

**PART 70 OPERATING PERMIT
and ENHANCED NEW SOURCE REVIEW
OFFICE OF AIR MANAGEMENT**

**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.

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 and 326 IAC 2-1-3.2 as required by 42 U.S.C. 7401, et. seq. (Clean Air Act as amended by the 1990 Clean Air Act Amendments), 40 CFR Part 70.6, IC 13-15 and IC 13-17.

Operation Permit No.: T037-7736-00089	
Issued by: Janet G. McCabe, Assistant Commissioner Office of Air Management	Issuance Date:

SECTION A SOURCE SUMMARY

This permit is based on information requested by the Indiana Department of Environmental Management (IDEM), Office of Air Management (OAM), and presented in the permit application.

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

The Permittee owns and operates a stationary engine, transmission and differential parts remanufacturing plant.

Responsible Official: Michael A. Schwenk
Source Address: 815 Wernsing Road, Jasper, IN 47547
Mailing Address: P. O. Box 650, Jasper, IN 47547-0650
SIC Code: 3714
County Location: Dubois
County Status: Attainment for all criteria pollutants
Source Status: Part 70 Permit Program
Minor Source, under PSD Rules;
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:

- (1) 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;
- (2) 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;
- (3) 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;
- (4) 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;
- (5) 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;
- (6) 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);
- (7) 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;

- (8) 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;
- (9) 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;
- (10) 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;
- (11) 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;
- (12) 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;
- (13) 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;
- (14) one (1) natural gas fired reciprocating internal combustion engine, identified as DYN019, with a rated heat input of 1.4 mmBtu/hr and a rated output of 120 HP;
- (15) 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;
- (16) three (3) baghouses, identified as DUC004, DUC005 and DUC023, 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
- (17) one (1) salt bath metal cleaning system, using a wet scrubber, identified as KOL003, for particulate emissions control.

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):

- (1) one (1) natural gas fired boiler, rated at 4.5 mmBtu/hr;
- (2) thirteen (13) degreasing units, identified as D271-CLT21, D264-CLT054, G266-CLT056, I261, T264-CLT039, T263-CLT048, G273-CLT017, G274-CLT019, G271-CLT043, D262-CLT080, G264-CLT083, G276-CLT042 and T268-CLT044, constructed after July 1, 1990;
- (3) eight (8) degreasing units, identified as T267-CLT051, G265, G263-CLT038, G272-CLT018, G270, D268-CLT020, D270-PEQ011 and D265-CLT053, constructed after January 1, 1980 and prior to July 1, 1990;
- (4) twenty (20) degreasing units constructed prior to January 1, 1980;

- (5) miscellaneous aerosol spray operations throughout the plant;
- (6) miscellaneous non-aerosol cleaning and machining operations throughout the plant;
- (7) GPL final wash usages throughout the plant;
- (8) 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;
- (9) seventeen (17) baghouses, identified as DUC001, DUC002, DUC003, DUC013, DUC014, DUC015, DUC017, DUC018, DUC019, DUC021, DUC022, DUC024, DUC027, DUC028, DUC030, DUC031 and DUC035, 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;
- (10) three (3) baghouses (ID Nos. DUC006, DUC020 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

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).

SECTION B GENERAL CONDITIONS

B.1 Permit No Defense [326 IAC 2-1-10] [IC 13]

- (a) Indiana statutes from IC 13 and rules from 326 IAC, quoted 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.
- (b) This prohibition shall not apply to alleged violations of applicable requirements for which the Commissioner has granted a permit shield in accordance with 326 IAC 2-1-3.2 or 326 IAC 2-7-15, as set out in this permit in the Section B condition entitled "Permit Shield."

B.2 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, any applicable definitions found in IC 13-11, 326 IAC 1-2 and 326 IAC 2-7 shall prevail.

B.3 Permit Term [326 IAC 2-7-5(2)]

This permit is issued for a fixed term of five (5) years from the effective date, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3.

