



Joseph E. Kernan
Governor

Lori F. Kaplan
Commissioner

April 1, 2004

100 North Senate Avenue
P.O. Box 6015
Indianapolis, Indiana 46206-6015
(317) 232-8603
(800) 451-6027
www.in.gov/idem

TO: Interested Parties / Applicant

RE: Jasper Engine Exchange, Inc. / T-037-17555-00089

FROM: Paul Dubenetzky
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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- (1) the name and address of the person making the request;
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- (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

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INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We make Indiana a cleaner, healthier place to live.

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PART 70 OPERATING PERMIT RENEWAL OFFICE OF AIR QUALITY

Jasper Engine Exchange, Inc. 815 Wernsing Road Jasper, Indiana 47547

(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.

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Issued by: Original signed by Janet McCabe Janet G. McCabe, Assistant Commissioner Office of Air Quality	Issuance Date: April 1, 2004 Expiration Date: April 1, 2009

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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 engine, transmission and differential parts remanufacturing plant.

Responsible Official:	Vice President
Source Address:	815 Wernsing Road, Jasper, Indiana 47547
Mailing Address:	P. O. Box 650, Jasper, IN 47547-0650
General Source Phone Number:	(812) 482-1041
SIC Code:	3714
County Location:	Dubois
Source Location Status:	Attainment for all criteria pollutants
Source Status:	Part 70 Permit Program Minor Source, 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) air atomization paint spray booth constructed in 1965, identified as Engine Booth, capable of painting a maximum of thirty (30) units per hour, using dry filters for overspray control, and exhausting through one (1) stack, identified as PTB001;
- (b) one (1) air atomization paint spray booth constructed in 1978, identified as Stern Drive Booth, capable of painting a maximum of three (3) units per hour, using dry filters for overspray control, and exhausting through one (1) stack, identified as PTB002;
- (c) one (1) air atomization paint spray booth constructed in 1994, identified as Radiator Booth, capable of painting a maximum of ten (10) units per hour, using dry filters for overspray control, and exhausting through one (1) stack, identified as PTB003;
- (d) one (1) air atomization paint spray booth constructed in 1970, identified as Diesel Engine Booth, capable of painting a maximum of three (3) units per hour, using dry filters for overspray control, and exhausting through one (1) stack, identified as PTB004;
- (e) one (1) air atomization paint spray booth constructed in 1965, identified as Transmission Booth, capable of painting a maximum of twenty (20) units per hour, using dry filters for overspray control, and exhausting through one (1) stack, identified as PTB005;
- (f) one (1) air atomization paint spray booth, constructed in 2003, identified as PTB-007, capable of painting a maximum of thirty (30) units per hour, using dry filters for overspray control, and exhausting through one (1) stack, identified as PB007;
- (g) thirteen (13) natural gas fired reciprocating internal combustion engines, identified as ACO008 through ACO011, CGN001 through CGN008 and CGN011, each with a rated heat input of 0.725 million British thermal units per hour (mmBtu/hr) and a rated output of 102 horse power (HP);

- (h) three (3) #2 diesel fuel fired reciprocating internal combustion engines, identified as DYN001 through DYN003, each with a rated heat input of 10.5 mmBtu/hr and a rated output of 1500 HP;
- (i) one (1) #2 diesel fuel fired reciprocating internal combustion engine, identified as DYN004, with a rated heat input of 3.5 mmBtu/hr and a rated output of 500 HP;
- (j) one (1) natural gas fired reciprocating internal combustion engine, identified as DYN033, with a rated heat input of 1.75 mmBtu/hr and a rated output of 250 HP;
- (k) one (1) natural gas fired reciprocating internal combustion engine, identified as DYN008, using gasoline as back-up fuel, with a rated heat input of 3.5 mmBtu/hr and a rated output of 500 HP;
- (l) two (2) natural gas fired reciprocating internal combustion engines, identified as DYN010 and DYN018, each with a rated heat input of 0.84 mmBtu/hr and a rated output of 120 HP;
- (m) one (1) natural gas fired reciprocating internal combustion engine, identified as DYN028, using gasoline as back-up fuel, with a rated heat input of 10.5 mmBtu/hr and a rated output of 1500 HP;
- (n) two (2) baghouses, identified as DUC051 and DUC052, each with a gas flow rate of greater than 4,000 actual cubic foot per minute, for controlling grinding and machining operations with an uncontrolled potential particulate emissions of greater than 25 pounds per day; and
- (o) one (1) soda blasting unit, identified as BLA-037, equipped with a baghouse for particulate control, identified as BLA-037, exhausting inside the building, capacity: 60 units 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) Natural gas-fired combustion sources with heat input equal to or less than ten (10) million Btu per hour:
 - (1) one (1) natural gas fired boiler, rated at 4.5 mmBtu/hr, constructed in 1993; [326 IAC 6-1-2]
- (b) thirteen (13) degreasing units, identified as D271-CLT21, D264-CLT054, G266-CLT056, I261, T264-CLT095, T263-CLT137, G273-CLT017, G274-CLT019, G271-CLT043, D262-CLT080, G264-CLT083, G276-CLT042 and T268-CLT0126, constructed after July 1, 1990; [326 IAC 8-3-5]
- (c) five (5) degreasing units, identified as G263-CLT038, G272-CLT018, D268-CLT020, D270-PEQ011 and D265-CLT053, constructed after January 1, 1980 and prior to July 1, 1990; [326 IAC 8-3-2]
- (d) five (5) baghouses, identified as BLA007, BLA009, BLA011, BLA017 and BLA018, each with design outlet grain loading of less than or equal to 0.03 grains per actual cubic foot and a gas flow rate of less than or equal to 4,000 actual cubic foot per minute, for controlling the sand blasting operations; [326 IAC 6-1-2]

- (e) five (5) baghouses, identified as DUC001, DUC002, DUC015, DUC021 and DUC027 each with design outlet grain loading of less than or equal to 0.03 grains per actual cubic foot and a gas flow rate of less than or equal to 4,000 actual cubic foot per minute, for controlling the grinding and machining operations, including deburring, buffing, polishing and abrasive blasting; [326 IAC 6-1-2]
- (f) two (2) baghouses (ID Nos. DUC006 and DUC029), each with a gas flow rate of greater than 4,000 actual cubic foot per minute, for controlling grinding and machining operations with uncontrolled potential particulate emissions of less than 25 pounds per day; and [326 IAC 6-1-2]
- (g) twelve (12) natural gas fired reciprocating internal combustion engines, identified as GTS001 through GTS012, each with a rated heat input of 0.088 mmBtu/hr and a rated output of 12.57 HP. [326 IAC 2-2]

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]

This permit 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.

B.3 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.4 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.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.

(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. All certifications shall cover the time period from January 1 to December 31 of the previous year, and shall be submitted in letter form no later than July 1 of each year to:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

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) The Permittee shall implement the PMPs, including any required record keeping, as necessary to ensure that failure to implement a PMP does not cause or contribute to an exceedance of any limitation on emissions or potential to emit.
- (c) 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 PMP does not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (d) 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: 317-233-5674 (ask for Compliance Section)

Facsimile Number: 317-233-5967

- (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, P. O. Box 6015
Indianapolis, Indiana 46206-6015

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) 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 in 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]

- (a) All terms and conditions of previous permits issued pursuant to permitting programs approved into the state implementation plan have been either
 - (1) incorporated as originally stated,
 - (2) revised, or
 - (3) deletedby this permit.
- (b) All previous registrations and permits are superseded by this permit.

B.14 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, P.O. Box 6015
Indianapolis, Indiana 46206-6015

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.15 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.16 Permit Renewal [326 IAC 2-7-4]

- (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, P.O. Box 6015
Indianapolis, Indiana 46206-6015

- (b) Timely Submittal of Permit Renewal [326 IAC 2-7-4(a)(1)(D)]
- (1) A timely renewal application is one that is:
- (A) Submitted at least nine (9) months prior to the date of the expiration of this permit; and
- (B) 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.
- (2) If IDEM, OAQ, upon receiving a timely and complete 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.
- (c) Right to Operate After Application for Renewal [326 IAC 2-7-3]
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.
- (d) United States Environmental Protection Agency Authority [326 IAC 2-7-8(e)]
If IDEM, OAQ fails to act in a timely way on a Part 70 permit renewal, the U.S. EPA may invoke its authority under Section 505(e) of the Clean Air Act to terminate or revoke and reissue a Part 70 permit.

B.17 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, P.O. Box 6015
Indianapolis, Indiana 46206-6015
- 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)]
- (d) No permit amendment or modification is required for the addition, operation or removal of a nonroad engine, as defined in 40 CFR 89.2.

B.18 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.19 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 emissions allowable under 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, P. O. Box 6015
Indianapolis, Indiana 46206-6015

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 which document, on a rolling five (5) year basis, all such changes and emissions trading that are subject to 326 IAC 2-7-20(b), (c), or (e) and makes 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 increases and decreases in emissions in 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.

B.20 Source Modification Requirement [326 IAC 2-7-10.5]

A modification, construction, or reconstruction is governed by the requirements of 326 IAC 2 and 326 IAC 2-7-10.5.

B.21 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.22 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:

Permits Branch, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

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.23 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. 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.
- (c) The Permittee may call the following telephone numbers: 1-800-451-6027 or 317-233-4230 (ask for OAQ, I/M & Billing Section), to determine the appropriate permit fee.

SECTION C SOURCE OPERATION CONDITIONS

Entire Source

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

C.1 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.2 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.3 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.4 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.5 Operation of Equipment [326 IAC 2-7-6(6)]

Except as otherwise provided by statute or 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 units vented to the control equipment are in operation.

C.6 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.

C.7 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M]

- (a) Notification requirements apply to each owner or operator. If the combined amount of regulated asbestos containing material (RACM) to be stripped, removed or disturbed is at least 260 linear feet on pipes or 160 square feet on other facility components, or at least thirty-five (35) cubic feet on all facility components, then the notification requirements of 326 IAC 14-10-3 are mandatory. All demolition projects require notification whether or not asbestos is present.
- (b) The Permittee shall ensure that a written notification is sent on a form provided by the Commissioner at least ten (10) working days before asbestos stripping or removal work or before demolition begins, per 326 IAC 14-10-3, and shall update such notice as necessary, including, but not limited to the following:

- (1) When the amount of affected asbestos containing material increases or decreases by at least twenty percent (20%); or
- (2) If there is a change in the following:
 - (A) Asbestos removal or demolition start date;
 - (B) Removal or demolition contractor; or
 - (C) Waste disposal site.
- (c) The Permittee shall ensure that the notice is postmarked or delivered according to the guidelines set forth in 326 IAC 14-10-3(2).
- (d) The notice to be submitted shall include the information enumerated in 326 IAC 14-10-3(3).

All required notifications shall be submitted to:

Indiana Department of Environmental Management
Asbestos Section, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

The notice shall include a signed certification from the owner or operator that the information provided in this notification is correct and that only Indiana licensed workers and project supervisors will be used to implement the asbestos removal project. The notifications do not require a certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

- (e) **Procedures for Asbestos Emission Control**
The Permittee shall comply with the applicable emission control procedures in 326 IAC 14-10-4 and 40 CFR 61.145(c). Per 326 IAC 14-10-1, emission control requirements are applicable for any removal or disturbance of RACM greater than three (3) linear feet on pipes or three (3) square feet on any other facility components or a total of at least 0.75 cubic feet on all facility components.
- (f) **Demolition and renovation**
The Permittee shall thoroughly inspect the affected facility or part of the facility where the demolition or renovation will occur for the presence of asbestos pursuant to 40 CFR 61.145(a).
- (g) **Indiana Accredited Asbestos Inspector**
The Permittee shall comply with 326 IAC 14-10-1(a) that requires the owner or operator, prior to a renovation/demolition, to use an Indiana Accredited Asbestos Inspector to thoroughly inspect the affected portion of the facility for the presence of asbestos. The requirement to use an Indiana Accredited Asbestos inspector is not federally enforceable.

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

C.8 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, P. O. Box 6015
Indianapolis, Indiana 46206-6015

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.9 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.10 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, P. O. Box 6015
Indianapolis, Indiana 46206-6015

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.11 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.12 Pressure Gauge and Other Instrument Specifications [326 IAC 2-1.1-11] [326 IAC 2-7-5(3)]
[326 IAC 2-7-6(1)]**

- (a) Whenever a condition in this permit requires the measurement of pressure drop across any part of the unit or its control device, the gauge employed shall have a scale such that the expected normal reading shall be no less than twenty percent (20%) of full scale and be accurate within plus or minus two percent ($\pm 2\%$) of full scale reading.
- (b) The Permittee may request the IDEM, OAQ approve the use of a pressure gauge or other instrument that does not meet the above specifications provided the Permittee can demonstrate an alternative pressure gauge or other instrument specification will adequately ensure compliance with permit conditions requiring the measurement of pressure drop or other parameters.

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

C.13 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 March 31, 2003.
- (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.14 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.15 Compliance Response Plan - Preparation, Implementation, Records, and Reports
[326 IAC 2-7-5] [326 IAC 2-7-6]**

- (a) The Permittee is required to prepare a Compliance Response Plan (CRP) for each compliance monitoring condition of this permit. A CRP shall be submitted to IDEM, OAQ upon request. The CRP shall be prepared within ninety (90) days after issuance of this permit by the Permittee, supplemented from time to time by the Permittee, maintained on site, and comprised of:
 - (1) Reasonable response steps that may be implemented in the event that a response step is needed pursuant to the requirements of Section D of this permit; and an expected timeframe for taking reasonable response steps.
 - (2) If, at any time, the Permittee takes reasonable response steps that are not set forth in the Permittee's current Compliance Response Plan and the Permittee documents such response in accordance with subsection (e) below, the Permittee shall amend its Compliance Response Plan to include such response steps taken.
- (b) For each compliance monitoring condition of this permit, reasonable response steps shall be taken when indicated by the provisions of that compliance monitoring condition as follows:
 - (1) Reasonable response steps shall be taken as set forth in the Permittee's current Compliance Response Plan; or
 - (2) If none of the reasonable response steps listed in the Compliance Response Plan is applicable or responsive to the excursion, the Permittee shall devise and

implement additional response steps as expeditiously as practical. Taking such additional response steps shall not be considered a deviation from this permit so long as the Permittee documents such response steps in accordance with this condition.

- (3) If the Permittee determines that additional response steps would necessitate that the emissions unit or control device be shut down, and it will be ten (10) days or more until the unit or device will be shut down, then the permittee shall promptly notify the IDEM, OAQ of the expected date of the shut down. The notification shall also include the status of the applicable compliance monitoring parameter with respect to normal, and the results of the response actions taken up to the time of notification.
 - (4) Failure to take reasonable response steps shall be considered a deviation from the permit.
- (c) The Permittee is not required to take any further response steps for any of the following reasons:
- (1) A false reading occurs due to the malfunction of the monitoring equipment and prompt action was taken to correct the monitoring equipment.
 - (2) The Permittee has determined that the compliance monitoring parameters established in the permit conditions are technically inappropriate, has previously submitted a request for a minor permit modification to the permit, and such request has not been denied.
 - (3) An automatic measurement was taken when the process was not operating.
 - (4) The process has already returned or is returning to operating within "normal" parameters and no response steps are required.
- (d) When implementing reasonable steps in response to a compliance monitoring condition, if the Permittee determines that an exceedance of an emission limitation has occurred, the Permittee shall report such deviations pursuant to Section B-Deviations from Permit Requirements and Conditions.
- (e) The Permittee shall record all instances when, in accordance with Section D, response steps are taken. In the event of an emergency, the provisions of 326 IAC 2-7-16 (Emergency Provisions) requiring prompt corrective action to mitigate emissions shall prevail.
- (f) Except as otherwise provided by a rule or provided specifically in Section D, all monitoring as required in Section D shall be performed when the emission unit is operating, except for time necessary to perform quality assurance and maintenance activities.

C.16 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.17 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]

- (a) The Permittee shall submit an emission statement certified pursuant to the requirements of 326 IAC 2-6. This statement must be received in accordance with the compliance schedule specified in 326 IAC 2-6-3 and must comply with the minimum requirements specified in 326 IAC 2-6-4. The submittal shall cover the period identified in 326 IAC 2-6. The emission statement shall meet the following requirements:
 - (1) Indicate estimated actual emissions of criteria pollutants from the source, in compliance with 326 IAC 2-6 (Emission Reporting);
 - (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 purposes of Part 70 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, P. O. Box 6015
Indianapolis, Indiana 46206-6015

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

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

(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, P. O. Box 6015
Indianapolis, Indiana 46206-6015

(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) Reporting periods are based on calendar years.

Stratospheric Ozone Protection

C.20 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.

Part 2 MACT Application Submittal Requirement

C.21 Application Requirements for Section 112(j) of the Clean Air Act [40 CFR 63.52(e)] [40 CFR 63.56(a)] [40 CFR 63.9(b)] [326 IAC 2-7-12]

(a) The Permittee shall submit a Part 2 MACT Application in accordance with 40 CFR 63.52(e)(1). The Part 2 MACT Application shall meet the requirements of 40 CFR 63.53(b).

