bolded.

HAPs - Organics

	Benzene	Dichloro-benzene	Formaldehyde	Hexane	Toluene
Emission Factor in lb/MMCF	2.1E-03	1.2E-03	7.5E-02	1.8E+00	3.4E-03
Boilers' Potential Emissions in t/yr	0.000385	0.000220	0.0137	0.330	0.000623
Insig. MMBtu Potential Emissions in t/yr	0.000124	0.000071	0.004445	0.106677	0.000202

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
Boilers' Potential Emissions in t/yr	0.0000916	0.000202	0.000257	0.0000696	0.000385
Insig. MMBtu Potential Emissions in t/yr	0.0000296	0.0000652	0.0000830	0.0000225	0.0001245

	EU-03	Insignificant MMBtus
Total Potential Combined HAPs (ton/yr):	0.346	0.112
Total Potential Single HAP (ton/yr):	0.330	0.107

Methodology:

Btus of Heaters = one at 40,000; one at 100,000; two at 125,000; two at 250,000; and two at 205,000
 Btus of Dryers = two at 1,500,000
 Btus of Booth Dryers = one at 1,360,800; and three at 250,000
 All emission factors are based on normal firing.
 MMBtu = 1,000,000 Btu
 MMCF = 1,000,000 Cubic Feet of Gas
 Emission Factors for NOx: Uncontrolled = 100, Low NOx Burner = 50, Low NOx Burners/Flue gas recirculation = 32
 PM emission factors are condensable and filterable.
 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
 Emission Factors are from AP 42, Chapter 1.4 (7/98), Tables 1.4-1 (Small Boilers (<100)), 1.4-2, 1.4-3, and 1.4-4
 The five highest organic and metal HAPs emission factors are provided above.
 Additional HAPs emission factors are available in AP-42, Chapter 1.4, Table 1.4-4.