B.4 Enforceability [326 IAC 2-7-7(a)]

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

B.5 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.6 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.7 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.8 Duty to Supplement and Provide Information [326 IAC 2-7-4(b)] [326 IAC 2-7-5(6)(E)]

- (a) The Permittee, upon becoming aware that any relevant facts were omitted or incorrect information was submitted in the permit application, shall promptly submit such supplementary facts or corrected information to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Management
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015
- (b) The Permittee shall furnish to IDEM, OAM within a reasonable time, any information that IDEM, OAM 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.
- (c) Upon request, the Permittee shall also furnish to IDEM, OAM copies of records required to be kept by this permit. If the Permittee wishes to assert a claim of confidentiality over any of the furnished records, the Permittee must furnish such records to IDEM, OAM along with a claim of confidentiality under 326 IAC 17. If requested by IDEM, OAM, or the U.S. EPA, to furnish copies of requested records directly to U. S. EPA, and if the Permittee is making a claim of confidentiality regarding the furnished records, then the Permittee must furnish such confidential records directly to the U.S. EPA along with a claim of confidentiality under 40 CFR 2, Subpart B.

B.9 Compliance with Permit Conditions [326 IAC 2-7-5(6)(A)] [326 IAC 2-7-5(6)(B)]

- (a) The Permittee must comply with all conditions of this permit. Noncompliance with any provisions of this permit constitutes a violation of the Clean Air Act and is grounds for:
 - (1) Enforcement action;
 - (2) Permit termination, revocation and reissuance, or modification; or
 - (3) Denial of a permit renewal application.

- (b) It shall not be a defense for the Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

B.10 Certification [326 IAC 2-7-4(f)] [326 IAC 2-7-6(1)]

- (a) Any application form, report, or compliance certification submitted under this permit shall contain certification by a responsible official of truth, accuracy, and completeness. This certification, and any other certification required under this permit, 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, on the attached Certification Form, with each submittal.
- (c) A responsible official is defined at 326 IAC 2-7-1(34).

B.11 Annual Compliance Certification [326 IAC 2-7-6(5)]

- (a) The Permittee shall annually submit a compliance certification report which addresses the status of the source's compliance with the terms and conditions contained in this permit, including emission limitations, standards, or work practices. The certification 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 Data Section, Office of Air Management
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, OAM on or before the date it is due.
- (c) The annual compliance certification report shall include the following:
 - (1) The identification of each term or condition of this permit that is the basis of the certification;
 - (2) The compliance status;
 - (3) Whether compliance was based on continuous or intermittent data;
 - (4) The methods used for determining compliance of the source, currently and over the reporting period consistent with 326 IAC 2-7-5(3);

- (5) Any insignificant activity that has been added without a permit revision; and
- (6) Such other facts, as specified in Sections D of this permit, as IDEM, OAM 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.12 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 prepare and maintain Preventive Maintenance Plans (PMP) within ninety (90) days after issuance of this permit, 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.

If due to circumstances beyond its control, the PMP cannot be prepared and maintained within the above time frame, the Permittee may extend the date an additional ninety (90) days provided the Permittee notifies:

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

- (b) The Permittee shall implement the Preventive Maintenance Plans as necessary to ensure that lack of proper maintenance does not cause or contribute to a violation of any limitation on emissions or potential to emit.
- (c) PMP's shall be submitted to IDEM, OAM upon request and shall be subject to review and approval by IDEM, OAM.

B.13 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, except as provided in 326 IAC 2-7-16.
- (b) An emergency, as defined in 326 IAC 2-7-1(12), constitutes an affirmative defense to an action brought for noncompliance with a health-based or 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, OAM 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 Management, 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 notice, either in writing or facsimile, of the emergency to:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Management
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) for sources subject to this rule after the effective date of this rule. This permit condition is in addition to any emergency or upset provision contained in any applicable requirement.

- (e) IDEM, OAM 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, OAM by telephone or facsimile of an emergency lasting more than one (1) hour in compliance with (b)(4) and (5) of this condition shall constitute a violation of 326 IAC 2-7 and any other applicable rules.
- (g) Operations may continue during an emergency only if the following conditions are met:
 - (1) 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.
 - (2) If an emergency situation causes a deviation from a health-based limit, the Permittee may not continue to operate the affected emissions facilities unless:
 - (A) The Permittee immediately takes all reasonable steps to correct the emergency situation and to minimize emissions; and
 - (B) Continued operation of the facilities is 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.