(b) Notwithstanding paragraph (a), the Permittee is not required to submit a Part 2 MACT Application if the Permittee no longer meets the applicability criteria of 40 CFR 63.50 by the

application deadline in 40 CFR 63.52(e)(1). For example, the Permittee would not have to submit a Part 2 MACT Application if, by the application deadline:

- (1) The source is no longer a major source of hazardous air pollutants, as defined in 40 CFR 63.2;
 - (2) The source no longer includes one or more units in an affected source category for which the U.S. EPA failed to promulgate an emission standard by May 15, 2002; or
 - (3) The MACT standard or standards for the affected source categories included at the source are promulgated.
- (c) Notwithstanding paragraph (a), pursuant to 40 CFR 63.56(a), the Permittee shall comply with an applicable promulgated MACT standard in accordance with the schedule provided in the MACT standard if the MACT standard is promulgated prior to the Part 2 MACT Application deadline or prior to the issuance of permit with a case-by-case Section 112(j) MACT determination. The MACT requirements include the applicable General Provisions requirements of 40 CFR 63, Subpart A. Pursuant to 40 CFR 63.9(b), the Permittee shall submit an initial notification not later than 120 days after the effective date of the MACT, unless the MACT specifies otherwise. The initial notification shall be submitted to:

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

and

United States Environmental Protection Agency, Region V
Director, Air and Radiation Division
77 West Jackson Boulevard
Chicago, Illinois 60604-3590

SECTION D.1 FACILITY OPERATION CONDITIONS

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

- (a) one (1) air atomization paint spray booth constructed in 1965, identified as Engine Booth, capable of painting a maximum of thirty (30) units per hour, using dry filters for overspray control, and exhausting through one (1) stack, identified as PTB001;
- (b) one (1) air atomization paint spray booth constructed in 1978, identified as Stern Drive Booth, capable of painting a maximum of three (3) units per hour, using dry filters for overspray control, and exhausting through one (1) stack, identified as PTB002;
- (c) one (1) air atomization paint spray booth constructed in 1994, identified as Radiator Booth, capable of painting a maximum of ten (10) units per hour, using dry filters for overspray control, and exhausting through one (1) stack, identified as PTB003;
- (d) one (1) air atomization paint spray booth constructed in 1970, identified as Diesel Engine Booth, capable of painting a maximum of three (3) units per hour, using dry filters for overspray control, and exhausting through one (1) stack, identified as PTB004;
- (e) one (1) air atomization paint spray booth constructed in 1965, identified as Transmission Booth, capable of painting a maximum of twenty (20) units per hour, using dry filters for overspray control, and exhausting through one (1) stack, identified as PTB005;
- (f) one (1) air atomization paint spray booth, constructed in 2003, identified as PTB-007, capable of painting a maximum of thirty (30) units per hour, using dry filters for overspray control, and exhausting through one (1) stack, identified as PTB007;

(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 Volatile Organic Compounds (VOC) Limitations [326 IAC 8-2-9]

Pursuant to 326 IAC 8-2-9, the Permittee shall not allow the discharge into the atmosphere of VOC in excess of three and five-tenths (3.5) pounds of VOC per gallon of coating, excluding water, for forced warm air dried coatings, as delivered to the applicator at the Radiator Booth.

D.1.2 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 of the Radiator Booth 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.1.3 Volatile Organic Compounds (VOC) Limitations [326 IAC 8-1-6] [326 IAC 8-2-9]

- (a) Pursuant T037-7736-00089, issued on December 31, 1998, any change or modification to the Engine, Stern Drive, Diesel Engine or Transmission Booths that may increase the VOC usages to 25 tons per year must be approved by the Office of Air Quality (OAQ) before such change can occur.
- (b) Any change or modification to booth PTB-007 that may increase actual VOC emissions to 15 lbs/day or more must be approved by the Office of Air Quality (OAQ) before such change can occur.

D.1.4 Particulate Matter (PM) (326 IAC 6-1-2)

Pursuant to 326 IAC 6-1-2(a)(Dubois County Particulate Limitations), particulate matter (PM) emissions from the six (6) paint booths (Engine, Stern Drive, Radiator, Diesel Engine, Transmission Booths and PTB-007) shall be limited to 0.03 grains per dry standard cubic foot of exhaust air as follows:

Process/Facility	Exhaust Flow Rate (dscfm)	326 IAC 6-1-2 PM Allowable Emissions (lb/hr)
Engine Booth	18,000	4.63
Stern Drive Booth	9,600	2.47
Radiator Booth	5,300	1.36
Diesel Engine Booth	18,000	4.63
Transmission Booth	18,000	4.63
PTB-007	1,500	0.386

D.1.5 General Provisions Relating to HAPs [326 IAC 20-1][40 CFR Part 63, Subpart A] [Table 2 to 40 CFR Part 63, Subpart M] [40 CFR 63.3901]

- (a) The provisions of 40 CFR Part 63, Subpart A - General Provisions, which are incorporated by reference as 326 IAC 20-1-1, apply to the affected source, except when otherwise specified by Table 2 to 40 CFR Part 63, Subpart M. The Permittee must comply with these requirements on and after August 18, 2006.
- (b) Since the applicable requirements associated with the compliance options are not included and specifically identified in this permit, the permit shield authorized by the B section of this permit in the condition titled Permit Shield, and set out in 326 IAC 2-7-15 does not apply to paragraph (a) of this condition.

D.1.6 National Emission Standards for Hazardous Air Pollutants for Surface Coating of Miscellaneous Metal Parts and Products [40 CFR Part 63, Subpart M] [40 CFR 63.3882] [40 CFR 63.3883] [40 CFR 63.3980]

- (a) The provisions of 40 CFR Part 63, Subpart M (National Emission Standards for Hazardous Air Pollutants for Surface Coating of Miscellaneous Metal Parts and Products) apply to the affected source. A copy of this rule is available on the US EPA Air Toxics Website at <http://www.epa.gov/ttn/atw/misc/miscpg.html>. Pursuant to 40 CFR 63.3883(b), the Permittee must comply with these requirements on and after the date 3 years after the effective date of 40 CFR Part 63, Subpart M.
- (b) Since the applicable requirements associated with the compliance options are not included and specifically identified in this permit, the permit shield authorized by the B section of this permit in the condition titled Permit Shield, and set out in 326 IAC 2-7-15 does not apply to paragraph (a) of this condition.
- (c) The affected source is the collection of all of the items listed in 40 CFR 63.3882, paragraphs (b)(1) through (4) that are used for surface coating of miscellaneous metal parts and products within each subcategory as defined in 40 CFR 63.3881(a), paragraphs (2) through (6).
 - (1) All coating operations as defined in 40 CFR 63.3981;
 - (2) All storage containers and mixing vessels in which coatings, thinners and/or other additives, and cleaning materials are stored or mixed;

- (3) All manual and automated equipment and containers used for conveying coatings, thinners and/or other additives, and cleaning materials; and
 - (4) All storage containers and all manual and automated equipment and containers used for conveying waste materials generated by a coating operation.
- (d) Terminology used in this section are defined in the CAA, in 40 CFR Part 63, Section 63.2, and in 40 CFR 63.3980, which are incorporated by reference.

D.1.7 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.1.8 Volatile Organic Compounds (VOC)

Compliance with the VOC content and usage limitations contained in Conditions D.1.1 and D.1.2 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 reserves the authority to determine compliance using Method 24 in conjunction with the analytical procedures specified in 326 IAC 8-1-4

D.1.9 Particulate Control

In order to comply with D.1.4, the dry filters for particulate control shall be in operation and control emissions from the six (6) paint booths at all times that the booths are in operation.

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

D.1.10 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 booth stacks (PTB001 - PTB005 and PTB007) while one or more of the booths are in operation. The Compliance Response Plan shall be followed whenever a condition exists which should result in a response step. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a deviation from this permit.
- (b) Monthly inspections shall be performed of the coating emissions from the stack and the presence of overspray on the rooftops and the nearby ground. The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when a noticeable change in overspray emission, or evidence of overspray emission is observed. The Compliance Response Plan shall be followed whenever a condition exists which should result in a response step. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a deviation from 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.1.11 Record Keeping Requirements

- (a) To document compliance with Conditions D.1.1 and D.1.2, the Permittee shall maintain records in accordance with (1) through (5) below. Records maintained for (1) through (5) shall be taken monthly and shall be complete and sufficient to establish compliance with the VOC usage limits and/or the VOC emission limits established in Conditions D.1.1 and D.1.2. Records necessary to demonstrate compliance shall be available within 30 days of the end of each compliance period.
- (1) The VOC content of each coating material and solvent used.
 - (2) The amount of coating material and solvent less water used on monthly 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 and those used as cleanup solvents.
 - (3) The cleanup solvent usage for each month;
 - (4) The total VOC usage for each month; and
 - (5) The weight of VOCs emitted for each compliance period.
- (b) To document compliance with Condition D.1.3, the Permittee shall maintain records of the VOC usage.
- (c) To document compliance with Condition D.1.10, 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.1.12 Notification Requirements [40 CFR 63.3910]

- (a) General. The Permittee must submit the applicable notifications in 40 CFR Part 63, Sections 63.7(b) and (c), 63.8(f)(4), and 63.9(b) through (e) and (h) by the dates specified in those sections, except as provided in 40 CFR 63.3910, paragraphs (b) and (c).
- (b) Initial notification. The Permittee must submit the initial notification no later than 1 year after the effective date of 40 CFR Part 63, Subpart M. The Permittee must submit the initial notification no later than 1 year after the effective date of 40 CFR Part 63, Subpart M. The Permittee must submit the initial notification no later than 1 year after the effective date of 40 CFR Part 63, Subpart M.
- (c) Notification of compliance status. The Permittee must submit the notification of compliance status required by 40 CFR 63.9(h) no later than 30 calendar days following the end of the initial compliance period described in 40 CFR Part 63, Sections 63.3940, 63.3950, or 63.3960 that applies to the affected source. The notification of compliance status must contain the information specified in 40 CFR 63.3910(c), paragraphs (1) through (11) and any additional information specified in 40 CFR 63.9(h).

D.1.13 Requirement to Submit a Significant Permit Modification Application [326 IAC 2-7-12][326 IAC 2-7-5]

The Permittee shall submit an application for a significant permit modification to IDEM, OAQ to include information regarding which compliance option or options will be chosen in the Title V permit.

- (a) The significant permit modification application shall be consistent with 326 IAC 2-7-12, including information sufficient for IDEM, OAQ to incorporate into the Title V permit the applicable requirements of 40 CFR 63, Subpart M, a description of the affected source and activities subject to the standard, and a description of how the Permittee will meet the applicable requirements of the standard.
- (b) The significant permit modification application shall be submitted no later than twenty-seven months after the effective date of 40 CFR 63, Subpart M.
- (c) The significant permit modification application shall be submitted to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

SECTION D.2

FACILITY OPERATION CONDITIONS

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

- (g) thirteen (13) natural gas fired reciprocating internal combustion engines, identified as ACO008 through ACO011, CGN001 through CGN008 and CGN011, each with a rated heat input of 0.725 million British thermal units per hour (mmBtu/hr) and a rated output of 102 horse power (HP);
- (h) three (3) #2 diesel fuel fired reciprocating internal combustion engines, identified as DYN001 through DYN003, each with a rated heat input of 10.5 mmBtu/hr and a rated output of 1500 HP;
- (i) one (1) #2 diesel fuel fired reciprocating internal combustion engine, identified as DYN004, with a rated heat input of 3.5 mmBtu/hr and a rated output of 500 HP;
- (j) one (1) natural gas fired reciprocating internal combustion engine, identified as DYN033, with a rated heat input of 1.75 mmBtu/hr and a rated output of 250 HP;
- (k) one (1) natural gas fired reciprocating internal combustion engine, identified as DYN008, using gasoline as back-up fuel, with a rated heat input of 3.5 mmBtu/hr and a rated output of 500 HP;
- (l) two (2) natural gas fired reciprocating internal combustion engines, identified as DYN010 and DYN018, each with a rated heat input of 0.84 mmBtu/hr and a rated output of 120 HP;
- (m) one (1) natural gas fired reciprocating internal combustion engine, identified as DYN028, using gasoline as back-up fuel, with a rated heat input of 10.5 mmBtu/hr and a rated output of 1500 HP;

Insignificant Activities:

- (k) twelve (12) natural gas fired reciprocating internal combustion engines, identified as GTS001 through GTS012, each with a rated heat input of 0.088 mmBtu/hr and a rated output of 12.57 HP. [326 IAC 2-2]

(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 Volatile Organic Compounds (VOC), Nitrogen Oxides (NOx) and Carbon Monoxide (CO) Emissions [326 IAC 2-2]

The source shall limit fuel usages for reciprocating internal combustion engines as follows:

- (a) Natural gas usages for all reciprocating internal combustion engines are limited at 119.7 million standard cubic feet per 12 consecutive month period with compliance determined at the end of each month.
- (b) #2 diesel fuel usages for all reciprocating internal combustion engines are limited at 100,000 gallons per 12 consecutive month period with compliance determined at the end of each month.
- (c) Gasoline usages for all reciprocating internal combustion engines are limited at 10,000 gallons per 12 consecutive month period with compliance determined at the end of each month.

These fuel usage limits shall limit source wide potential to emit of VOC, NOx and CO to less than 250 tons per year each . Therefore, the requirements of 326 IAC 2-2 (PSD) are not applicable.

Compliance Determination Requirements

D.2.2 Fuel Usages

Compliance with Condition D.2.1 shall be determined at the end of each month based on total natural gas, #2 diesel fuel and gasoline usages since last compliance determination period.

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

D.2.3 Record Keeping Requirements

- (a) To document compliance with Condition D.2.1, the Permittee shall maintain records of the monthly natural gas, #2 diesel fuel and gasoline usages by all reciprocating internal combustion engines at the source.
- (b) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.2.4 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)]:

- (n) two (2) baghouses, identified as DUC051 and DUC052, each with a gas flow rate of greater than 4,000 actual cubic foot per minute, for controlling grinding and machining operations with an uncontrolled potential particulate emissions of greater than 25 pounds per day;
- (o) one (1) soda blasting unit, identified as BLA-037, equipped with a baghouse for particulate control, identified as BLA-037, exhausting inside the building, capacity: 60 units 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 [326 IAC 6-1-2]

- (a) Pursuant to 326 IAC 6-1-2, particulate matter emissions from the grinding and machining operations controlled by two (2) baghouses, identified as DUC051 and DUC052, shall each not exceed 0.03 grains per dry standard cubic foot, which is equivalent to 2.44 and 3.86 pounds per hour, respectively.
- (b) Pursuant to 326 IAC 6-1-2, particulate matter emissions from the one (1) soda blasting unit, identified as BLA-037, shall not exceed 0.03 grains per dry standard cubic foot, which is equivalent to 0.154 pounds per hour.

D.3.2 Opacity [326 IAC 2-7-10.5]

Pursuant to T037-7736-00089, issued on December 31, 1998 and 326 IAC 2-7-10.5, there shall be no visible emissions (zero percent opacity) from the one (1) soda blasting unit, identified as BLA-037, when venting inside the building.

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 device.

Compliance Determination Requirement

D.3.4 Particulate Control

In order to comply with D.3.1, the baghouses for particulate control shall be in operation and control emissions from the grinding and machining operations, and the one (1) soda blasting unit (BLA-037) at all times that the units are in operation.

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

D.3.5 Visible Emissions Notations

- (a) Once per shift visible emission notations of the grinding and machining, and the one (1) soda blasting unit (BLA-037) stack exhausts shall be performed during normal daylight operations when exhausting to the atmosphere. 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) The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when an abnormal emission is observed. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a deviation from this permit.

D.3.6 Parametric Monitoring

The Permittee shall record the total static pressure drop across the baghouses used in conjunction with the grinding and machining process, and the one (1) soda blasting unit (BLA-037), at least once per shift when the processes are in operation when exhausting to the atmosphere. When for any one reading, the pressure drop across the baghouse is outside the normal range of 1.0 and 6.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C- Compliance Response Plan - Preparation, Implementation, Records, and Reports. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a deviation from this permit.

The instrument used for determining the pressure shall comply with Section C - Pressure Gauge and Other Instrument Specifications, of this permit, shall be subject to approval by IDEM, OAQ and shall be calibrated at least once every six (6) months.

D.3.7 Baghouse Inspections

An inspection shall be performed each calendar quarter of all bags controlling the grinding and machining process. Inspections required by this condition shall not be performed in consecutive months. All defective bags shall be replaced.

D.3.8 Broken or Failed Bag Detection

In the event that bag failure has been observed:

- (a) For multi-compartment units, the affected compartments will be shut down immediately until the failed units have been repaired or replaced. Within eight (8) business hours of the determination of failure, response steps according to the timetable described in the Compliance Response Plan shall be initiated. For any failure with corresponding response steps and timetable not described in the Compliance Response Plan, response steps shall be devised within eight (8) business hours of discovery of the failure and shall include a timetable for completion. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a violation of this permit. If operations continue after bag failure is observed and it will be 10 days or more after the failure is observed before the failed units will be repaired or replaced, the Permittee shall promptly notify the IDEM, OAQ of the expected date the failed units will be repaired or replaced. The notification shall also include the status of the applicable compliance monitoring parameters with respect to normal, and the results of any response actions taken up to the time of notification.
- (b) For single compartment baghouses, if failure is indicated by a significant drop in the baghouse's pressure readings with abnormal visible emissions or the failure is indicated by an opacity violation, or if bag failure is determined by other means, such as gas temperatures, flow rates, air infiltration, leaks, dust traces or triboflows, then failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

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

D.3.9 Record Keeping Requirements

- (a) To document compliance with Condition D.3.5, the Permittee shall maintain records of visible emission notations of the grinding and machining, and one (1) soda blasting unit stack exhaust once per shift when exhausting to the atmosphere.
- (b) To document compliance with Condition D.3.6, the Permittee shall maintain records once per shift of the total static pressure drop during normal operation when exhausting to the atmosphere.
- (c) To document compliance with Condition D.3.7, the Permittee shall maintain records of the results of the inspections required under Condition D.3.6.
- (d) To document compliance with Condition D.3.3, the Permittee shall maintain records of any additional inspections prescribed by the Preventive Maintenance Plan.
- (e) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

SECTION D.4 FACILITY OPERATION CONDITIONS

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

Insignificant Activities:

- (a) Natural gas-fired combustion sources with heat input equal to or less than ten (10) million Btu per hour:
 - (1) one (1) natural gas fired boiler, rated at 4.5 mmBtu/hr, constructed in 1993; [326 IAC 6-2-4]
- (b) thirteen (13) degreasing units, identified as D271-CLT21, D264-CLT054, G266-CLT056, I261, T264-CLT095, T263-CLT137, G273-CLT017, G274-CLT019, G271-CLT043, D262-CLT080, G264-CLT083, G276-CLT042 and T268-CLT0126, constructed after July 1, 1990; [326 IAC 8-3-5]
- (c) five (5) degreasing units, identified as G263-CLT038, G272-CLT018, D268-CLT020, D270-PEQ011 and D265-CLT053, constructed after January 1, 1980 and prior to July 1, 1990; [326 IAC 8-3-2]
- (d) five (5) baghouses, identified as BLA007, BLA009, BLA011, BLA017 and BLA018, each with design outlet grain loading of less than or equal to 0.03 grains per actual cubic foot and a gas flow rate of less than or equal to 4,000 actual cubic foot per minute, for controlling the sand blasting operations; [326 IAC 6-1-2]
- (e) five (5) baghouses, identified as DUC001, DUC002, DUC015, DUC021 and DUC027 each with design outlet grain loading of less than or equal to 0.03 grains per actual cubic foot and a gas flow rate of less than or equal to 4,000 actual cubic foot per minute, for controlling the grinding and machining operations, including deburring, buffing, polishing and abrasive blasting; [326 IAC 6-1-2]
- (f) two (2) baghouses (ID Nos. DUC006 and DUC029), each with a gas flow rate of greater than 4,000 actual cubic foot per minute, for controlling grinding and machining operations with uncontrolled potential particulate emissions of less than 25 pounds per day. [326 IAC 6-1-2]

(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 Particulate [326 IAC 6-1-2]

Pursuant to 326 IAC 6-1-2 (b)(3) (Particulate Limitations - Dubois County) the PM from the 4.5 MMBtu per hour heat input boiler shall be limited to 0.01 grains per dry standard cubic foot of exhaust air, which is equivalent to 0.86 pounds per hour at an exhaust flow rate of 10,000 dry standard cubic foot.