Any operation shall continue no longer than the minimum time required to prevent the situations identified in (g)(2)(B) of this condition.

B.14 Permit Shield [326 IAC 2-7-15]

- (a) This condition provides a permit shield as addressed in 326 IAC 2-7-15.
- (b) This permit shall be used as the primary document for determining compliance with applicable requirements established by previously issued permits. 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:
 - (1) The applicable requirements are included and specifically identified in this permit; or
 - (2) The permit contains an explicit determination or concise summary of a determination that other specifically identified requirements are not applicable.
- (c) 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, including any term or condition from a previously issued construction or operation permit, IDEM, OAM 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.

- (d) 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.
- (e) 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.
- (f) 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).
- (g) This permit shield is not applicable to modifications eligible for group processing until after IDEM, OAM has issued the modifications. [326 IAC 2-7-12(c)(7)]
- (h) This permit shield is not applicable to minor Part 70 permit modifications until after IDEM, OAM has issued the modification. [326 IAC 2-7-12(b)(8)]

B.15 Multiple Exceedances [326 IAC 2-7-5(1)(E)]

Any exceedance of a permit limitation or condition contained in this permit, which occurs contemporaneously with an exceedance of an associated surrogate or operating parameter established to detect or assure compliance with that limit or condition, both arising out of the same act or occurrence, shall constitute a single potential violation of this permit.

B.16 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 Branch, Office of Air Management
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

within ten (10) calendar days from the date of the discovery of the deviation.

- (b) A deviation is an exceedance of a permit limitation or a failure to comply with a requirement of the permit or a rule. It does not include:
 - (1) An excursion from compliance monitoring parameters as identified in Section D of this permit unless tied to an applicable rule or limit; or

- (2) An emergency as defined in 326 IAC 2-7-1(12); or
- (3) Failure to implement elements of the Preventive Maintenance Plan unless lack of maintenance has caused or contributed to a deviation.
- (4) Failure to make or record information required by the compliance monitoring provisions of Section D unless such failure exceeds 5% of the required data in any calendar quarter.

A Permittee's failure to take the appropriate response step when an excursion of a compliance monitoring parameter has occurred is a deviation.

- (c) Written notification shall be submitted on the attached Emergency/Deviation Occurrence Reporting Form or its substantial equivalent. The notification does not need to be certified by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (d) Proper notice submittal under 326 IAC 2-7-16 satisfies the requirement of this subsection.

B.17 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)]
- (b) This permit shall be reopened and revised under any of the circumstances listed in IC 13-15-7-2 or if IDEM, OAM 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, OAM 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, OAM at least thirty (30) days in advance of the date this permit is to be reopened, except that IDEM, OAM may provide a shorter time period in the case of an emergency. [326 IAC 2-7-9(c)]

B.18 Permit Renewal [326 IAC 2-7-4]

- (a) The application for renewal shall be submitted using the application form or forms prescribed by IDEM, OAM 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).

Request for renewal shall be submitted to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Management
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, OAM on or before the date it is due. [326 IAC 2-5-3]
- (2) If IDEM, OAM, 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, OAM 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, OAM, 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, OAM 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.19 Permit Amendment or Modification [326 IAC 2-7-11] [326 IAC 2-7-12]

- (a) The Permittee must comply with 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 Management
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

Any such application should be certified by the "responsible official" as defined by 326 IAC 2-7-1(34) only if a certification is required by the terms of the applicable rule.

- (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.20 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)(D)(i) 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.21 Changes Under Section 502(b)(10) of the Clean Air Act [326 IAC 2-7-20(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) and the following additional conditions:

- (a) For each such change, the required written notification shall include a brief description of the change within the source, the date on which the change will occur, any change in emissions, and any permit term or condition that is no longer applicable as a result of the change.
- (b) The permit shield, described in 326 IAC 2-7-15, shall not apply to any change made under 326 IAC 2-7-20(b).

B.22 Operational Flexibility [326 IAC 2-7-20]

- (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 approval required by 326 IAC 2-1 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 Management
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, OAM in the notices specified in 326 IAC 2-7-20(b), (c)(1), and (e)(2).

- (b) 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 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, OAM, or U.S. EPA is required.

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

B.23 Construction Permit Requirement [326 IAC 2]

Except as allowed by Indiana P.L. 130-1996 Section 12, as amended by P.L. 244-1997, modification, construction, or reconstruction shall be approved as required by and in accordance with 326 IAC 2.

B.24 Inspection and Entry [326 IAC 2-7-6(2)]

Upon presentation of proper identification cards, credentials, and other documents as may be required by law, the Permittee shall allow IDEM, OAM, 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) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
- (c) Inspect, at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit;
- (d) Sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with this permit or applicable requirements; and
- (e) Utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of assuring compliance with this permit or applicable requirements.
[326 IAC 2-7-6(6)]

- (1) The Permittee may assert a claim that, in the opinion of the Permittee, information removed or about to be removed from the source by IDEM, OAM or an authorized representative, contains information that is confidential under IC 5-14-3-4(a). The claim shall be made in writing before or at the time the information is removed from the source. In the event that a claim of confidentiality is so asserted, neither IDEM, OAM nor an authorized representative, may disclose the information unless and until IDEM, OAM makes a determination under 326 IAC 17-1-7 through 326 IAC 17-1-9 that the information is not entitled to confidential treatment and that determination becomes final. [IC 5-14-3-4; IC 13-14-11-3; 326 IAC 17-1-7 through 326 IAC 17-1-9]
- (2) The Permittee, and IDEM, OAM acknowledge that the federal law applies to claims of confidentiality made by the Permittee with regard to information removed or about to be removed from the source by U.S. EPA. [40 CFR Part 2, Subpart B]

B.25 Transfer of Ownership or Operation [326 IAC 2-1-6] [326 IAC 2-7-11]

Pursuant to 326 IAC 2-1-6 and 326 IAC 2-7-11:

- (a) In the event that ownership of this source is changed, the Permittee shall notify IDEM, OAM, Permits Branch, within thirty (30) days of the change. Notification shall include a written agreement containing a specific date for transfer of permit responsibility, coverage, and liability between the Permittee and the new owner.
- (b) The written notification shall be sufficient to transfer the permit to the new owner by an administrative amendment pursuant to 326 IAC 2-7-11. 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).
- (c) IDEM, OAM shall reserve the right to issue a new permit.

B.26 Annual Fee Payment [326 IAC 2-7-19] [326 IAC 2-7-5(7)]

- (a) The Permittee shall pay annual fees to IDEM, OAM within thirty (30) calendar days of receipt of a billing. If the Permittee does not receive a bill from IDEM, OAM the applicable fee is due April 1 of each year.
- (b) 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 317-233-0425 (ask for OAM, Technical Support and Modeling Section), to determine the appropriate permit fee.

B.27 Enhanced New Source Review [326 IAC 2]

The requirements of the construction permit rules in 326 IAC 2 are satisfied by this permit for any previously unpermitted facilities and facilities to be constructed within eighteen (18) months after the date of issuance of this permit, as listed in Sections A.2 and A.3.

SECTION C SOURCE OPERATION CONDITIONS

Entire Source

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

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

Pursuant to 326 IAC 6-3-2(c), the allowable particulate matter emissions rate from any process not already regulated by 326 IAC 6-1 or any New Source Performance Standard, and which has a maximum process weight rate less than 100 pounds per hour shall not exceed 0.551 pounds per hour.

C.2 Opacity [326 IAC 5-1]

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

- (a) Opacity shall not exceed an average of forty percent (40%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
- (b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

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

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

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

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

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

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

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

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.7 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61.140]

- (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 Management
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

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 emission control procedures in 326 IAC 14-10-4 and 40 CFR 61.145(c). Per 326 IAC 14-10-4 emission control requirements are mandatory 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) **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 that the inspector be accredited is 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 methods approved by IDEM, OAM.

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 Management
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 Permittee shall submit a notice of the actual test date to the above address so that it is received at least two weeks prior to the test date.

- (b) All test reports must be received by IDEM, OAM within forty-five (45) days after the completion of the testing. An extension may be granted by the Commissioner, if the source submits to IDEM, OAM, a reasonable written explanation within five (5) days prior to the end of the initial forty-five (45) day period.