D.4.2 Particulate Matter (PM) (326 IAC 6-1-2)

Pursuant to 326 IAC 6-1-2(a)(Dubois County Particulate Limitations), particulate matter (PM) emissions from the sand blasting operations controlled by five (5) baghouses, identified as BLA007, BLA009, BLA011, BLA017 and BLA018, and grinding and machining operations controlled by eight baghouses, identified as DUC001, DUC002, DUC006, DUC015, DUC021, DUC027, DUC029 and DUC052 shall each be limited to 0.03 grains per dry standard cubic foot of exhaust air, which is equivalent to the following rates:

ID #	Exhaust Flow Rate (cfm)	Emission Limit (lb/hr)	ID #	Exhaust Flow Rate (cfm)	Emission Limit (lb/hr)
BLA007	420	0.11	DUC002	1,200	0.31
BLA009	1,250	0.32	DUC006	18,000	4.63
BLA011	420	0.11	DUC015	2,200	0.57
BLA017	750	0.19	DUC021	2,000	0.51
BLA018	420	0.11	DUC027	3,000	0.77
DUC001	4,000	1.03	DUC029	6,400	1.65

D.4.3 Volatile Organic Compounds (VOC) [326 IAC 8-3-2]

Pursuant to 326 IAC 8-3-2 (Cold Cleaner Operations), for cold cleaners G263-CLT038, G272-CLT018, D268-CLT020, D270-PEQ011 and D265-CLT053 constructed after January 1, 1980, the Permittee 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.4.4 Volatile Organic Compounds (VOC) [326 8-3-5]

(a) Pursuant to 326 IAC 8-3-5(a) (Cold Cleaner Degreaser Operation and Control), for cold cleaners D271-CLT21, D264-CLT054, G266-CLT056, I261, T264-CLT095, T263-CLT137, G273-CLT017, G274-CLT019, G271-CLT043, D262-CLT080, G264-CLT083, G276-CLT042 and T268-CLT0126 without remote solvent reservoirs constructed after July 1, 1990, the Permittee 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.

Compliance Determination Requirement

D.4.5 Particulate Control

In order to comply with D.4.2, the baghouses for particulate control shall be in operation and control emissions from the sand blasting operations controlled by baghouses BLA007, BLA009, BLA011, BLA017 and BLA018, and the grinding and machining operations controlled by DUC001 and DUC027 at all times that the units are in operation.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF AIR QUALITY

PART 70 OPERATING PERMIT CERTIFICATION

Source Name: Jasper Engines Exchange, Inc.
Source Address: 815 Wernsing Road, Jasper, Indiana 47547
Mailing Address: P. O. Box 650, Jasper, IN 47547-0650
Part 70 Permit No.: T037-17555-00089

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
P.O. Box 6015
Indianapolis, Indiana 46206-6015
Phone: 317-233-5674
Fax: 317-233-5967**

**PART 70 OPERATING PERMIT
EMERGENCY OCCURRENCE REPORT**

Source Name: Jasper Engines Exchange, Inc.
Source Address: 815 Wernsing Road, Jasper, Indiana 47547
Mailing Address: P. O. Box 650, Jasper, IN 47547-0650
Part 70 Permit No.: T037-17555-00089

This form consists of 2 pages

Page 1 of 2

- 9** This is an emergency as defined in 326 IAC 2-7-1(12)
- C The Permittee must notify the Office of Air Quality (OAQ), within four (4) business hours (1-800-451-6027 or 317-233-5674, ask for Compliance Section); and
 - C The Permittee must submit notice in writing or by facsimile within two (2) working days (Facsimile Number: 317-233-5967), 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 Describe:
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 Quarterly Report

Source Name: Jasper Engine Exchange, Inc.
 Source Address: 815 Wernsing Road, Jasper, IN 47547
 Mailing Address: P. O. Box 650, Jasper, IN 47547
 Part 70 Permit No.: T037-17555-00089
 Facility: Reciprocating Internal Combustion Engines
 Parameter: Fuel Usages
 Limit: (a) natural gas usages for all reciprocating internal combustion engines are limited at 119.7 million cubic feet (MMCF) per 12 consecutive month period, with compliance determined at the end of each month;
 (b) #2 diesel fuel usages for all reciprocating internal combustion engines are limited at 100,000 gallons per 12 consecutive month period, with compliance determined at the end of each month; and
 (c) gasoline usages for all reciprocating internal combustion engines are limited at 10,000 gallons per 12 consecutive month period, with compliance determined at the end of each month.

YEAR: _____

Month	Reciprocating Internal Combustion Engines Fuel Usages		
	Natural Gas (MMCF)	#2 Diesel Fuel (gallons)	Gasoline (gallons)
Month 1			
Month 2			
Month 3			

- 9 No deviation occurred in this quarter.
- 9 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: Jasper Engines Exchange, Inc.
 Source Address: 815 Wernsing Road, Jasper, Indiana 47547
 Mailing Address: P. O. Box 650, Jasper, IN 47547-0650
 Part 70 Permit No.: T037-17555-00089

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. Deviations that are required to be reported by an applicable requirement shall be reported according to the schedule stated in the applicable requirement and do 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>	
<p><input checked="" type="radio"/> NO DEVIATIONS OCCURRED THIS REPORTING PERIOD.</p>	
<p><input checked="" type="radio"/> THE FOLLOWING DEVIATIONS OCCURRED THIS REPORTING PERIOD</p>	
<p>Permit Requirement (specify permit condition #)</p>	
<p>Date of Deviation:</p>	<p>Duration of Deviation:</p>
<p>Number of Deviations:</p>	
<p>Probable Cause of Deviation:</p>	
<p>Response Steps Taken:</p>	
<p>Permit Requirement (specify permit condition #)</p>	
<p>Date of Deviation:</p>	<p>Duration of Deviation:</p>
<p>Number of Deviations:</p>	
<p>Probable Cause of Deviation:</p>	
<p>Response Steps Taken:</p>	

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**

**Addendum to the
Technical Support Document (TSD) for a Part 70 Permit**

Source Background and Description

Source Name:	Jasper Engine Exchange, Inc.
Source Location:	815 Wernsing Road, Jasper, Indiana 47547
County:	Dubois
SIC Code:	3714
Operation Permit No.:	T037-17555-00089
Permit Reviewer:	Alic Bent/EVP

On December 12, 2003, the Office of Air Quality (OAQ) had a notice published in the Herald in Jasper, Indiana, stating that Jasper Engine Exchange, Inc. had applied for a Part 70 permit renewal for the operation of a stationary engine, transmission and differential parts remanufacturing plant. The notice also stated that OAQ proposed to issue a Part 70 Permit for this operation and provided information on how the public could review the proposed Part 70 Permit and other documentation. Finally, the notice informed interested parties that there was a period of thirty (30) days to provide comments on whether or not this Part 70 Permit should be issued as proposed.

On December 19, 2003, Bob Calvert submitted comments on behalf of Jasper Engine Exchange, Inc. on the proposed Part 70 Permit. The summary of the comments and corresponding responses is as follows (bolded language has been added and the language with a line through it has been deleted):

Comment 1

A.2 (g) CGN 009 and CGN 010 have been removed and should be removed from the permit.

Response 1

Section A.2 (g) has been revised to show that CGN 009 and CGN 010 have been removed from the permit.

(g) ~~thirteen fifteen~~ (153) natural gas fired reciprocating internal combustion engines, identified as ACO008 through ACO011, ~~and~~ CGN001 through **CGN008 and CGN011**, each with a rated heat input of 0.725 million British thermal units per hour (mmBtu/hr) and a rated output of 102 horse power (HP);

Comment 2

A.2 (j) DYN005 & DYN019 have been removed and should be removed from the permit.

Response 2

Section A.2 (j) has been deleted since DYN005 & DYN019 have been removed from the permit.

~~(j) two (2) natural gas fired reciprocating internal combustion engines, identified as DYN005 and DYN019, each with a rated heat input of 1.4 mmBtu/hr and a rated output of 200 HP;~~

Comment 3

A.2 (k) DYN006 has been removed and should be removed from the permit.

Response 3

Section A.2 (k) has been deleted since DYN006 have been removed from the permit.

~~(k) one (1) #2 diesel fuel fired reciprocating internal combustion engine, identified as DYN006, with a rated heat input of 1.75 mmBtu/hr and a rated output of 250 HP;~~

Comment 4

A.2 (l) DYN007 was rebuilt in March 1998 and the PM number changed to DYN033 to identify the work.

Response 4

Section A.2 (l) has been revised since the unit identification number has been changed.

(l) one (1) natural gas fired reciprocating internal combustion engine, identified as DYN007**33**, with a rated heat input of 1.75 mmBtu/hr and a rated output of 250 HP;

Comment 5

The units in D.3.5 (a) are vented inside the building and there are no stack exhausts outside to be monitored during normal daylight operations. We request this requirement be changed to read as it does in our current permit (D.3.5) and the significant permit modification (D.5.6).

Response 5

The units in D.3.5 (a) are vented inside the building, therefore, Condition D.3.5 has been revised to require the source to perform visible emissions notations only when the units are exhausting to the outside atmosphere.

D.3.5 Visible Emissions Notations

- (a) Once per shift visible emission notations of the grinding and machining and the one (1) soda blast unit (BLA-037) stack exhausts shall be performed during normal daylight operations **when exhausting to the atmosphere**. A trained employee shall record whether emissions are normal or abnormal.

Comment 6

D.3.6 Parametric Monitoring: Same as above we request the reading and recording of parametric readings be required only when exhausting to the outside atmosphere as it does in our current permit (D.3.6).

Response 6

The units in D.3.6 are vented inside the building, therefore, Condition D.3.6 has been revised to require the source to perform parametric monitoring when the units are exhausting to the atmosphere.

D.3.6 Parametric Monitoring

The Permittee shall record the total static pressure drop across the baghouses used in conjunction with the grinding and machining process, and the one (1) soda blasting unit (BLA-037), at least once per shift when the processes are in operation **when exhausting to the atmosphere.**

Comment 7

D.3.9 (a) (b) Record Keeping be changed to reflect the changes to D.3.5 and D.3.6

Response 7

Condition D.3.9 has been revised to require the source to maintain records of visible emission notations and the total static pressure drop only when the units are exhausting to the atmosphere.

D.3.9 Record Keeping Requirements

- (a) To document compliance with Condition D.3.5, the Permittee shall maintain records of visible emission notations of the grinding and machining, and one (1) soda blasting unit stack exhaust once per shift **when exhausting to the atmosphere.**
- (b) To document compliance with Condition D.3.6, the Permittee shall maintain records once per shift of the total static pressure drop during normal operation **when exhausting to the atmosphere.**

Comment 8

D.4.5 VOC limitations: The aerosol spray operations are at many different locations and using the 25 ton limit per operation shouldn't be applied to aerosol spray operations as a total plant limit. The usage of the aerosol spray operations is reported in the annual emissions statement and the reporting in D.4.5 would be a duplication of paper work and reporting.

The GPL is used in several final wash operations, and is also reported in the annual emissions statement. Limiting usage of GPL in the same 25 ton limit with aerosol spray operations is again giving a total plant limit that is covered in the annual emissions statement and should be removed from D.4.5

Response 8

The VOC usage limit on the aerosol spray operations and the GPL final wash operations has been removed from the permit. Both the aerosol spray operations and the GPL final wash operations are located at many different areas throughout the plant and are operated independently of each other. In addition, the total potential to emit of VOC from each independent facility is well below the 326 IAC 8-1-6 limit of 25 tons per year for VOC. Therefore the VOC condition regarding 25 tons per year and the record keeping requirement are not needed. The permit has been revised as follows:

~~D.4.5 Volatile Organic Compounds (VOC) Limitations [326 IAC 8-2-9]~~

~~Any change or modification which increase VOC usage for aerosol spray operations or non-aerosol cleaning and GPL final wash operations performed outside the spray booths to 25 tons per year shall require OAQ's prior approval before such change can take place.~~

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

~~D.4.7 Record Keeping Requirements~~

- ~~(a) To document compliance with Condition D.4.5, the Permittee shall maintain records of the VOC usage.~~

~~(b) All records shall be maintained in accordance with Section C – General Record Keeping Requirements, of this permit.~~

Upon further review, the OAQ has decided to make the following change to the Part 70 Permit. Bolded language has been added and the language with a line through it has been deleted.

1. The emissions from the combustion engines were re-calculated based on the revised number of internal combustion engines at the plant. The revised calculation sheets (Page 1, 6 and 9 of 10 of TSD Addendum App A) are attached.

There are no changes to the Technical Support Document under the Potential to Emit section since the limited emissions remain the same.

2. Conditions C.8, C.14 and C.19 have been updated to change “source” to “Permittee”.

C.8 Performance Testing [326 IAC 3-6]

(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 ~~source~~ **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.

C.14 Risk Management Plan [326 IAC 2-8-4] [40 CFR 68]

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

C.19 General Reporting Requirements [326 IAC 2-8-4(3)(C)] [326 IAC 2-1.1-11]

(a) The ~~source~~ **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 “authorized individual” as defined by 326 IAC2-1.1-1(1).

3. Condition C.15 has been updated to the latest model language.

C.15 Compliance Response Plan - Preparation, Implementation, Records, and Reports [326 IAC 2-7-5] [326 IAC 2-7-6]

(b)(3) If the Permittee determines that additional response steps would necessitate that the emissions unit or control device be shut down, and it will be **ten (10)** days or more until the unit or device will be shut down, then the Permittee shall promptly notify the IDEM, OAQ of the expected date of the shut down. **The notification shall also include** the status of the applicable compliance monitoring parameter with respect to normal, and the results of the **response** actions taken up to the time of notification.

4. Condition B.21 – Inspection and Entry has been revised to include [IC 13-17-3-2] in the title.

B.21 Inspection and Entry [326 IAC 2-7-6] [IC 13-14-2-2][IC 13-30-3-1] **[IC 13-17-3-2]**

5. Section C.17 has been revised to include the latest model changes.

C.17 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]

(a) The Permittee shall submit an ~~annual~~ emission statement certified pursuant to the requirements of 326 IAC 2-6., ~~that must be received by July 1 of each year~~ **This statement must be received in accordance with the compliance schedule specified in 326 IAC 2-6-3** and must comply with the minimum requirements specified in 326 IAC 2-6-4. **The submittal should cover the period identified in 326 IAC 2-6.** The ~~annual~~ emission statement shall meet the following requirements:

- (1) Indicate estimated actual emission of pollutants from the source, in compliance with 326 IAC 2-6 (emission Reporting);
- (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.

~~(b) The annual emission statement covers the twelve (12) consecutive month time period starting January 1 and ending December 31. The annual emission statement must be submitted to:~~

The statement must be submitted to:

Indiana Department of Environmental Management
Technical Support and Modeling Section, Office of Air Quality
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

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

(be) The ~~annual~~ 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.

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: Jasper Engine Exchange, Inc.
Source Location: 815 Wernsing Road, Jasper, Indiana 47547
County: Dubois
SIC Code: 3714
Operation Permit No.: T037-17555-00089
Permit Reviewer: Alic Bent/EVP

The Office of Air Quality (OAQ) has reviewed a Part 70 permit application from Jasper Engine Exchange, Inc. relating to the operation of a stationary engine, transmission and differential parts remanufacturing plant.

Permitted Emission Units and Pollution Control Equipment

The source consists of the following permitted emission units and pollution control devices:

- (a) one (1) air atomization paint spray booth constructed in 1965, identified as Engine Booth, capable of painting a maximum of thirty (30) units per hour, using dry filters for overspray control, and exhausting through one (1) stack, identified as PTB001;
- (b) one (1) air atomization paint spray booth constructed in 1978, identified as Stern Drive Booth, capable of painting a maximum of three (3) units per hour, using dry filters for overspray control, and exhausting through one (1) stack, identified as PTB002;
- (c) one (1) air atomization paint spray booth constructed in 1994, identified as Radiator Booth, capable of painting a maximum of ten (10) units per hour, using dry filters for overspray control, and exhausting through one (1) stack, identified as PTB003;
- (d) one (1) air atomization paint spray booth constructed in 1970, identified as Diesel Engine Booth, capable of painting a maximum of three (3) units per hour, using dry filters for overspray control, and exhausting through one (1) stack, identified as PTB004;
- (e) one (1) air atomization paint spray booth constructed in 1965, identified as Transmission Booth, capable of painting a maximum of twenty (20) units per hour, using dry filters for overspray control, and exhausting through one (1) stack, identified as PTB005;
- (f) one (1) air atomization paint spray booth, constructed in 2003, identified as PTB-007, capable of painting a maximum of thirty (30) units per hour, using dry filters for overspray control, and exhausting through one (1) stack, identified as PTB007;
- (g) fifteen (15) natural gas fired reciprocating internal combustion engines, identified as ACO008 through ACO011 and CGN001 through CGN011, each with a rated heat input of 0.725 million British thermal units per hour (mmBtu/hr) and a rated output of 102 horse power (HP);

- (h) three (3) #2 diesel fuel fired reciprocating internal combustion engines, identified as DYN001 through DYN003, each with a rated heat input of 10.5 mmBtu/hr and a rated output of 1500 HP;
- (i) one (1) #2 diesel fuel fired reciprocating internal combustion engine, identified as DYN004, with a rated heat input of 3.5 mmBtu/hr and a rated output of 500 HP;
- (j) two (2) natural gas fired reciprocating internal combustion engines, identified as DYN005 and DYN019, each with a rated heat input of 1.4 mmBtu/hr and a rated output of 200 HP;
- (k) one (1) #2 diesel fuel fired reciprocating internal combustion engine, identified as DYN006, with a rated heat input of 1.75 mmBtu/hr and a rated output of 250 HP;
- (l) one (1) natural gas fired reciprocating internal combustion engine, identified as DYN007, with a rated heat input of 1.75 mmBtu/hr and a rated output of 250 HP;
- (m) one (1) natural gas fired reciprocating internal combustion engine, identified as DYN008, using gasoline as back-up fuel, with a rated heat input of 3.5 mmBtu/hr and a rated output of 500 HP;
- (n) two (2) natural gas fired reciprocating internal combustion engines, identified as DYN010 and DYN018, each with a rated heat input of 0.84 mmBtu/hr and a rated output of 120 HP;
- (o) one (1) natural gas fired reciprocating internal combustion engine, identified as DYN028, using gasoline as back-up fuel, with a rated heat input of 10.5 mmBtu/hr and a rated output of 1500 HP;
- (p) two (2) baghouses, identified as DUC051 and DUC052, each with a gas flow rate of greater than 4,000 actual cubic foot per minute, for controlling grinding and machining operations with an uncontrolled potential particulate emissions of greater than 25 pounds per day; and
- (q) one (1) soda blasting unit, identified as BLA-037, equipped with a baghouse for particulate control, identified as BLA-037, exhausting inside the building, capacity: 60 units per hour.