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

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

C.9 Compliance Schedule [326 IAC 2-7-6(3)]

The Permittee:

- (a) Has certified that all facilities at this source are in compliance with all applicable requirements; and
- (b) Has submitted a statement that the Permittee will continue to comply with such requirements; and
- (c) Will comply with such applicable requirements that become effective during the term of this permit.

C.10 Compliance Monitoring [326 IAC 2-7-5(3)] [326 IAC 2-7-6(1)]

Compliance with applicable requirements shall be documented as required by this permit. The Permittee shall be responsible for installing any necessary equipment and initiating any required monitoring related to that equipment, no more than ninety (90) days after receipt of this permit. If due to circumstances beyond its control, this schedule cannot be met, the Permittee may extend compliance schedule an additional ninety (90) days provided the Permittee notifies:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Management
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).

C.11 Maintenance of Monitoring Equipment [326 IAC 2-7-5(3)(A)(iii)]

- (a) In the event that a breakdown of the monitoring equipment occurs, a record shall be made of the times and reasons of the breakdown and efforts made to correct the problem. To the extent practicable, supplemental or intermittent monitoring of the parameter should be implemented at intervals no less frequent than required in Section D of this permit until such time as the monitoring equipment is back in operation. In the case of continuous monitoring, supplemental or intermittent monitoring of the parameter should be implemented at intervals no less than one (1) hour until such time as the continuous monitor is back in operation.

- (b) The Permittee shall install, calibrate, quality assure, maintain, and operate all necessary monitors and related equipment. In addition, prompt corrective action shall be initiated whenever indicated.

C.12 Monitoring Methods [326 IAC 3]

Any monitoring or testing performed to meet the applicable requirements of this permit shall be performed according to the provisions of 326 IAC 3, 40 CFR 60, Appendix A, or other approved methods as specified in this permit.

C.13 Pressure Gauge Specifications

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.

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

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

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

- (a) The Permittee shall prepare written emergency reduction plans (ERPs) consistent with safe operating procedures.

- (b) These ERPs shall be submitted for approval to:

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

within ninety (90) days after the date of issuance of this permit.

The ERP does not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

- (c) If the ERP is disapproved by IDEM, OAM, the Permittee shall have an additional thirty (30) days to resolve the differences and submit an approvable ERP.

- (d) These ERPs shall state those actions that will be taken, when each episode level is declared, to reduce or eliminate emissions of the appropriate air pollutants.

- (e) Said ERPs shall also identify the sources of air pollutants, the approximate amount of reduction of the pollutants, and a brief description of the manner in which the reduction will be achieved.
- (f) Upon direct notification by IDEM, OAM, that a specific air pollution episode level is in effect, the Permittee shall immediately put into effect the actions stipulated in the approved ERP for the appropriate episode level. [326 IAC 1-5-3]

C.15 Risk Management Plan [326 IAC 2-7-5(12)] [40 CFR 68.215]

If a regulated substance, subject to 40 CFR 68, is present in a process in more than the threshold quantity, 40 CFR 68 is an applicable requirement and the Permittee shall:

- (a) Submit:
 - (1) A compliance schedule for meeting the requirements of 40 CFR 68 by the date provided in 40 CFR 68.10(a); or
 - (2) As a part of the compliance certification submitted under 326 IAC 2-7-6(5), a certification statement that the source is in compliance with all the requirements of 40 CFR 68, including the registration and submission of a Risk Management Plan (RMP); and
 - (3) A verification to IDEM, OAM that a RMP or a revised plan was prepared and submitted as required by 40 CFR 68.
- (b) Provide annual certification to IDEM, OAM that the Risk Management Plan is being properly implemented.