Unpermitted Emission Units and Pollution Control Equipment

There are no unpermitted facilities 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) Natural gas-fired combustion sources with heat input equal to or less than ten (10) million Btu per hour:
 - (1) one (1) natural gas fired boiler, rated at 4.5 mmBtu/hr, constructed in 1993; [326 IAC 6-1-2]
 - (2) one hundred and nine (109) natural gas fired heating units, each rated at less than 0.3 mmBtu/hr, with a total heat capacity of 10.37 mmBtu/hr;
 - (3) twenty four (24) natural gas fired heating units with a total heat capacity of 19.44 mmBtu/hr, and each with the following rated capacities:
two (2) at 1.5 mmBtu/hr, one (1) at 1.25 mmBtu/hr, four (4) at 1.15 mmBtu/hr,
one (1) at 1.12 mmBtu/hr, two (2) at 0.986 mmBtu/hr, one (1) at 0.939 mmBtu/hr,
one (1) at 0.845 mmBtu/hr, one (1) at 0.75 mmBtu/hr, one (1) at 0.634 mmBtu/hr,

one (1) at 0.563 mmBtu/hr, one (1) at 0.5 mmBtu/hr, two (2) at 0.485 mmBtu/hr, five (5) at 0.4 mmBtu/hr, and one (1) at 0.3 mmBtu/hr;

- (b) two (2) waste oil fired heaters, each rated at 0.2 mmBtu/hr;
- (c) thirteen (13) degreasing units, identified as D271-CLT21, D264-CLT054, G266-CLT056, I261, T264-CLT095, T263-CLT137, G273-CLT017, G274-CLT019, G271-CLT043, D262-CLT080, G264-CLT083, G276-CLT042 and T268-CLT0126, constructed after July 1, 1990; [326 IAC 8-3-5]
- (d) five (5) degreasing units, identified as G263-CLT038, G272-CLT018, D268-CLT020, D270-PEQ011 and D265-CLT053, constructed after January 1, 1980 and prior to July 1, 1990; [326 IAC 8-3-2]
- (e) fourteen (14) degreasing units constructed prior to January 1, 1980;
- (f) miscellaneous aerosol spray operations throughout the plant; [326 IAC 8-2-9]
- (g) miscellaneous non-aerosol cleaning and machining operations throughout the plant; [326 IAC 8-2-9]
- (h) GPL final wash usages throughout the plant; [326 IAC 8-2-9]
- (i) four (4) baghouses, identified as BLA007, BLA011, BLA017 and BLA018, each with design outlet grain loading of less than or equal to 0.03 grains per actual cubic foot and a gas flow rate of less than or equal to 4,000 actual cubic foot per minute, for controlling the sand blasting operations; [326 IAC 6-1-2]
- (j) five (5) baghouses, identified as DUC001, DUC002, DUC015, DUC021 and DUC027 each with design outlet grain loading of less than or equal to 0.03 grains per actual cubic foot and a gas flow rate of less than or equal to 4,000 actual cubic foot per minute, for controlling the grinding and machining operations, including deburring, buffing, polishing and abrasive blasting; [326 IAC 6-1-2]
- (k) two (2) baghouses (ID Nos. DUC006 and DUC029), each with a gas flow rate of greater than 4,000 actual cubic foot per minute, for controlling grinding and machining operations with uncontrolled potential particulate emissions of less than 25 pounds per day; [326 IAC 6-1-2]
- (l) Application of oils, greases, lubricants, or other nonvolatile materials applied as temporary protective coatings;
- (m) Machining where an aqueous cutting coolant continuously floods the machining interface;
- (n) The following equipment related to manufacturing activities not resulting in the emission of HAPs: brazing equipment, cutting torches, soldering equipment, welding equipment;
- (o) Closed loop heating and cooling systems;
- (p) Infrared cure equipment;
- (q) Cutting 200,000 linear feet or less of one inch (1") plate or equivalent;
- (r) Using 80 tons or less of welding consumables;
- (s) Solvent recycling systems with batch capacity less than or equal to 100 gallons;
- (t) Activities associated with the treatment of wastewater streams with an oil and grease content less than or equal to 1% by volume;

- (u) Any operation using aqueous solutions containing less than 1% by weight of VOCs excluding HAPs.
- (v) Natural draft cooling towers not regulated under a NESHAP;
- (w) Forced and induced draft cooling tower system not regulated under a NESHAP;
- (x) Replacement or repair of electrostatic precipitators, bags in baghouses and filters in other air filtration equipment;
- (y) Heat exchanger cleaning and repair;
- (z) Process vessel degassing and cleaning to prepare for internal repairs;
- (aa) Paved and unpaved roads and parking lots with public access;
- (bb) Purging of gas lines and vessels that is related to routine maintenance and repair of buildings, structures, or vehicles at the source where air emissions from those activities would not be associated with any production process;
- (cc) Equipment used to collect any material that might be released during a malfunction, process upset, or spill cleanup, including catch tanks, temporary liquid separators, tanks, and fluid handling equipment;
- (dd) Blowdown for any of the following: sight glass; boiler; compressors; pumps; and cooling tower;
- (ee) Furnaces used for melting metals other than beryllium and a brim full capacity of less than or equal to 450 cubic inches by volume;
- (ff) Filter or coalescer media changeout;
- (gg) VOC from gas block honing;
- (hh) A laboratory as defined in 326 IAC 2-7-1(21); and
- (ii) twelve (12) natural gas fired reciprocating internal combustion engines, identified as GTS001 through GTS012, each with a rated heat input of 0.088 mmBtu/hr and a rated output of 12.57 HP. [326 IAC 2-2]

Existing Approvals

The source has been operating under previous approvals including, but not limited to, the following:

- (a) Part 70 Operating Permit T037-7736-00089, issued on December 31, 1998;
- (b) First Significant Modification 037-12207-00089, issued on December 6, 2000;
- (c) First Reopening 037-13200-00089, issued on November 30, 2001;
- (d) Minor Source Modification 037-16744-00089, issued on May 21, 2003; and
- (e) Significant Permit Modification 037-17110-00089, issued on July 11, 2003.

All conditions from previous approvals were incorporated into this Part 70 permit.

Enforcement Issue

There are 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 application for the purposes of this review was received on March 27, 2003.

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

Emission Calculations

See Appendix A: pages 1 through 10 of this document for detailed emissions calculations.

Unrestricted Potential Emissions

This table reflects the unrestricted potential emissions.

Pollutant	Potential To Emit (tons/year)
PM	less than 100
PM-10	less than 100
SO ₂	less than 100
VOC	greater than 250
CO	greater than 250
NO _x	greater than 250

Note: For the purpose of determining Title V applicability for particulates, PM-10, not PM, is the regulated pollutant in consideration.

HAP's	Potential To Emit (tons/year)
Toluene	greater than 10
Xylene	greater than 10
Formaldehyde	less than 10
MIBK	less than 10
Ethylbenzene	greater than 10
TOTAL	greater than 25

- (a) The unrestricted potential emissions of VOC, NO_x and CO 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 unrestricted potential emissions of any single HAP is equal to or greater than ten (10) tons per year and the unrestricted potential emissions of a combination HAPs is greater than or equal to twenty-five (25) tons per year. Therefore, the source is subject to the provisions of 326 IAC 2-7.
- (c) Fugitive Emissions
Since this type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-2 and since there are no applicable New Source Performance Standards that were in effect on August 7, 1980, the fugitive 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 2001 OAQ emission data.

Pollutant	Actual Emissions (tons/year)
PM	not available
PM-10	< 5
SO ₂	< 5
VOC	35
CO	10
NO _x	65
HAP (specify)	not available

Potential to Emit After Issuance

The table below summarizes the potential to emit, reflecting all limits, of the significant emission units after controls. The control equipment is considered federally enforceable only after issuance of this Part 70 operating permit.

Process/facility	Potential to Emit (tons/year)							
	PM	PM-10	SO ₂	VOC	CO	NO _x	Single HAP	Combined HAPs
Surface Coating	5.11 (1)	5.11 (1)	--	120.4	--	--	21.7	58.2
Combustion (2)	3.9	3.9	2.2	8.9	51.0	248.9	0.1	0.1
Dust Collectors	1.02 (1)	1.02 (1)	--	--	--	--	--	--
Degreasing	--	--	--	91.6	--	--	6.4	6.25
Aerosol Spray	0.4	0.4	--	6.3	--	--	0.7	2.1
Cleaning and Final Wash	--	--	--	6.5	--	--	1.99	2.01
Total Emissions	10.43	10.43	2.2	233.7	51.0	248.9	21.7	68.66

(1) Based on controlled PM and PM10 potential emissions

(2) Based on fuel usage limit to render 326 IAC 2-2 not applicable.

County Attainment Status

The source is located in Dubois County.

Pollutant	Status
PM-10	attainment
SO ₂	attainment
NO ₂	attainment
Ozone	attainment
CO	attainment
Lead	attainment

- (a) Volatile organic compounds (VOC) are precursors for the formation of ozone. Therefore, VOC emissions are considered when evaluating the rule applicability relating to the ozone standards. Dubois County has been designated as attainment or unclassifiable for ozone. Therefore, VOC emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.
- (b) Dubois County has been classified as attainment or unclassifiable for all other pollutants. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

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) One (1) natural gas boiler, constructed in 1993 and rated at 4.5 MMBtu per hour is not subject to the New Source Performance Standard, 326 IAC 12, (40 CFR 60.40c, Subpart Dc) because the boiler's capacity is less than the rule applicability threshold of 10 MMBtu per hour.
- (b) The degreasing operations are not subject to National Emissions Standard for Hazardous Air Pollutants (NESHAP), 40 CFR 63.460, Subpart T. The degreasing operations at the source do not use any halogenated solvent cleaners.
- (c) This source is not subject to the provisions of 40 CFR 64, Compliance Assurance Monitoring. In order for this rule to apply, a specific emissions unit must meet three criteria for a given pollutant:
 - (1) The unit is subject to an emission limitation or standard for the applicable regulated air pollutant;
 - (2) The unit uses a control device to achieve compliance with any such emission limitation or standard, and
 - (3) The unit has potential pre-control device emissions of the applicable regulated air pollutant that are equal or greater than 100 percent of the amount required for a source to be classified as a major source.

This source does not contain any units that require the use of a control device to achieve compliance with the representative emission limitations. Therefore, 40 CFR 64 is not applicable to any facilities at the source.

- (d) The requirements of Section 112(j) of the Clean Air Act (40 CFR Part 63.50 through 63.56) are applicable to this source because the source is a major source of HAPs (i.e., the source has the potential to emit 10 tons per year or greater of a single HAP or 25 tons per year or greater of a combination of HAPs) and the source includes one or more units that belong to one or more source categories affected by the Section 112(j) Maximum Achievable Control Technology (MACT) Hammer date of May 15, 2002. This rule requires the source to:

- (1) Submit a Part 1 MACT Application by May 15, 2002; and
- (2) Submit a Part 2 MACT Application within twenty-four (24) months after the Permittee submitted a Part 1 MACT Application.

The Permittee submitted a Part 1 MACT Application on May 14, 2002. Therefore, the Permittee is required to submit the Part 2 MACT Application on or before April 25, 2004.

- (3) Pursuant to 40 CFR 63.56(a), the Permittee shall comply with an applicable promulgated MACT standard in accordance with the schedule provided in the MACT standard if the MACT standard is promulgated prior to the Part 2 MACT Application deadline or prior to the issuance of permit with a case-by-case Section 112(j) MACT determination. The MACT requirements include the applicable General Provisions requirements of 40 CFR 63, Subpart A. Pursuant to 40 CFR 63.9(b), the Permittee shall submit an initial notification not later than 120 days after the effective date of the MACT, unless the MACT specifies otherwise. The MACT and the General Provisions of 40 CFR 63, Subpart A will become new applicable requirements, as defined by 326 IAC 2-7-1(6), that must be incorporated into the Part 70 permit. After IDEM, OAQ receives the initial notification, any of the following will occur:

- (A) If three or more years remain on the Part 70 permit term at the time the MACT is promulgated, IDEM, OAQ will notify the source that IDEM, OAQ will reopen the permit to include the MACT requirements pursuant to 326 IAC 2-7-9; or
- (B) If less than three years remain on the Part 70 permit term at the time the MACT is promulgated, the Permittee must include information regarding the MACT in the renewal application, including the information required in 326 IAC 2-7-4(c); or
- (C) The Permittee may submit an application for a significant permit modification under 326 IAC 2-7-12 to incorporate the MACT requirements. The application may include information regarding which portions of the MACT are applicable to the emission units at the source and which compliance options will be followed.

As an existing major source of hazardous air pollutants (HAPs), this engine, transmission and differential parts remanufacturing plant will be subject to the following:

40 CFR Part 63, Subpart ZZZZ (National Emission Standards for Stationary Reciprocating Internal Combustion Engines). The United States Environmental Protection Agency (EPA) has established the *Stationary Reciprocating Internal Combustion Engines* source category as requiring hazardous air pollutant control. The EPA proposed such requirements on

December 19, 2002. As proposed, this rule will be applicable to existing, new, and reconstructed stationary reciprocating internal combustion engines (RICEs) operated at a major source of hazardous air pollutants (HAPs), as defined at 40 CFR Part 63.2.

The source shall evaluate rule applicability upon final promulgation and will comply with all applicable requirements.

40 CFR Part 63, Subpart DDDDD (National Emission Standards for Industrial / Commercial / Institutional Boilers and Process Heaters). The United States Environmental Protection Agency (EPA) has established the Industrial/Commercial/Institutional Boilers and Process Heaters source category as requiring hazardous air pollutant control. The EPA proposed such requirements on January 13, 2003. As proposed, this rule will be applicable each individual Industrial, Commercial or Institutional Boiler and Process Heater located at a major source of hazardous air pollutants (HAPs), as defined at 40 CFR Part 63.2.

The source shall evaluate rule applicability upon final promulgation and will comply with all applicable requirements.

The Engine, Stern Drive, Radiator, Diesel Engine, Transmission and PTB-007 Booths at this source is subject to 40 CFR Part 63, Subpart MMMM (Miscellaneous Metal Parts and Products) because they coat metal parts and the source is a major source of HAPs. This source is required to comply with this subpart by August 18, 2006.

State Rule Applicability - Entire Source

326 IAC 2-2 (Prevention of Significant Deterioration, PSD)

This source is not subject to the requirements of this rule. This source was constructed prior to the rule applicability date of August 7, 1977 and is not considered a major source because it is not one of the 28 listed source categories, no major modifications were done, and it has the potential to emit after controls of less than 250 tons per year of any criteria pollutant. Prior to August 7, 1977 was a minor source with the potential to emit of less than 250 tons per year of any criteria pollutant. Since 1977 the source has made the following modifications:

- (a) All reciprocating internal combustion (IC) engines at the source commenced operation after the PSD applicability date of August 7, 1977, with unrestricted potential emissions of VOC, NOx and CO of greater than 250 tons per year. Pursuant to T037-7736-00089, issued on December 31, 1998, the source limited VOC, NOx and CO emissions to less than 8.9, 248.9 and 51.0 tons per year, respectively, by limiting IC engine fuel usages, as follows (see Appendix A Page 6 of 10):
 - (1) Source wide natural gas usage for all reciprocating internal combustion engines is limited at 119.7 million cubic feet per 12 consecutive month period, with compliance determined at the end of each month;
 - (2) Source wide #2 diesel fuel usage for all reciprocating internal combustion engines is limited at 100,000 gallons per 12 consecutive month period, with compliance determined at the end of each month; and
 - (3) Source wide gasoline usage for all reciprocating internal combustion engines is limited at 10,000 gallons per 12 consecutive month period, with compliance determined at the end of each month.

For this Title V Renewal permit review, the source shall continue to limit the source wide IC engine fuel usages, such that the source wide potential to emit of VOC, NOx and CO are each limited to less than 250 tons per year. The VOC, NOx and CO emissions are each less

than the PSD major modification emissions threshold of 250 tons per year, therefore, the installation of these units was a minor modification to an existing minor source.

- (b) Stern Drive Booth, constructed in 1978, with unrestricted potential emissions of VOC, PM/PM10 of 2.73 and 1.31 tons per year, respectively. The VOC and PM/PM10 emissions are each less than the PSD major modification emissions threshold of 250 tons per year, therefore, the installation of this unit was a minor modification to an existing minor source.
- (c) Radiator Booth, constructed in 1994, with unrestricted potential emissions of VOC, PM/PM10 of 2.27 and 10.38 tons per year, respectively. The VOC and PM/PM10 emissions are each less than the PSD major modification emissions threshold of 250 tons per year, therefore, the installation of this unit was a minor modification to an existing minor source.
- (d) The two (2) baghouses, identified as DUC051 and DUC052, one (1) soda blasting unit, identified as BLA-037 and PTB-007, were all constructed and permitted under Minor Source Modification 037-16744-00089, issued on May 21, 2003, with total unrestricted potential emissions of PM/PM10 and VOC of 93.62 and 1.04 tons per year, respectively. The PM/PM10 and VOC emissions are each less than the PSD major modification emissions threshold of 250 tons per year, therefore, the installation of these units was a minor modification to an existing minor source.

Therefore, the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration, PSD) do not apply to this source.

326 IAC 2-4.1 (Major Sources of Hazardous Air Pollutants (HAP))

This source is not subject to this rule. This rule applies to major sources of hazardous air pollutants (HAP) that were constructed or reconstructed after July 27, 1997. The two (2) baghouses, identified as DUC051 and DUC052, one (1) soda blasting unit, identified as BLA-037 and PTB-007, were in constructed in 2003, however, there are no HAP emissions from these facilities. All other facilities at this source were constructed before 1997. Therefore, 326 IAC 2-4.1 does not apply.

326 IAC 2-6 (Emission Reporting)

This source is subject to 326 IAC 2-6 (Emission Reporting), because it has the potential to emit more than one hundred (100) tons per year of VOC, NOx and CO. Pursuant to this rule, the Permittee must annually submit an emission statement for the source. The annual statement must be received by July 1 of each year and contain the minimum requirement as specified in 326 IAC 2-6-4. The submittal should cover the period defined in 326 IAC 2-6-2(8)(Emission Statement Operating Year).

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 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%) 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.

326 IAC 6-1-1 (Particulate Limitations - Dubois County)

This rule applies to specifically listed sources or facilities, or sources or facilities not specifically listed but located in a listed county and having either a potential to emit of 100 tons per year (tpy) or more actual emissions of 10 tpy or more of PM.

The source is located in Dubois County, a specifically listed county. The source and its facilities are not specifically listed at 326 IAC 6-1-9 and, therefore, the requirements of 326 IAC 6-1-9 do not apply. The potential to emit PM from the entire source is greater than one-hundred (100) tons per year. Therefore, the requirements of 326 IAC 6-1-2(a) (General Sources) are applicable to this source. Pursuant to this rule, particulate matter emissions from this source shall be limited to 0.03 gr/ dscf as follows:

ID #	Exhaust Flow Rate (cfm)	Emission Limit (lb/hr)	ID #	Exhaust Flow Rate (cfm)	Emission Limit (lb/hr)
Engine Booth	18,000	4.63	BLA037	600	0.154
Stern Drive Booth	9,600	2.47	DUC001	4,000	1.03
Radiator Booth	5,300	1.36	DUC002	1,200	0.31
Diesel Engine Booth	18,000	4.63	DUC006	18,000	4.63
Transmission Booth	18,000	4.63	DUC015	2,200	0.57
PTB-007	1,500	0.386	DUC021	2,000	0.51
BLA007	420	0.11	DUC027	3,000	0.77
BLA009	1,250	0.32	DUC029	6,400	1.65
BLA011	420	0.11	DUC051	9,500	2.44
BLA017	750	0.19	DUC052	15,000	3.86
BLA018	420	0.11			

Based on the calculations in Appendix A: page 10 of 10, all the units are in compliance with the 326 IAC 6-1-2 limits. The baghouses shall be in operation at all times the units are in operation.

Pursuant to 326 IAC 6-1-2(b)(3), all gaseous fuel-fired steam generators shall be limited to a particulate matter content of no greater than 0.01 gr/dscf . The natural gas fired boiler at the source is subject to this rule. Therefore, pursuant to this rule, particulate matter emissions from the boiler shall be limited to 0.01 gr/dscf which is equivalent to 0.86 lb/hr at an exhaust flow rate of 10,000 dry standard cubic foot.

The particulate matter PTE for the boiler is 0.03 lb/hr < 0.86 lb/hr, therefore the boiler is in compliance with the 326 IAC 6-1-2(b)(3) limit.

326 IAC 6-4 (Fugitive Dust Emissions)

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).

State Rule Applicability - Individual Facilities

326 IAC 6-2 (Particulate Emission Limitations for Sources of Indirect Heating)

326 IAC 6-2 does not apply to the internal combustion engines at this source since these facilities are not used for purposes of indirect heating.

326 IAC 6-2-4 (Particulate Emission Limitations for Sources of Indirect Heating)

The facilities at this source are not subject to 326 IAC 6-2-4 (Particulate Emission Limitations for Sources of Indirect Heating), because the allowable emissions for 326 IAC 6-2-4 are less stringent than the allowable emissions for 326 IAC 6-1-2.

326 IAC 6-3-2 (Process Operations)

The facilities at this source are not subject to 326 IAC 6-3-2 (Process Operations), because the allowable emissions for 326 IAC 6-3-2 are less stringent than the allowable emissions for 326 IAC 6-1-2. Pursuant to 326 IAC 6-3-1(b) (1), these facilities are not subject to 326 IAC 6-3-2.

326 IAC 7-1.1 (Sulfur Dioxide Emission Limitations)

This rule requires all facilities with a potential to emit twenty-five (25) tons per year or ten (10) pounds per hour of sulfur dioxide to comply with the emission limitations and test compliance methods stated in the rule. This rule is not applicable to this source, because no facility at the source has a potential to emit twenty-five (25) tons per year or ten (10) pounds per hour of sulfur dioxide.

326 IAC 8-1-6 (General Reduction Requirements)

This rule applies to facilities located anywhere in the state that were constructed on or after January 1, 1980, and which have potential volatile organic compound (VOC) emissions of 25 tons per year or more and are not otherwise regulated by other provisions of article 8. The Engine, Stern Drive, Diesel Engine and Transmission Booths at the source were all constructed before January 1, 1980, therefore, this rule does not apply. The Radiator Booth, which was constructed in 1994, is subject to the 326 IAC 8-2-9 rules. Therefore, 326 IAC 8-1-6 does not apply. The potential to emit VOC from the one (1) air atomization paint spray booth, identified as PTB-007, is less than 25 tons per year. Therefore, the requirements of 326 IAC 8-1-6 are not applicable.

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

Pursuant to 326 IAC 8-2-9 (Miscellaneous Metal Coating Operations), the volatile organic compound (VOC) content of coating delivered to the applicator at the spray booth constructed after November 1, 1980 shall be limited to 3.5 pounds of VOCs per gallon of coating less water, for forced warm air dried coatings. The Radiator Booth, which was constructed in 1994, is subject to the 326 IAC 8-2-9 rules. The source will be in compliance with the rule by using compliant coatings, based on the MSDS submitted by the source and calculations made, at the Radiator Booth.

Solvent sprayed from application equipment, at the Radiator Booth, during cleanup or color changes shall be directed into containers. Such containers shall be closed as soon as such solvent spraying is complete, and the waste solvent shall be disposed of in such a manner that evaporation is minimized.

Aerosol spray operations at the source are not subject to the requirements of 326 IAC 8-2-9, because the source commenced these operations before July 1, 1991 and potential VOC emissions from aerosol spray operations are less than 25 tons per year. Therefore, pursuant to 326 IAC 8-2-1, the requirements of 326 IAC 8-2-9 do not apply for aerosol spray operations.

The potential to emit VOC from the one (1) air atomization paint spray booth, identified as PTB-007, has actual emissions of less than fifteen (15) pounds per day, before add-on controls. Therefore, the requirements of 326 IAC 8-2-9 are not applicable. Any change or modification which would increase the actual VOC emissions to fifteen (15) pounds per day or more from the one (1) air atomization paint spray booth, identified as PTB-007 shall obtain prior approval from IDEM, OAQ.

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

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

Pursuant to 326 IAC 8-3-5(a) (Cold Cleaner Degreaser Operation and Control), Jasper Engine Exchange, Inc. shall comply with the following when operating the cold cleaning facilities constructed after July 1, 1990:

- (a) that the following control equipment requirements are met:
 - (1) Equip the degreaser with a cover. The cover must be designed so that it can be easily operated with one (1) hand if:
 - (A) the solvent volatility is greater than two (2) kiloPascals (fifteen (15) millimeters of mercury or three-tenths (0.3) pounds per square inch) measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F));
 - (B) the solvent is agitated; or
 - (C) the solvent is heated.
 - (2) Equip the degreaser with a facility for draining cleaned articles. If the solvent volatility is greater than four and three-tenths (4.3) kiloPascals (thirty-two (32) millimeters of mercury) or (six-tenths (0.6) pounds per square inch) measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F)), then the drainage facility must be internal such that articles are enclosed under the cover while draining. The drainage facility may be external for applications where an internal type cannot fit into the cleaning system.
 - (3) Provide a permanent, conspicuous label which lists the operating requirements outlined in subsection (b).
 - (4) The solvent spray, if used, must be a solid, fluid stream and shall be applied at a pressure which does not cause excessive splashing.
 - (5) Equip the degreaser with one (1) of the following control devices if the solvent volatility is greater than four and three-tenths (4.3) kiloPascals (thirty-two (32) millimeters of mercury) or (six-tenths (0.6) pounds per square inch) measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F)), or if the solvent is heated to a temperature greater than forty-eight and nine-tenths degrees Celsius (48.9°C) (one hundred twenty degrees Fahrenheit (120°F)):
 - (A) A freeboard that attains a freeboard ratio of seventy-five hundredths (0.75) or greater.
 - (B) A water cover when solvent is used is insoluble in, and heavier than, water.
 - (C) Other systems of demonstrated equivalent control such as a refrigerated

chiller of carbon adsorption. Such systems shall be submitted to the U.S. EPA as a SIP revision.

- (b) 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.

Degreasers G263-CLT038, G272-CLT018, D268-CLT020, D270-PEQ011 and D265-CLT053 were constructed after January 1, 1980 and prior to July 1, 1990 and shall be operated in compliance with the requirements of 326 IAC 8-3-2.

Degreasers D271-CLT21, D264-CLT054, G266-CLT056, I261, T264-CLT095, T263-CLT137, G273-CLT017, G274-CLT019, G271-CLT043, D262-CLT080, G264-CLT083, G276-CLT042 and T268-CLT0126 were constructed after July 1, 1990 and shall be operated in compliance with the requirements of 326 IAC 8-3-2 and 326 IAC 8-3-5.

326 IAC 8-6 (Organic Solvent Emission Limitations)

This rule applies to organic solvent usages commencing operation after October 7, 1974 and prior to January 1, 1980, located anywhere in the state, with potential VOC emissions of 100 tons per year or more, and not regulated by any other provision of Article 8. The Engine, Radiator Booth, Diesel Engine and Transmission Booths were not constructed after October 7, 1974 and prior to January 1, 1980, therefore, this rule does not apply. The solvent usages for cleaning and final wash are not subject to the rule, because potential VOC emissions from these operations are less than 100 tons per year, therefore, this rule does not apply. The Stern Drive Booth was constructed in 1978, however, potential VOC emissions from this unit is less than 100 tons per year, therefore, this rule does not apply.

326 IAC 9 (Carbon Monoxide Emission Limits):

Pursuant to 326 IAC 9 (Carbon Monoxide Emission Limits), the source is not subject to this rule since this source commenced operation prior to the rule applicability date of March 21, 1972.

326 IAC 10 (Nitrogen Oxide Rules)

- (a) 326 IAC 10-1 (NOx Control in Clark and Floyd Counties)
Pursuant to 326 IAC 10-1-1 (Applicability), the requirements of this rule apply to stationary sources located in Clark and Floyd Counties that emit or have the potential to emit NOx at 100 tons per year or more. The source is located in Dubois County and, therefore, this rule is not applicable to this source.
- (b) 326 IAC 10-3 (NOx Reduction Program for Specific Source Categories)
Pursuant to 326 IAC 10-3-1 (Applicability), the requirements of this rule apply to any of the specifically listed source categories. This source is not one of the specifically listed sources and, therefore, this rule is not applicable to this source.
- (c) 326 IAC 10-4 (NOx Budget Trading Program)
Pursuant to 326 IAC 10-4-1 (Applicability), the requirements of this rule apply to electricity generating units (EGUs) and large affected units, as respectively defined at Sections 2 (16) and (27) of the rule. Based on these definitions, the reciprocating internal combustion engines at this source are not considered as an EGU or a large affected unit and therefore, the requirements of this rule do not apply to this source.

Testing Requirements

Testing of this facility is not required by this permit.

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 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:

1. The Engine, Stern Drive, Diesel Engine, Radiator, Transmission and PTB-007 Booths have applicable compliance monitoring conditions as specified below:
 - (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 coating booth stacks (PTB001 - PTB006 and PTB007) while one or more of the booths are in operation. The Compliance Response Plan shall be followed whenever a condition exists which should result in a response step. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a deviation from this permit.
 - (b) Monthly inspections shall be performed of the coating emissions from the stack and the presence of overspray on the rooftops and the nearby ground. The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when a noticeable change in overspray emission, or evidence of overspray emission is observed. The Compliance Response Plan shall be followed whenever a condition exists which should result in a response step. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a deviation from this permit.

These monitoring conditions are necessary because the dry filters for the Engine, Stern Drive, Diesel Engine, Radiator, Transmission and PTB-007 Booths must operate properly to ensure compliance with 326 IAC 6-1-2 (Particulate Limitations - Dubois County) and 326 IAC 2-7 (Part 70).

2. The grinding and machining operations, controlled by DUC051 and DUC052, and the one

(1) soda blasting unit (BLA-037) have applicable compliance monitoring conditions as specified below:

- (a) Once per shift visible emissions notations of the grinding and machining operations, controlled by DUC051 and DUC052, and the one (1) soda blasting unit (BLA-037) stack exhausts shall be performed during normal daylight operations. A trained employee will record whether emissions are normal or abnormal. 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. 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. 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. The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when an abnormal emission is observed.
- (b) The Permittee shall record the total static pressure drop across the baghouses controlling the grinding and machining operations, controlled by DUC051 and DUC052, and the one (1) soda blasting unit (BLA-037), at least once per shift when the units are in operation. When for any one reading, the pressure drop across the baghouses is outside the normal range of 1.0 and 6.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C- Compliance Response Plan - Preparation, Implementation, Records, and Reports. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a violation of this permit.
- (c) An inspection shall be performed each calendar quarter of all bags controlling the process. Inspections required by this condition shall not be performed in consecutive months. All defective bags shall be replaced.
- (d) In the event that bag failure has been observed:
 - (1) For multi-compartment units, the affected compartments will be shut down immediately until the failed units have been repaired or replaced. Within eight (8) business hours of the determination of failure, response steps according to the timetable described in the Compliance Response Plan shall be initiated. For any failure with corresponding response steps and timetable not described in the Compliance Response Plan, response steps shall be devised within eight (8) business hours of discovery of the failure and shall include a timetable for completion. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a violation of this permit. If operations continue after bag failure is observed and it will be 10 days or more after the failure is observed before the failed units will be repaired or replaced, the Permittee shall promptly notify the IDEM, OAQ of the expected date the failed units will be repaired or replaced. The notification shall also include the status of the applicable

compliance monitoring parameters with respect to normal, and the results of any response actions taken up to the time of notification.

- (2) For single compartment baghouses, if failure is indicated by a significant drop in the baghouse's pressure readings with abnormal visible emissions or the failure is indicated by an opacity violation, or if bag failure is determined by other means, such as gas temperatures, flow rates, air infiltration, leaks, dust traces or triboflows, then failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

These monitoring conditions are necessary because the baghouses for the grinding and machining operations, controlled by DUC051 and DUC052, and the one (1) soda blasting unit (BLA-037) must operate properly to ensure compliance with 326 IAC 6-1-2 (Particulate Limitations - Dubois County) and 326 IAC 2-7 (Part 70).

Conclusion

The operation of this a stationary engine, transmission and differential parts remanufacturing plant shall be subject to the conditions of the attached proposed Part 70 Permit No. T037-17555-00089.

Appendix A: Emission Calculations Summary

Company Name: Jasper Engine Exchange, Inc.
Address City IN Zip: 815 Wernsing Road, Jasper, IN 47547
Permit No.: T037-17555-00089
Reviewer: Alic Bent/EVP
Date: 2-Feb-04

Potential Emissions (tons/year, uncontrolled)							
Emissions Generating Activity							
Pollutant	Surface Coating	Combustion	Dust Collectors	Degreasing	Aerosol Spray	Cleaning & Final Wash	Total Emissions (tons/yr)
VOC	120.4	247.1	0.0	91.6	6.3	6.5	471.9
PM	34.1	55.4	172.1	0.0	0.4	0.0	262.0
PM10	34.1	55.4	172.1	0.0	0.4	0.0	262.0
SO2	0.0	49.8	0.0	0.0	0.0	0.0	49.8
NOx	0.0	998.0	0.0	0.0	0.0	0.0	998.0
CO	0.0	4027.2	0.0	0.0	0.0	0.0	4027.2
Total HAPs	58.2	1.8	0.0	6.4	2.1	2.0	70.4
Worst Case Single HAP	21.7	1.7	0.0	6.3	0.7	2.0	21.7

Total uncontrolled emissions based on rated capacity at 8760 hours.

Limited Emissions (tons/year, controlled)							
Emissions Generating Activity							
Pollutant	Surface Coating	Combustion**	Dust Collectors	Degreasing	Aerosol Spray	Cleaning & Final Wash	Total
VOC	120.4	8.9	0.0	91.6	6.3	6.5	233.7
PM	5.1	3.9	1.0	0.0	0.4	0.0	10.5
PM10	5.1	3.9	1.0	0.0	0.4	0.0	10.5
SO2	0.0	2.2	0.0	0.0	0.0	0.0	2.2
NOx	0.0	248.9	0.0	0.0	0.0	0.0	248.9
CO	0.0	51.0	0.0	0.0	0.0	0.0	51.0
Total HAPs	58.2	0.1	0.0	6.4	2.1	2.0	68.7
Worst Case Single HAP	21.7	0.1	0.0	6.3	0.7	2.0	21.7

** The source will limit the IC Engine combustions to: (1) 10,000 gal/yr of gasoline; (2) 100,000 gal/yr of diesel fuel; and (3) 119.7 MMCF/yr of natural gas. These limitations will limit source wide VOC, NOx and CO emissions to less than 250 tons/yr. Therefore, the requirements of PSD, 326 IAC 2-2, do not apply.