All documents submitted pursuant to this condition shall include the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

C.16 Compliance Monitoring Plan - Failure to Take Response Steps [326 IAC 2-7-5][326 IAC 2-7-6] [326 IAC 1-6]

- (a) The Permittee is required to implement a compliance monitoring plan to ensure that reasonable information is available to evaluate its continuous compliance with applicable requirements. This compliance monitoring plan is comprised of:
 - (1) This condition;
 - (2) The Compliance Determination Requirements in Section D of this permit;
 - (3) The Compliance Monitoring Requirements in Section D of this permit;
 - (4) The Record Keeping and Reporting Requirements in Section C (Monitoring Data Availability, General Record Keeping Requirements, and General Reporting Requirements) and in Section D of this permit; and
 - (5) A Compliance Response Plan (CRP) for each compliance monitoring condition of this permit. CRP's shall be submitted to IDEM, OAM upon request and shall be subject to review and approval by IDEM, OAM. The CRP shall be prepared within ninety (90) days after issuance of this permit by the Permittee and maintained on site, and is comprised of :

- (A) Response steps that will be implemented in the event that compliance related information indicates that a response step is needed pursuant to the requirements of Section D of this permit; and
 - (B) A time schedule for taking such response steps including a schedule for devising additional response steps for situations that may not have been predicted.
- (b) For each compliance monitoring condition of this permit, appropriate response steps shall be taken when indicated by the provisions of that compliance monitoring condition. Failure to perform the actions detailed in the compliance monitoring conditions or failure to take the response steps within the time prescribed in the Compliance Response Plan, shall constitute a violation of the permit unless taking the response steps set forth in the Compliance Response Plan would be unreasonable.
- (c) After investigating the reason for the excursion, the Permittee is excused from taking further response steps for any of the following reasons:
- (1) The monitoring equipment malfunctioned, giving a false reading. This shall be an excuse from taking further response steps providing that 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 an administrative amendment to the permit, and such request has not been denied or;
 - (3) An automatic measurement was taken when the process was not operating; or
 - (4) The process has already returned to operating within "normal" parameters and no response steps are required.
- (d) Records shall be kept of all instances in which the compliance related information was not met and of all response steps 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.

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

- (a) When the results of a stack test performed in conformance with Section C - Performance Testing, of this permit exceed the level specified in any condition of this permit, the Permittee shall take appropriate corrective actions. The Permittee shall submit a description of these corrective actions to IDEM, OAM, within thirty (30) days of receipt of the test results. The Permittee shall take appropriate action to minimize emissions from the affected facility while the corrective actions are being implemented. IDEM, OAM shall notify the Permittee within thirty (30) days, if the corrective actions taken are deficient. The Permittee shall submit a description of additional corrective actions taken to IDEM, OAM within thirty (30) days of receipt of the notice of deficiency. IDEM, OAM reserves the authority to use enforcement activities to resolve noncompliant stack tests.

- (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, OAM that retesting in one-hundred and twenty (120) days is not practicable, IDEM, OAM may extend the retesting deadline. Failure of the second test to demonstrate compliance with the appropriate permit conditions may be grounds for immediate revocation of the permit to operate the affected facility.

The documents submitted pursuant to this condition do not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

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

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

- (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 and must comply with the minimum requirements specified in 326 IAC 2-6-4. The annual emission statement shall meet the following requirements:
 - (1) Indicate actual emissions of criteria pollutants from the source, in compliance with 326 IAC 2-6 (Emission Reporting);
 - (2) Indicate actual emissions of other regulated pollutants from the source, for purposes of Part 70 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:

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

- (c) 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, OAM on or before the date it is due.

C.19 Monitoring Data Availability [326 IAC 2-7-6(1)] [326 IAC 2-7-5(3)]

- (a) With the exception of performance tests conducted in accordance with Section C-Performance Testing, all observations, sampling, maintenance procedures, and record keeping, required as a condition of this permit shall be performed at all times the equipment is operating at normal representative conditions.
- (b) As an alternative to the observations, sampling, maintenance procedures, and record keeping of subsection (a) above, when the equipment listed in Section D of this permit is not operating, the Permittee shall either record the fact that the equipment is shut down or perform the observations, sampling, maintenance procedures, and record keeping that would otherwise be required by this permit.

- (c) If the equipment is operating but abnormal conditions prevail, additional observations and sampling should be taken with a record made of the nature of the abnormality.
- (d) If for reasons beyond its control, the operator fails to make required observations, sampling, maintenance procedures, or record keeping, reasons for this must be recorded.
- (e) At its discretion, IDEM may excuse such failure providing adequate justification is documented and such failures do not exceed five percent (5%) of the operating time in any quarter.
- (f) Temporary, unscheduled unavailability of staff qualified to perform the required observations, sampling, maintenance procedures, or record keeping shall be considered a valid reason for failure to perform the requirements stated in (a) above.