Appendix A: Emission Calculations Summary

Company Name: Jasper Engine Exchange, Inc.
Address City IN Zip: 815 Wernsing Road, Jasper, IN 47547
Permit No.: T037-17555-00089
Reviewer: Alic Bent/EVP
Date: 24-Sep-03

Potential Emissions (tons/year, uncontrolled)							
Emissions Generating Activity							
Pollutant	Surface Coating	Combustion	Dust Collectors	Degreasing	Aerosol Spray	Cleaning & Final Wash	Total Emissions (tons/yr)
VOC	120.4	251.4	0.0	91.6	6.3	6.5	476.2
PM	34.1	58.0	172.1	0.0	0.4	0.0	264.6
PM10	34.1	58.0	172.1	0.0	0.4	0.0	264.6
SO2	0.0	52.0	0.0	0.0	0.0	0.0	52.0
NOx	0.0	1095.1	0.0	0.0	0.0	0.0	1095.1
CO	0.0	4042.5	0.0	0.0	0.0	0.0	4042.5
Total HAPs	58.2	1.8	0.0	6.4	2.1	2.0	70.4
Worst Case Single HAP	21.7	1.7	0.0	6.3	0.7	2.0	21.7

Total uncontrolled emissions based on rated capacity at 8760 hours.

Limited Emissions (tons/year, controlled)							
Emissions Generating Activity							
Pollutant	Surface Coating	Combustion**	Dust Collectors	Degreasing	Aerosol Spray	Cleaning & Final Wash	Total
VOC	120.4	8.9	0.0	91.6	6.3	6.5	233.7
PM	5.1	3.9	1.0	0.0	0.4	0.0	10.5
PM10	5.1	3.9	1.0	0.0	0.4	0.0	10.5
SO2	0.0	2.2	0.0	0.0	0.0	0.0	2.2
NOx	0.0	248.9	0.0	0.0	0.0	0.0	248.9
CO	0.0	51.0	0.0	0.0	0.0	0.0	51.0
Total HAPs	58.2	0.1	0.0	6.4	2.1	2.0	68.7
Worst Case Single HAP	21.7	0.1	0.0	6.3	0.7	2.0	21.7

****** The source will limit the IC Engine combustions to: (1) 10,000 gal/yr of gasoline; (2) 100,000 gal/yr of diesel fuel; and (3) 119.7 MMCF/yr of natural gas.
 These limitations will limit source wide VOC, NOx and CO emissions to less than 250 tons/yr. Therefore, the requirements of PSD, 326 IAC 2-2, do not apply.

Appendix A: Emission Calculations

VOC and Particulate

From Surface Coating Operations

Company Name: Jasper Engine Exchange, Inc.
 Address City IN Zip: 815 Wernsing Road, Jasper, IN 47547
 Permit No.: T037-17555-00089
 Reviewer: Alic Bent/EVP
 Date: 17-Sep-03

Potential Emissions (uncontrolled):																		
Material (as applied)	Process	Density (Lb/Gal)	Weight % Volatile (H2O& Organics)	Weight % Water	Weight % Organics	Volume % Water	Volume % Non-Vol (solids)	Gal of Mat (gal/unit)	Maximum (unit/hour)	Pounds VOC per gallon of coating less water	Pounds VOC per gallon of coating	Potential VOC pounds per hour	Potential VOC pounds per day	Potential VOC tons per year	Particulate Potential ton/yr	lb VOC /gal solids	Transfer Efficiency	
Engine Paint Booth																		
P1432 Gray	Spray Coating	7.45	64.63%	0.00%	64.63%	0.00%	24.96%	0.040	30.00	4.8	4.81	5.78	138.67	25.31	6.92	38.58	50.00%	
P1438 Black	Spray Coating	7.35	64.55%	0.00%	64.55%	0.00%	27.27%	0.040	30.00	4.7	4.74	5.69	136.64	24.94	6.85	34.80	50.00%	
VM & P Naphtha	Engine Cleaning	6.20	100.00%	0.00%	100.00%	0.00%	0.00%	0.060	30.00	6.2	6.20	11.10	266.40	48.62	0.00			
Stern Drive Paint Booth																		
Yellow Primer	Spray Coating	9.03	57.51%	0.00%	57.51%	0.00%	25.95%	0.040	3.00	5.2	5.19	0.62	14.96	2.73	1.01	40.02	50.00%	
Gray Primer	Spray Coating	10.16	50.95%	0.00%	50.95%	0.00%	27.51%	0.040	3.00	5.2	5.18	0.62	14.91	2.72	1.31	37.63	50.00%	
Black Enamel	Spray Coating	7.82	58.38%	0.00%	58.38%	0.00%	35.97%	0.040	3.00	4.6	4.57	0.55	13.15	2.40	0.86	25.38	50.00%	
Dark Grey	Spray Coating	7.85	59.77%	0.00%	59.77%	0.00%	34.33%	0.040	3.00	4.7	4.69	0.56	13.51	2.47	0.83	27.33	50.00%	
Oyster White	Spray Coating	9.40	48.57%	0.00%	48.57%	0.00%	36.12%	0.040	3.00	4.6	4.57	0.55	13.15	2.40	1.27	25.28	50.00%	
Radiators Paint Booth																		
P1439 Black	Spray Coating	8.93	46.90%	41.10%	5.80%	33.10%	31.90%	0.100	10.00	0.8	0.52	0.52	12.43	2.27	10.38	3.25	50.00%	
Diesel Engine Paint Booth																		
P1043 Tan	Spray Coating	8.49	55.16%	0.00%	55.16%	0.00%	26.80%	0.500	3.00	4.7	4.68	7.02	168.59	30.77	12.51	34.95	50.00%	
P1350 Blue	Spray Coating	7.74	61.52%	0.00%	61.52%	0.00%	25.84%	0.500	3.00	4.8	4.76	7.14	171.42	31.28	9.78	36.85	50.00%	
P1352 Lt. Green	Spray Coating	7.60	63.07%	0.00%	63.07%	0.00%	25.04%	0.500	3.00	4.8	4.79	7.19	172.56	31.49	9.22	38.29	50.00%	
P1398 Red	Spray Coating	7.76	61.67%	0.00%	61.67%	0.00%	27.20%	0.500	3.00	4.8	4.79	7.18	172.28	31.44	9.77	35.19	50.00%	
P1421 Yellow	Spray Coating	8.36	59.34%	0.00%	59.34%	0.00%	26.64%	0.500	3.00	5.0	4.96	7.44	178.59	32.59	11.17	37.24	50.00%	
P1432 Grey	Spray Coating	7.45	64.63%	0.00%	64.63%	0.00%	24.96%	0.500	3.00	4.8	4.81	7.22	173.34	31.63	8.66	38.58	50.00%	
P1436 Green	Spray Coating	7.80	61.72%	0.00%	61.72%	0.00%	24.96%	0.500	3.00	4.8	4.81	7.22	173.31	31.63	9.81	38.58	50.00%	
P1438 Black	Spray Coating	7.35	64.55%	0.00%	64.55%	0.00%	27.27%	0.500	3.00	4.7	4.74	7.12	170.80	31.17	8.56	34.80	50.00%	
Transmission, Converter, Axle Housing, Differential Paint Booth																		
L1964 Copper	Spray Coating	7.25	83.36%	0.00%	83.36%	0.00%	12.48%	0.040	2.00	6.0	6.04	0.48	11.60	2.12	0.21	96.85	50.00%	
P1113 Primer	Spray Coating	8.62	53.52%	0.00%	53.52%	0.00%	28.08%	0.040	2.00	4.6	4.61	0.37	8.86	1.62	0.70	32.86	50.00%	
P1350 Blue	Spray Coating	7.74	61.52%	0.00%	61.52%	0.00%	25.84%	0.040	2.00	4.8	4.76	0.38	9.14	1.67	0.52	36.85	50.00%	
P1432 Grey	Spray Coating	7.45	64.63%	0.00%	64.63%	0.00%	31.20%	0.040	2.00	4.8	4.81	0.39	9.24	1.69	0.46	30.86	50.00%	
P1434 Aluminum	Spray Coating	7.43	65.64%	0.00%	65.64%	0.00%	24.16%	0.040	2.00	4.9	4.88	0.39	9.36	1.71	0.45	40.37	50.00%	
P1436 Green	Spray Coating	7.80	61.72%	0.00%	61.72%	0.00%	31.20%	0.040	2.00	4.8	4.81	0.39	9.24	1.69	0.52	30.86	50.00%	
P1438 Black	Spray Coating	7.35	64.55%	0.00%	64.55%	0.00%	27.27%	0.040	2.00	4.7	4.74	0.38	9.11	1.66	0.46	34.80	50.00%	
PTB-007																		
E77AC503	Spray Coating	8.86	61.40%	52.50%	8.90%	55.80%	33.80%	0.010	30.00	1.8	0.79	0.24	5.68	1.04	2.25	4.67	50.00%	
Thinner for Cleaning																		
T260 Thinner	Cleaning	6.54	100.00%	0.00%	100.00%	0.00%	0.00%	0.20 Gal/hr		6.5	6.54	1.31	31.39	5.73	0.00		100.00%	
Total Uncontrolled Potential Emissions:												27.49	659.72	120.40	34.07			
Potential Emissions (controlled):																		
										Control Efficiency:		Controlled VOC lbs per Hour	Controlled VOC lbs per Day	Controlled VOC tons per Year	Controlled PM tons/yr			
										VOC	PM							
Total Controlled Potential Emissions:										0.00%	85.00%	27.49	659.72	120.40	5.11			

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) * Transfer Efficiency
 Coating usages are mutually exclusive for each coating booth. Therefore, Total = Worst Coating + Sum of all solvents used
 Controlled emission rate = uncontrolled emission rate * (1 - control efficiency)

**Appendix A: Emission Calculations
VOC and Particulate
From Aerosol Spray Operations**

**Company Name: Jasper Engine Exchange, Inc.
Address City IN Zip: 815 Wernsing Road, Jasper, IN 47547
Permit No.: T037-17555-00089
Reviewer: Alic Bent/EVP
Date: 16-Sep-03**

Potential Emissions (uncontrolled)										
Material (as applied)	Type	Net Weight per Can (lb/can)	Weight % VOC	Weight % Solid	Maximum Usage (cans/yr)	Potential VOC Emissions		Potential PM Emissions		Transfer Efficiency
						(lb/yr)	(ton/yr)	(lb/yr)	(ton/yr)	
3M 90	Adhesive	1.031	74.00%	11.00%	622	475	0.24	28	0.01	60.00%
3M Super 77	Adhesive	1.031	75.00%	25.00%	1881	1455	0.73	194	0.10	60.00%
711	Penetrating Oil	0.688	76.80%	23.20%	1214	641	0.32	77	0.04	60.00%
744	Penetrant Dye	0.563	98.70%	1.30%	396	220	0.11	1	0.00	60.00%
745	Developer	0.563	30.00%	8.00%	492	83	0.04	9	0.00	60.00%
BBQ Black 150	Paint	0.688	62.50%	15.00%	35	15	0.01	1	0.00	60.00%
Cast Blast	Paint	0.750	79.00%	15.00%	632	374	0.19	28	0.01	60.00%
Crest	Leak Trace	1.000	95.00%	5.00%	350	332	0.17	7	0.00	60.00%
Crown 6090N PR.Blue	Blue Marking Fluid	0.313	42.80%	4.00%	10	1	0.00	0	0.00	60.00%
DGF K5200K	Graphite Spray	0.563	98.60%	11.00%	3154	1749	0.87	78	0.04	60.00%
Dykem Steel Blue	Layout Fluid	1.000	94.40%	5.70%	12	11	0.01	0	0.00	60.00%
Engine Enamel C 1	Paint Column 1	0.688	48.00%	17.00%	6301	2079	1.04	295	0.15	60.00%
Engine Enamel C 2	Paint Column 2	0.688	50.00%	15.00%	548	188	0.09	23	0.01	60.00%
Engine Enamel C 3	Paint Column 3	0.688	60.50%	15.00%	1247	519	0.26	51	0.03	60.00%
LAS 16	Welding Anti Spat	0.750	4.50%	4.50%	323	11	0.01	4	0.00	60.00%
Locquic Primer T	Loctite Primer	0.375	4.10%	5.00%	119	2	0.00	1	0.00	60.00%
LPS 2	Penetrating Oil	0.688	70.00%	0.00%	3485	1677	0.84	0	0.00	60.00%
MF-10RI	Paint, Red Insulator	0.938	57.00%	18.00%	576	308	0.15	39	0.02	60.00%
MF-11 CC	Contact Cleaner	1.000	3.70%	0.00%	515	19	0.01	0	0.00	60.00%
Muscle AC-C	Carburetor Cleaner	0.953	90.00%	0.00%	2463	2113	1.06	0	0.00	60.00%
OMC Charcoal	Paint	1.000	56.00%	12.10%	12	6	0.00	1	0.00	60.00%
Pioneer Copper	Gasket Cement 4000	0.563	48.00%	17.00%	296	80	0.04	11	0.01	60.00%
Super Enamel Red Oxide Primer	Paint T-19	0.688	76.00%	15.00%	254	132	0.07	10	0.01	60.00%
Tractor Colors	Paint	0.688	50.00%	15.00%	346	119	0.06	14	0.01	60.00%
Total Potential Emissions:						12610	6.30	874	0.44	

Methodology:

Potential VOC Emissions = Pounds per Aerosol Can (lb/can) * Maximum Usage (cans/yr) * VOC wt. % = lb VOC/yr * (1/2000) ton/lb = ton VOC / yr

Potential PM Emissions = Pounds per Aerosol Can (lb/can) * Maximum Usage (cans/yr) * PM wt. % * (1 - transfer %)= lb PM/yr * (1/2000) ton/lb = ton PM / yr

Appendix A: Emission Calculations
VOC Emissions
From Misc. Cleaning & Final Wash Operations

Company Name: Jasper Engine Exchange, Inc.
Address City IN Zip: 815 Wernsing Road, Jasper, IN 47547
Permit No.: T037-17555-00089
Reviewer: Alic Bent/EVP
Date: 19-Sep-03

There are miscellaneous non-aerosol cleaning, machining and GPL final wash operations throughout the plant. Emissions from these operations are summarized as follows:

I. Non-aerosol Cleaning and Machining Operations:

Based on the plant's usage records for operating 19 hr/day and 247 days/yr, the potential VOC emissions from non-aerosol cleaning and machining operations are:

$$\begin{aligned} \text{Potential VOC emissions} &= 3173 \text{ lb actual usage/yr} / (19 * 247 \text{ hr/yr}) * 8760 \text{ hr/yr} * (1/2000) \text{ ton/lb} \\ &= 2.96 \text{ ton/yr} \end{aligned}$$

MSDS of materials used for cleaning and machining indicate that following HAPs were used:

Glycol Ethers

Actual	288 lb/yr
Potential	$288 \text{ lb/yr} / (19 * 247 \text{ hr/yr}) * 8760 \text{ hr/yr} * (1/2000) \text{ lb/ton} = 0.27 \text{ ton/yr}$

Methylene Chloride

Actual	22.5 lb/yr
Potential	$22.5 \text{ lb/yr} / (19 * 247 \text{ hr/yr}) * 8760 \text{ hr/yr} * (1/2000) \text{ lb/ton} = 0.02 \text{ ton/yr}$

II. GPL Final Wash Usages:

6660 gallons of GPL Final Wash were consumed for 16.25 hr/day and 247 day/yr. The material contains 0.4909 lb VOC per gallon and 0.236 lb HAP (glycol ether) per gallon.

$$\begin{aligned} \text{Potential VOC emissions} &= 0.4909 \text{ lb VOC/gal} * 6660 \text{ gal/yr} / (16.25 * 247 \text{ hr/yr}) * 8760 \text{ hr/yr} * 1/2000 \text{ lb/ton} \\ &= 3.57 \text{ ton/yr} \end{aligned}$$

$$\begin{aligned} \text{Potential HAP (glycol ether) emissions} &= 0.236 \text{ lb VOC/gal} * 6660 \text{ gal/yr} / (16.25 * 247 \text{ hr/yr}) * 8760 \text{ hr/yr} * 1/2000 \text{ lb/ton} \\ &= 1.72 \text{ ton/yr} \end{aligned}$$

**Appendix A: Emission Calculations
VOC Emissions From Degreasing Operations**

Company Name: Jasper Engine Exchange, Inc.
Address City IN Zip: 815 Wernsing Road, Jasper, IN 47547
Permit No.: T037-17555-00089
Reviewer: Alic Bent/EVP
Date: September 16, 2003

State Potential Emissions (uncontrolled):									
Material	Process	Date Unit Installed	Density (Lb/Gal)	Weight % Volatile (H2O& Organics)	Weight % Water	Weight % Organics	Maximum Usage (gal/day)	Potential VOC pounds per day	Potential VOC tons per year
Units in Existence before 10/7/74									
Mineral Sprit	Service Area (D269)	1967	6.59	100.00%	0.00%	100.00%	1.0	6.59	1.20
Mineral Sprit	Gas Hed, Skid, Pan Revomal	1967	6.59	100.00%	0.00%	100.00%	0.5	3.30	0.60
Mineral Sprit	Trans Prep-Sanding Stations	1970	6.59	100.00%	0.00%	100.00%	0.5	3.30	0.60
Mineral Sprit	Gas & Transmission Warranty (G262)	1970	6.59	100.00%	0.00%	100.00%	0.5	3.30	0.60
Mineral Sprit	Transmission Builders-24 Pans	1970	6.59	100.00%	0.00%	100.00%	2.0	13.18	2.41
Mineral Sprit	Diesel Fuel Room (D266)	1970	6.59	100.00%	0.00%	100.00%	2.0	13.18	2.41
Mineral Sprit	Diesel Fuel Room (D267)	1970	6.59	100.00%	0.00%	100.00%	2.0	13.18	2.41
Mineral Sprit	Diesel Teardown Soak Tank (D261)	1970	6.59	100.00%	0.00%	100.00%	1.5	9.89	1.80
Mineral Sprit	Diesel Wash	1970	6.59	100.00%	0.00%	100.00%	5.0	32.95	6.01
Mineral Sprit	Diesel Assembly (D263)	1970	6.59	100.00%	0.00%	100.00%	1.0	6.59	1.20
Mineral Sprit	Diesel Dyno	1970	6.59	100.00%	0.00%	100.00%	1.0	6.59	1.20
Formula 555	Transmission Department	1967	9.91	77.20%	72.0% methylene chloride	5.20%	2.0	1.03	0.19
Subtotal									20.63
Units in Existence after 10/7/74 and before 1/1/80									
Mineral Sprit	Oil Pump Rinse (G260)	1975	6.59	100.00%	0.00%	100.00%	0.5	3.30	0.60
Mineral Sprit	Gas Skid Wash	1975	6.59	100.00%	0.00%	100.00%	12.0	79.08	14.43
Mineral Sprit	Diesel Sanding Station	1975	6.59	100.00%	0.00%	100.00%	0.5	3.30	0.60
Mineral Sprit	Tool & Die Soak Tank (T262-CLT069)	1975	6.59	100.00%	0.00%	100.00%	0.5	3.30	0.60
Mineral Sprit	Transmission Case Rinse-Teardown (T261)	1975	6.59	100.00%	0.00%	100.00%	5.0	32.95	6.01
Mineral Sprit	Transmission Rinse-Valve Body (T262-CLT072)	1975	6.59	100.00%	0.00%	100.00%	10.0	65.90	12.03
Mineral Sprit	Transmission Prep Area NW (T265)	1976	6.59	100.00%	0.00%	100.00%	2.0	13.18	2.41
Mineral Sprit	Transmission Prep Area NE (T266)	1976	6.59	100.00%	0.00%	100.00%	2.0	13.18	2.41
Subtotal									39.09
Units in Existence after 1/1/80 and before 7/1/90									
Mineral Sprit	Transmission Prep Area SW (T267)	1984	6.59	100.00%	0.00%	100.00%	2.0	13.18	2.41
Mineral Sprit	Alum Head Parts Rinse (G265)	1984	6.59	100.00%	0.00%	100.00%	0.5	3.30	0.60
Mineral Sprit	Oil Pump/Timing Cover Rinse (G263)	1984	6.59	100.00%	0.00%	100.00%	1.0	6.59	1.20
Mineral Sprit	High Performance #1 (G272)	1985	6.59	100.00%	0.00%	100.00%	0.5	3.30	0.60
Mineral Sprit	Aluminum Head Flush (G270)	1985	6.59	100.00%	0.00%	100.00%	2.0	13.18	2.41
Mineral Sprit	Diesel Assembly (D268)	1987	6.59	100.00%	0.00%	100.00%	1.0	6.59	1.20
Mineral Sprit	Oil Cooler Flush (D270)	1988	6.59	100.00%	0.00%	100.00%	0.5	3.30	0.60
Mineral Sprit	Diesel Assembly (D265)	1988	6.59	100.00%	0.00%	100.00%	1.0	6.59	1.20
Subtotal									10.22
Unit in Existence after 7/1/90									
Mineral Sprit	Diesel Assembly-Filter Base (D271)	1992	6.59	100.00%	0.00%	100.00%	2.0	13.18	2.41
Mineral Sprit	Diesel Assembly (D264)	1992	6.59	100.00%	0.00%	100.00%	1.0	6.59	1.20
Mineral Sprit	Cam Rinse (G266)	1992	6.59	100.00%	0.00%	100.00%	0.5	3.30	0.60
Mineral Sprit	Lifter Rinse (T261)	1992	6.59	100.00%	0.00%	100.00%	2.0	13.18	2.41
Mineral Sprit	Torque Converter Rinse Table (T264)	1994	6.59	100.00%	0.00%	100.00%	2.0	13.18	2.41
Mineral Sprit	Transmission Rinse Table - H.D. (T263)	1994	6.59	100.00%	0.00%	100.00%	5.0	32.95	6.01
Mineral Sprit	High Performance #2 (G273)	1994	6.59	100.00%	0.00%	100.00%	0.5	3.30	0.60
Mineral Sprit	High Performance #3 (G274)	1994	6.59	100.00%	0.00%	100.00%	0.5	3.30	0.60
Mineral Sprit	Quality Control (G271)	1994	6.59	100.00%	0.00%	100.00%	0.5	3.30	0.60
Mineral Sprit	Diesel Warranty Disassembly (D262)	1995	6.59	100.00%	0.00%	100.00%	1.5	9.89	1.80
Mineral Sprit	Gas Bold Sorting Area (G264)	1995	6.59	100.00%	0.00%	100.00%	0.5	3.30	0.60
Mineral Sprit	Gas Head (G276)	1996	6.59	100.00%	0.00%	100.00%	0.0	0.00	0.00
Mineral Sprit	Transmission Prep Area SE (T268)	1996	6.59	100.00%	0.00%	100.00%	2.0	13.18	2.41
Subtotal									21.65
Total Potential Emissions:									91.59

Methodology:

Potential VOC Tons per Year = Pounds of VOC per Gallon Solvent (lb/gal) * Solvent Usage Rate (gal/day) * (365 day/yr) * (1 ton/2000 lbs)

**Appendix A: Emission Calculations
From Fuel Combustion Operations**

Company Name: Jasper Engine Exchange, Inc.
Address City IN Zip: 815 Wernsing Road, Jasper, IN 47547
Permit No.: T037-17555-00089
Reviewer: Alic Bent/EVP
Date: 2-Feb-04

Potential Emissions (uncontrolled):															
Source Type	No. of Equip.	Total Capacity (mmBtu/hr)	Fuel Usage (mmcf/yr) or (1000 gal/yr)	Emission Factors (lb/unit) (a)						Potential Emissions (ton/yr)					
				PM	PM10	SO2	NOx	VOC	CO	PM	PM10	SO2	NOx	VOC	CO
Non-Engine Units															
Nat. Gas Fired Heaters (<0.3 mmBtu/hr) (b)	109	10.37	90.8	7.6	7.6	0.6	94.0	11.0	40.0	0.3	0.3	0.0	4.3	0.5	1.8
Nat. Gas Fired Heaters (>0.3 & < 10 mmBtu/hr) (c)	24	19.44	170.3	7.6	7.6	0.6	100.0	5.5	84.0	0.6	0.6	0.1	8.5	0.5	7.2
Waste Oil Fired Heaters (d)	2	0.40	11.7	2.8	2.8	3.0	11.0	1.0	1.7	0.0	0.0	0.0	0.1	0.0	0.0
Nat. Gas Fired Boiler (c)	1	4.50	39.4	7.6	7.6	0.6	100.0	5.5	84.0	0.1	0.1	0.0	2.0	0.1	1.7
Engines (unlimited)															
IC Engines - Nat. Gas Fired (e)	28	13.91	121.9	10.0	10.0	0.6	3400.0	82.9	430.0	0.6	0.6	0.0	207.2	5.1	26.2
IC Engines - Diesel Fuel Fired (f)	4	35.00	2221.7	0.31	0.31	0.29	4.41	0.36	0.95	47.5	47.5	44.5	676.1	55.2	145.6
IC Engines - Gasoline Fired (g)	2	14.00	4772.5	0.10	0.10	0.08	1.63	3.03	62.70	6.1	6.1	5.2	100.0	185.8	3844.8
Total Potential Emissions:										55.4	55.4	49.8	998.0	247.1	4027.2
Engines (limited)															
IC Engines - Nat. Gas Fired (e)	28	13.91	119.7	10.0	10.0	0.6	3400.0	82.9	430.0	0.6	0.6	0.0	203.5	5.0	25.7
IC Engines - Diesel Fuel Fired (f)	4	35.00	100.0	0.31	0.31	0.29	4.41	0.36	0.95	2.1	2.1	2.0	30.4	2.5	6.6
IC Engines - Gasoline Fired (g)	2	14.00	10.0	0.10	0.10	0.08	1.63	3.03	62.70	0.0	0.0	0.0	0.2	0.4	8.1
Total Limited Emissions:										3.9	3.9	2.2	248.9	8.9	51.0

Methodology:

- (a) Unit = mmcf for natural gas; 1000 gallons for waste oil; and mmBtu for IC Engines liquid fuel combustion
 (b) Emission Factors from AP-42, Chapter 1.4, No SCC
 (c) Emission Factors from AP-42, Chapter 1.4, SCC #1-03-006-03
 (d) Emission Factors from AP-42, Chapter 1.11, SCC #1-05-001-14 & #1-05-002-14; using a maximum ash content of 1% and a maximum sulfur content of 0.03%.
 (e) Emission Factors from AP-42, Chapter 3.3, SCC #2-02-001-02 & #2-03-001-01
 (f) Emission Factors from EPA 450/4-90-003, SCC #2-01-002-02
 (g) Emission Factors from AP-42, Chapter 3.3, SCC #2-02-003-02 & #2-03-003-01
 (h) The source will limit the IC Engine combustions to: (1) 10,000 gal/yr of gasoline; (2) 100,000 gal/yr of diesel fuel; and (3) 119.7 mmSCF/yr of natural gas.
 These limitations will limit source wide VOC, NOx and CO emissions to less than 250 tons/yr. Therefore, the requirements of PSD, 326 IAC 2-2, do not apply.

**Appendix A: Emission Calculations
From Fuel Combustion Operations**

Company Name: Jasper Engine Exchange, Inc.
Address City IN Zip: 815 Wernsing Road, Jasper, IN 47547
Permit No.: T037-17555-00089
Reviewer: Alic Bent/EVP
Date: 2-Feb-04

Potential Emissions (uncontrolled):															
Source Type	No. of Equip.	Total Capacity (mmBtu/hr)	Fuel Usage (mmcf/yr) or (1000 gal/yr)	Emission Factors (lb/unit) (a)						Potential Emissions (ton/yr)					
				PM	PM10	SO2	NOx	VOC	CO	PM	PM10	SO2	NOx	VOC	CO
Non-Engine Units															
Nat. Gas Fired Heaters (<0.3 mmBtu/hr) (b)	109	10.37	90.8	7.6	7.6	0.6	94.0	11.0	40.0	0.3	0.3	0.0	4.3	0.5	1.8
Nat. Gas Fired Heaters (>0.3 & < 10 mmBtu/hr) (c)	24	19.44	170.3	7.6	7.6	0.6	100.0	5.5	84.0	0.6	0.6	0.1	8.5	0.5	7.2
Waste Oil Fired Heaters (d)	2	0.40	11.7	2.8	2.8	3.0	11.0	1.0	1.7	0.0	0.0	0.0	0.1	0.0	0.0
Nat. Gas Fired Boiler (c)	1	4.50	39.4	7.6	7.6	0.6	100.0	5.5	84.0	0.1	0.1	0.0	2.0	0.1	1.7
Engines (unlimited)															
IC Engines - Nat. Gas Fired (e)	28	13.91	121.9	10.0	10.0	0.6	3400.0	82.9	430.0	0.6	0.6	0.0	207.2	5.1	26.2
IC Engines - Diesel Fuel Fired (f)	4	35.00	2221.7	0.31	0.31	0.29	4.41	0.36	0.95	47.5	47.5	44.5	676.1	55.2	145.6
IC Engines - Gasoline Fired (g)	2	14.00	4772.5	0.10	0.10	0.08	1.63	3.03	62.70	6.1	6.1	5.2	100.0	185.8	3844.8
Total Potential Emissions:										55.4	55.4	49.8	998.0	247.1	4027.2
Engines (limited)															
IC Engines - Nat. Gas Fired (e)	28	13.91	119.7	10.0	10.0	0.6	3400.0	82.9	430.0	0.6	0.6	0.0	203.5	5.0	25.7
IC Engines - Diesel Fuel Fired (f)	4	35.00	100.0	0.31	0.31	0.29	4.41	0.36	0.95	2.1	2.1	2.0	30.4	2.5	6.6
IC Engines - Gasoline Fired (g)	2	14.00	10.0	0.10	0.10	0.08	1.63	3.03	62.70	0.0	0.0	0.0	0.2	0.4	8.1
Total Limited Emissions:										3.9	3.9	2.2	248.9	8.9	51.0

Methodology:

- (a) Unit = mmcf for natural gas; 1000 gallons for waste oil; and mmBtu for IC Engines liquid fuel combustion
 (b) Emission Factors from AP-42, Chapter 1.4, No SCC
 (c) Emission Factors from AP-42, Chapter 1.4, SCC #1-03-006-03
 (d) Emission Factors from AP-42, Chapter 1.11, SCC #1-05-001-14 & #1-05-002-14; using a maximum ash content of 1% and a maximum sulfur content of 0.03%.
 (e) Emission Factors from AP-42, Chapter 3.3, SCC #2-02-001-02 & #2-03-001-01
 (f) Emission Factors from EPA 450/4-90-003, SCC #2-01-002-02
 (g) Emission Factors from AP-42, Chapter 3.3, SCC #2-02-003-02 & #2-03-003-01
 (h) The source will limit the IC Engine combustions to: (1) 10,000 gal/yr of gasoline; (2) 100,000 gal/yr of diesel fuel; and (3) 119.7 mmSCF/yr of natural gas.
 These limitations will limit source wide VOC, NOx and CO emissions to less than 250 tons/yr. Therefore, the requirements of PSD, 326 IAC 2-2, do not apply.

Appendix A: Emission Calculations
HAP Emissions From Surface Coating Operations

Company Name: Jasper Engine Exchange
Plant Location: 815 Wernsing Rd, Jasper, IN 47547
Permit #: T037-17555-00089
Permit Reviewer: Alic Bent/EVP
Date: September 22, 2003

Material	Density (Lb/Gal)	Gal of Mat (gal/unit)	Maximum (unit/hour)	Weight % Xylene	Weight % Toluene	Weight % MEK	Weight % Cobalt	Weight % Methylene Chloride	Weight % Ethylene Glycol	Xylene (ton/yr)	Toluene (ton/yr)	MEK (ton/yr)	Cobalt (ton/yr)	Methylene Chloride (ton/yr)	Ethylene Glycol (ton/yr)	Total
Engine Paint Booth																
P1432 Gray	7.45	0.040	30.00	0.00%	9.88%	3.90%	0.00%	0.00%	0.47%	0.00	3.87	1.53	0.00	0.00	0.18	5.58
P1438 Black	7.35	0.040	30.00	8.19%	12.17%	0.00%	0.00%	0.00%	0.00%	3.16	4.70	0.00	0.00	0.00	0.00	7.87
VM & P Naphtha	6.20	0.060	30.00	0.00%	1.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.49	0.00	0.00	0.00	0.00	0.49
Stern Drive Paint Booth																
Yellow Primer	9.03	0.040	3.00	5.18%	8.97%	9.04%	0.00%	0.00%	0.00%	0.25	0.43	0.43	0.00	0.00	0.00	1.10
Gray Primer	10.16	0.040	3.00	10.39%	5.00%	6.79%	0.00%	0.00%	0.00%	0.55	0.27	0.36	0.00	0.00	0.00	1.18
Black Enamel	7.82	0.040	3.00	31.57%	1.64%	2.90%	0.00%	0.00%	0.00%	1.30	0.07	0.12	0.00	0.00	0.00	1.48
Dark Grey	7.85	0.040	3.00	34.54%	10.44%	0.00%	0.00%	0.00%	0.00%	1.42	0.43	0.00	0.00	0.00	0.00	1.86
Oyster White	9.40	0.040	3.00	28.15%	7.75%	0.00%	0.00%	0.00%	0.00%	1.39	0.38	0.00	0.00	0.00	0.00	1.77
Radiators Paint Booth																
P1439 Black	8.93	0.100	10.00	0.00%	10.70%	25.30%	0.00%	0.00%	2.60%	0.00	4.19	9.90	0.00	0.00	1.02	15.10
Diesel Engine Paint Booth																
P1043 Tan	7.49	0.500	3.00	0.00%	7.49%	3.90%	0.00%	0.00%	0.47%	0.00	3.69	1.92	0.00	0.00	0.23	5.83
P1350 Blue	7.74	0.500	3.00	0.00%	9.20%	3.90%	0.00%	0.00%	0.47%	0.00	4.68	1.98	0.00	0.00	0.24	6.90
P1352 Lt Green	7.60	0.500	3.00	0.00%	8.88%	3.90%	0.08%	0.08%	0.47%	0.00	4.44	1.95	0.04	0.04	0.23	6.70
P1398 Red	7.76	0.500	3.00	0.00%	17.59%	3.90%	0.08%	0.08%	0.47%	0.00	8.97	1.99	0.04	0.04	0.24	11.28
P1421 Yellow	8.36	0.500	3.00	29.59%	4.03%	3.90%	0.00%	0.00%	0.47%	16.25	2.21	2.14	0.00	0.00	0.26	20.86
P1432 Grey	7.45	0.500	3.00	0.00%	9.88%	3.90%	0.08%	0.08%	0.47%	0.00	4.84	1.91	0.04	0.04	0.23	7.05
P 1436 LF Green	7.80	0.500	3.00	0.00%	9.20%	3.90%	0.00%	0.00%	0.47%	0.00	4.71	2.00	0.00	0.00	0.24	6.95
P1438 Black	7.35	0.500	3.00	8.19%	12.17%	0.00%	0.08%	0.08%	0.00%	3.95	5.88	0.00	0.04	0.04	0.00	9.91
Transmission, Converter, Axle Housing, Differential Paint Booth																
L1964	7.25	0.040	2.00	0.00%	32.27%	17.52%	0.00%	0.00%	0.47%	0.00	0.82	0.45	0.00	0.00	0.01	1.28
P1113 Primer	8.62	0.040	2.00	0.00%	7.65%	3.90%	0.00%	0.00%	0.47%	0.00	0.23	0.12	0.00	0.00	0.01	0.36
P1350 Blue	7.74	0.040	2.00	0.00%	9.20%	3.90%	0.00%	0.00%	0.47%	0.00	0.25	0.11	0.00	0.00	0.01	0.37
P1432 Grey	7.45	0.040	2.00	0.00%	9.88%	3.90%	0.00%	0.00%	0.47%	0.00	0.26	0.10	0.00	0.00	0.01	0.37
P1434 Aluminum	7.43	0.040	2.00	0.00%	9.46%	3.90%	0.08%	0.08%	0.47%	0.00	0.25	0.10	0.00	0.00	0.01	0.36
P 1436 LF Green	7.80	0.040	2.00	0.00%	9.20%	3.90%	0.00%	0.00%	0.47%	0.00	0.25	0.11	0.00	0.00	0.01	0.37
P1438 Black	7.35	0.040	2.00	8.19%	12.17%	0.00%	0.00%	0.00%	0.00%	0.21	0.31	0.00	0.00	0.00	0.00	0.52
Thinner for Cleaning																
T260 Thinner	6.54	0.200 Gal/hr		0.00%	37.00%	15.80%	0.00%	0.00%	0.00%	0.00	2.12	0.91	0.00	0.00	0.00	3.02
Degreasing Operation in Transmission Dept.																
Formula 555	9.91	0.200 Gal/hr		0.00%	0.00%	0.00%	0.00%	0.00%	72.00%	0.00	0.00	0.00	0.00	0.00	6.25	6.25
Total Potential Emissions										21.05	21.71	15.34	0.04	0.04	7.72	65.92

METHODOLOGY

(a) Material usages in each paint booth are mutually exclusive.