C.20 General Record Keeping Requirements [326 IAC 2-7-5(3)][326 IAC 2-7-6]

- (a) Records of all required monitoring data and support information 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 kept at the source location for a minimum of three (3) years and available upon the request of an IDEM, OAM representative. 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 written request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.
- (b) Records of required monitoring information shall include, where applicable:
 - (1) The date, place, and time of sampling or measurements;
 - (2) The dates analyses were performed;
 - (3) The company or entity performing the analyses;
 - (4) The analytic techniques or methods used;
 - (5) The results of such analyses; and
 - (6) The operating conditions existing at the time of sampling or measurement.
- (c) Support information shall include, where applicable:
 - (1) Copies of all reports required by this permit;
 - (2) All original strip chart recordings for continuous monitoring instrumentation;
 - (3) All calibration and maintenance records;

- (4) Records of preventive maintenance shall be sufficient to demonstrate that improper maintenance did not cause or contribute to a violation of any limitation on emissions or potential to emit. To be relied upon subsequent to any such violation, these records may include, but are not limited to: work orders, parts inventories, and operator's standard operating procedures. Records of response steps taken shall indicate whether the response steps were performed in accordance with the Compliance Response Plan required by Section C - Compliance Monitoring Plan - Failure to take Response Steps, of this permit, and whether a deviation from a permit condition was reported. All records shall briefly describe what maintenance and response steps were taken and indicate who performed the tasks.
- (d) All record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance.

C.21 General Reporting Requirements [326 IAC 2-7-5(3)(C)]

- (a) To affirm that the source has met all the compliance monitoring requirements stated in this permit the source shall submit a Quarterly Compliance Monitoring Report. Any deviation from the requirements and the date(s) of each deviation must be reported.
- (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 Management
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, OAM on or before the date it is due.
- (d) Unless otherwise specified in this permit, any quarterly report shall be submitted within thirty (30) days of the end of the reporting period.
- (e) All instances of deviations as described in Section B- Deviations from Permit Requirements Conditions must be clearly identified in such reports.
- (f) Any corrective actions or response steps taken as a result of each deviation must be clearly identified in such reports.
- (g) The first report shall cover the period commencing on the date of issuance of this permit and ending on the last day of the reporting period.

The documents submitted pursuant to this condition do not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

Stratospheric Ozone Protection

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

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

- (a) Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to 40 CFR 82.156.
- (b) Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158.
- (c) Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161.

SECTION D.1

FACILITY OPERATION CONDITIONS

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

- (1) 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;
- (2) 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;
- (3) 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;
- (4) 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; and
- (5) 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.

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

D.1.1 Volatile Organic Compounds (VOC) [326 IAC 8-2-9] [326 IAC 8-1-6]

- (a) 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 Radiator Booth, which was constructed in 1994, shall be limited to 3.5 pounds of VOCs per gallon of coating less water, for forced warm air dried coatings.
- (b) 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.

- (c) Any change or modification to the Engine Booth, Stern Drive Booth, Diesel Engine Booth or Transmission Booth that may increase the VOC usages to 25 tons per year must be approved by the Office of Air Management (OAM) before such change can occur.

D.1.2 Particulate Matter (PM) [326 IAC 6-3-2(c)]

The PM from the five (5) paint booths (Engine, Stern Drive, Radiator, Diesel Engine and Transmission Booths) shall not exceed the pound per hour emission rate established as E in the following formula:

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

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

D.1.3 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 this facility and any control devices.

Compliance Determination Requirements

D.1.4 Testing Requirements [326 IAC 2-7-6(1)]

The Permittee is not required to test this facility by this permit. However, IDEM may require compliance testing at any specific time when necessary to determine if the facility is in compliance. If testing is required by IDEM, compliance with the VOC and PM limits specified in Conditions D.1.1 and D.1.2 shall be determined by a performance test conducted in accordance with Section C - Performance Testing.