(b) HAPS emission rate (tons/yr) = Density (lb/gal) * Gal of Material (gal/unit) * Maximum (unit/hr) * Weight % HAP * 8760 hrs/yr * 1 ton/2000 lbs

**Appendix A: Emissions Calculations
HAPs from Aerosol Spray Operations**

Company Name: Jasper Engine Exchange, Inc
Address City In Zip: 815 Wernsing Road, Jasper, IN 47547
Permit No.: T037-17555-00089
Reviewer: Alic Bent/EVP
Date: 23-Sep-03

Potential Emissions (uncontrolled)																
Material (as applied)	Type	Net Weight per Can (lb/can)	Maximum Usage (cans/yr)	Trichloroethylene	MEK	MIBK	Lead	Methylene chl.	Toluene	1,1,1 Trichloroethylene	Xylene	Ethyl Benzene	Hexane	Glycol Ethers	Total (tons/yr)	
				Weight % tons/yr	Weight % tons/yr	Weight % tons/yr	Weight % tons/yr	Weight % tons/yr		Weight % tons/yr						
3M 90	Adhesive	1.031	622	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.0000
3M Super 77	Adhesive	1.031	1881	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	2.00%	0.00%	0.00%	0.0194
711	Penetrating Oil	0.688	1214	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	5.00%	0.00%	0.0209
744	Penetrant Dye	0.563	396	0.00%	0.00%	0.00%	0.00%	0.00%	7.00%	0.00%	0.00%	0.00%	0.00%	15.00%	0.00%	0.0245
745	Developer	0.563	492	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	62.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.0858
BBQ Black 150	Paint	0.688	35	0.00%	0.00%	0.00%	0.00%	0.00%	10.00%	0.00%	3.00%	0.00%	0.00%	0.00%	0.00%	0.0015
Cast Blast	Paint	0.750	632	0.00%	0.00%	0.00%	0.00%	0.00%	43.20%	0.00%	6.33%	1.58%	0.00%	0.00%	0.00%	0.1211
Crest	Leak Trace	1.000	350	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	39.00%	0.00%	0.00%	0.0682
Crown 6090N PR.Blue	Blue Marking Fluid	0.313	10	70.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.0011
DGF K5200K	Graphite Spray	0.563	3154	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.0000
Dykem Steel Blue	Layout Fluid	1.000	12	0.00%	2.03%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.0001
Engine Enamel C 1	Paint Column 1	0.688	6301	0.00%	0.00%	5.00%	0.00%	0.00%	0.00%	0.00%	10.00%	0.00%	0.00%	0.00%	0.00%	0.3249
Engine Enamel C 2	Paint Column 2	0.688	548	0.00%	0.00%	5.00%	3.00%	0.00%	0.00%	0.00%	10.00%	0.00%	0.00%	0.00%	0.00%	0.0339
Engine Enamel C 3	Paint Column 3	0.688	1247	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	38.00%	0.00%	0.00%	0.00%	0.00%	0.1629
LAS 16	Welding Anti Spat	0.750	323	0.00%	0.00%	0.00%	0.00%	84.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.1017
Locquic Primer T	Loctite Primer	0.375	119	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	90.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.0201
LPS 2	Penetrating Oil	0.688	3485	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.0000
MF-10RI	Paint, Red Insulator	0.938	576	0.00%	0.00%	0.00%	0.00%	0.00%	5.00%	0.00%	20.00%	0.00%	0.00%	0.00%	0.00%	0.0675
MF-11 CC	Contact Cleaner	1.000	515	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	95.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.2446
Muscle AC-C	Carburetor Cleaner	0.953	2463	0.00%	0.00%	4.00%	0.00%	0.00%	37.00%	0.00%	16.00%	4.00%	0.00%	0.00%	0.00%	0.7159
OMC Charcoal	Paint	1.000	12	0.00%	0.00%	0.00%	0.00%	19.27%	23.62%	0.00%	0.38%	0.00%	0.00%	1.23%	0.00%	0.0026
Pioneer Copper	Gasket Cement 4000	0.563	296	0.00%	0.00%	0.00%	0.00%	12.00%	1.00%	0.00%	0.00%	0.00%	2.00%	0.00%	0.00%	0.0125
Super Enamel Red Oxide	Paint T-19	0.688	254	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	40.00%	0.00%	0.00%	0.00%	0.00%	0.0349
Tractor Colors	Paint	0.688	346	0.00%	0.00%	5.00%	0.00%	0.00%	0.00%	0.00%	10.00%	0.00%	0.00%	0.00%	0.00%	0.0178
Total Potential Emissions:				0.0011	0.0001	0.1765	0.0056	0.1128	0.5535	0.3504	0.7141	0.0507	0.0892	0.0209	0.2050	2.0750

Methodology:
 Potential VOC Emissions = Pounds per Aerosol Can (lb/can) * Maximum Usage (cans/yr) * VOC wt. % = lb VOC/yr * (1/2000) ton/lb = ton VOC / yr
 Potential PM Emissions = Pounds per Aerosol Can (lb/can) * Maximum Usage (cans/yr) * PM wt. % * (1 - transfer %) = lb PM/yr * (1/2000) ton/lb = ton PM / yr

**Appendix A: Emission Calculations
HAP Emissions from Combustion**

Company Name: Jasper Engine Exchange, Inc.
Plant Location: 815 Wernsing Road, Jasper, IN 47547
Permit No.: T037-17555-00089
Reviewer: Alic Bent/EVP
Date: September 23, 2003

Emission Factors													
Source Type	Total Capacity (mmBtu/HR)	Fuel Usage (mmcf/yr) or (1000 gal/yr)	Emission Factors (lb/unit) (a)										
			Benzene	Ethylbenzene	Xylene	Toluene	Formaldehyde	Chromium	Nickel	Phosphorous	Total PAH		
Non-Engine Units													
Nat. Gas Fired Heaters (<0.3 mmBtu/hr)	10.37	90.8	0.00000	0.0000	0.0000	0.0022	0.0155	0.0000	0.0000	0.0000	0.0000	0.0000	
Nat. Gas Fired Heaters (>0.3 & < 10 mmBtu/h)	19.44	170.3	0.00000	0.0000	0.0000	0.0022	0.0155	0.0000	0.0000	0.0000	0.0000	0.0000	
Waste Oil Fired Heaters	0.40	11.7	0.00000	0.0000	0.0000	0.0000	0.0000	0.1900	0.0500	0.0360	0.0000		
Nat. Gas Fired Boiler	4.50	39.4	0.00000	0.0000	0.0000	0.0022	0.0155	0.0000	0.0000	0.0000	0.0000	0.0000	
Engines													
IC Engines - Nat. Gas Fired (a)	18.16	159.1	0.00045	0.0002	0.0007	0.0005	0.3662	0.0000	0.0000	0.0000	0.0000	0.0000	
IC Engines - Diesel Fuel Fired	36.75	2332.8	0.00000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0002	
IC Engines - Gasoline Fired	14.00	4772.5	0.00000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Uncontrolled Emissions													
Source Type	Total Capacity (mmBtu/HR)	Fuel Usage (mmcf/yr) or (1000 gal/yr)	Potential Emissions (Uncontrolled)										
			Benzene (tons/yr)	Ethylbenzene (tons/yr)	Xylene (tons/yr)	Toluene (tons/yr)	Formaldehyde (tons/yr)	Chromium (tons/yr)	Nickel (tons/yr)	Phosphorous (tons/yr)	Total PAH (tons/yr)	Total	
Non-Engine Units													
Nat. Gas Fired Heaters (<0.3 mmBtu/hr)	3.89	90.8	0.00000	0.00000	0.00000	0.00010	0.00070	0.00000	0.00000	0.00000	0.00000	0.00000	0.00080
Nat. Gas Fired Heaters (>0.3 & < 10 mmBtu/h)	14.49	170.3	0.00000	0.00000	0.00000	0.00019	0.00132	0.00000	0.00000	0.00000	0.00000	0.00000	0.00151
Waste Oil Fired Heaters	0.40	11.7	0.00000	0.00000	0.00000	0.00000	0.00000	0.00111	0.00029	0.00021	0.00000	0.00161	
Nat. Gas Fired Boiler	8.50	39.4	0.00000	0.00000	0.00000	0.00004	0.00031	0.00000	0.00000	0.00000	0.00000	0.00035	
Engines (unlimited)													
IC Engines - Nat. Gas Fired	18.16	159.1	0.0004	0.0002	0.0005	0.0004	0.02913	0.00000	0.00000	0.00000	0.00000	0.02928	
IC Engines - Diesel Fuel Fired	36.75	2332.8	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	1.71657	1.71657	
IC Engines - Gasoline Fired	14.00	4772.5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
Total Potential Emissions (unlimited)			0.00004	0.00002	0.00005	0.00037	0.03146	0.00111	0.00029	0.00021	1.71657	1.75012	
Limited Emissions													
Engines (limited) (b)													
IC Engines - Nat. Gas Fired	18.16	119.7	0.00003	0.00001	0.00004	0.00003	0.02192	0.00000	0.00000	0.00000	0.00000	0.02203	
IC Engines - Diesel Fuel Fired	36.75	100.0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.07358	0.07358	
IC Engines - Gasoline Fired	14.00	10.0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
Total Limited Emissions (c)			0.00003	0.00001	0.00004	0.00036	0.02425	0.00111	0.00029	0.00021	0.07358	0.09561	

Methodology:

- (a) Unit = mmcf for natural gas; 1000 gallons for waste oil; and mmBtu for IC Engines liquid fuel combustion
- (b) The source will limit the IC Engine combustions to (1) 10,000 gal/yr gasoline; (2) 100,000 gal/yr of diesel fuel; and (3) 119.7 mmCF/yr of natural gas.
- (c) Total limited emissions include emissions from non-engine units.

**Appendix A: Emission Calculations
HAP Emissions from Combustion**

Company Name: Jasper Engine Exchange, Inc.
Plant Location: 815 Wernsing Road, Jasper, IN 47547
Permit No.: T037-17555-00089
Reviewer: Alic Bent/EVP
Date: January 2, 2004

Emission Factors													
Source Type	Total Capacity (mmBtu/HR)	Fuel Usage (mmcf/yr) or (1000 gal/yr)	Emission Factors (lb/unit) (a)										
			Benzene	Ethylbenzene	Xylene	Toluene	Formaldehyde	Chromium	Nickel	Phosphorous	Total PAH		
Non-Engine Units													
Nat. Gas Fired Heaters (<0.3 mmBtu/hr)	10.37	90.8	0.00000	0.0000	0.0000	0.0022	0.0155	0.0000	0.0000	0.0000	0.0000	0.0000	
Nat. Gas Fired Heaters (>0.3 & < 10 mmBtu/h)	19.44	170.3	0.00000	0.0000	0.0000	0.0022	0.0155	0.0000	0.0000	0.0000	0.0000	0.0000	
Waste Oil Fired Heaters	0.40	11.7	0.00000	0.0000	0.0000	0.0000	0.0000	0.1900	0.0500	0.0360	0.0000		
Nat. Gas Fired Boiler	4.50	39.4	0.00000	0.0000	0.0000	0.0022	0.0155	0.0000	0.0000	0.0000	0.0000	0.0000	
Engines													
IC Engines - Nat. Gas Fired (a)	13.91	159.1	0.00045	0.0002	0.0007	0.0005	0.3662	0.0000	0.0000	0.0000	0.0000	0.0000	
IC Engines - Diesel Fuel Fired	35.00	2332.8	0.00000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0002	
IC Engines - Gasoline Fired	14.00	4772.5	0.00000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Uncontrolled Emissions													
Source Type	Total Capacity (mmBtu/HR)	Fuel Usage (mmcf/yr) or (1000 gal/yr)	Potential Emissions (Uncontrolled)										
			Benzene (tons/yr)	Ethylbenzene (tons/yr)	Xylene (tons/yr)	Toluene (tons/yr)	Formaldehyde (tons/yr)	Chromium (tons/yr)	Nickel (tons/yr)	Phosphorous (tons/yr)	Total PAH (tons/yr)	Total	
Non-Engine Units													
Nat. Gas Fired Heaters (<0.3 mmBtu/hr)	3.89	90.8	0.00000	0.00000	0.00000	0.00010	0.00070	0.00000	0.00000	0.00000	0.00000	0.00000	0.00080
Nat. Gas Fired Heaters (>0.3 & < 10 mmBtu/h)	14.49	170.3	0.00000	0.00000	0.00000	0.00019	0.00132	0.00000	0.00000	0.00000	0.00000	0.00000	0.00151
Waste Oil Fired Heaters	0.40	11.7	0.00000	0.00000	0.00000	0.00000	0.00000	0.00111	0.00029	0.00021	0.00000	0.00161	
Nat. Gas Fired Boiler	8.50	39.4	0.00000	0.00000	0.00000	0.00004	0.00031	0.00000	0.00000	0.00000	0.00000	0.00035	
Engines (unlimited)													
IC Engines - Nat. Gas Fired	13.91	159.1	0.0004	0.0002	0.0005	0.0004	0.02913	0.00000	0.00000	0.00000	0.00000	0.02928	
IC Engines - Diesel Fuel Fired	35.00	2332.8	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	1.71657	1.71657	
IC Engines - Gasoline Fired	14.00	4772.5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
Total Potential Emissions (unlimited)			0.00004	0.00002	0.00005	0.00037	0.03146	0.00111	0.00029	0.00021	1.71657	1.75012	
Limited Emissions													
Engines (limited) (b)													
IC Engines - Nat. Gas Fired	18.16	119.7	0.00003	0.00001	0.00004	0.00003	0.02192	0.00000	0.00000	0.00000	0.00000	0.02203	
IC Engines - Diesel Fuel Fired	36.75	100.0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.07358	0.07358	
IC Engines - Gasoline Fired	14.00	10.0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
Total Limited Emissions (c)			0.00003	0.00001	0.00004	0.00036	0.02425	0.00111	0.00029	0.00021	0.07358	0.09561	

Methodology:

- (a) Unit = mmcf for natural gas; 1000 gallons for waste oil; and mmBtu for IC Engines liquid fuel combustion
 (b) The source will limit the IC Engine combustions to (1) 10,000 gal/yr gasoline; (2) 100,000 gal/yr of diesel fuel; and (3) 119.7 mmCF/yr of natural gas.
 (c) Total limited emissions include emissions from non-engine units.

**Appendix A: Emission Calculations
Particulate Matter**

Company Name: Jasper Engine Exchange, Inc.
Address City IN Zip: 815 Wernsing Road, Jasper, IN 47547
Permit No.: T037-17555-00089
Reviewer: Alic Bent/EVP
Date: 17-Sep-03

ID #	Outlet Loading (gr/acf)	CFM	Control Efficiency	Allowable Emissions	Uncontrolled Emissions (ton/yr) (b)	Controlled Emissions		Compliance with 326 IAC 6-1-2
				per 326 IAC 6-1-2 (lb/hr) (a)		(ton/yr)	(lb/hr)	
BLA007	0.000454	420	99.00%	0.11	0.716	7.16E-03	1.63E-03	Y
BLA009	0.000478	1250	99.80%	0.32	11.216	2.24E-02	5.12E-03	Y
BLA011	0.002272	420	99.00%	0.11	3.582	3.58E-02	8.18E-03	Y
BLA017	0.00837	750	99.00%	0.19	23.568	2.36E-01	5.38E-02	Y
BLA018	0.007573	420	99.00%	0.11	11.941	1.19E-01	2.73E-02	Y
BLA037	0.000292	600	99.99%	0.15	65.775	6.58E-03	1.50E-03	Y
DUC001	0.000059	4000	99.90%	1.03	8.860	8.86E-03	2.02E-03	Y
DUC002	0.000209	1200	99.00%	0.31	0.942	9.42E-03	2.15E-03	Y
DUC006	0.000003	18000	99.90%	4.63	2.027	2.03E-03	4.63E-04	Y
DUC015	0.000013	2200	99.90%	0.57	1.074	1.07E-03	2.45E-04	Y
DUC021	0.000024	2000	99.00%	0.51	0.180	1.80E-03	4.11E-04	Y
DUC027	0.000126	3000	99.90%	0.77	14.191	1.42E-02	3.24E-03	Y
DUC029	0.000002	6400	99.90%	1.65	0.481	4.81E-04	1.10E-04	Y
DUC051	0.0006	9500	98.00%	2.44	10.700	2.14E-01	4.89E-02	Y
DUC052	0.0006	15000	98.00%	3.86	16.894	3.38E-01	7.71E-02	Y
Total Emissions:				16.8	172.1	1.02	0.23	

Methodology:

(a) Pursuant to 326 IAC 6-1-2, allowable emissions are calculated by:

$$\text{Allowable emissions} = (0.03 \text{ gr/acf}) * \text{Air Flow Rate (cfm)} * 60 \text{ min/hr} * (1/7000) \text{ lb/gr} * 8760 \text{ hr/yr} / 2000 \text{ lb/ton} / (1 - \text{control efficiency})$$

(b) Potential emissions = Outlet loading (gr/acf) * Air Flow Rate (cfm) * 60 min/hr * (1/7000) lb/gr * 8760 hr/yr / 2000 lb/ton / (1-control efficiency)