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

D.1.5 Particulate Matter (PM)

The air filters for PM control shall be in operation at all times when the five (5) paint booths (Engine, Stern Drive, Radiator, Diesel Engine and Transmission Booths) are in operation and exhausting to the outside atmosphere.

D.1.6 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 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 Monitoring Plan - Failure to Take Response Steps, shall be considered a violation of 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 Monitoring Plan - Failure to Take Response Steps, shall be considered a violation of this permit.

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

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

D.1.7 Record Keeping Requirements

- (a) To document compliance with Condition D.1.1, the Permittee shall maintain records in accordance with (1) through (6) below. Records maintained shall be taken daily for (1) through (3) and monthly for (4) through (6) and shall be complete and sufficient to establish compliance with the VOC emission limits established in Condition D.1.1.
 - (1) The VOC content of each coating material and solvent used in the Radiator Booth. Records shall include purchase orders, invoices, and material safety data sheets (MSDS) necessary to verify the type and amount used. Solvent usage records shall differentiate between those added to coatings and those used as cleanup solvents;
 - (2) A log of the date of use;
 - (3) The volume weighted VOC content of the coatings used for each day;
 - (4) The cleanup solvent usage as well as how the waste solvent is collected and disposed for each month;
 - (5) The total VOC usage for each month; and
 - (6) The weight of VOC emitted for each compliance period.
- (b) To document compliance with Condition D.1.6, the Permittee shall maintain a log of weekly overspray observations, daily and monthly inspections, and those additional inspections prescribed by the Preventive Maintenance Plan.
- (c) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

SECTION D.2 FACILITY OPERATION CONDITIONS

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

- (6) 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);
- (7) 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;
- (8) 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;
- (9) 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;
- (10) 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;
- (11) 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;
- (12) 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;
- (13) 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;
- (14) one (1) natural gas fired reciprocating internal combustion engine, identified as DYN019, with a rated heat input of 1.4 mmBtu/hr and a rated output of 120 HP; and
- (15) 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.

Emission Limitations and Standards [326 IAC 2-2 and 40 CFR 52.21] [326 IAC 2-3]

D.2.1 Volatile Organic Compounds (VOC), Nitrogen Oxides (NO_x) and Carbon Monoxide (CO) Emissions [326 IAC 2-2 and 40 CFR 52.21]

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

- (a) natural gas usages for all reciprocating internal combustion engines are limited at 9.975 million standard cubic feet per month;
- (b) #2 diesel fuel usages for all reciprocating internal combustion engines are limited at 8,333 gallons per month; and
- (c) gasoline usages for all reciprocating internal combustion engines are limited at 833 gallons per month.

These fuel usage limits, shall limit source wide VOC, NO_x and CO potential to emit to 249 tons per year each and shall render the requirements of 326 IAC 2-2 (PSD) not applicable.

Compliance Determination Requirements

D.2.2 Testing Requirements [326 IAC 2-7-6(1),(6)]

The Permittee is not required to test this facility by this permit. However, IDEM may require compliance testing at any specific time when necessary to determine if the facility is in compliance. If testing is required by IDEM, compliance with the VOC, NOx and CO limits specified in Condition D.2.1 shall be determined by a performance test conducted in accordance with Section C - Performance Testing.

D.2.3 Fuel Usages

Compliance with Condition D.2.1 shall be demonstrated at the end of each month based on the total natural gas, #2 diesel fuel and gasoline usages for the most recent month.

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

D.2.4 Record Keeping Requirements

- (a) To document compliance with Condition D.2.1, the Permittee shall maintain records of the amount of 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.2.5 Reporting Requirements

A quarterly summary of the information to document compliance with Condition D.2.1 shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported.

SECTION D.3 FACILITY OPERATION CONDITIONS

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

- (16) three (3) baghouses, identified as DUC004, DUC005 and DUC023, 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.
- (17) one (1) salt bath metal cleaning system, using a wet scrubber, identified as KOL003, for particulate emissions control.

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

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

- (a) Pursuant to 326 IAC 6-3 (Process Operations), the allowable PM emission rate from Baghouses DUC004, DUC005 and DUC023 shall not exceed 0.68, 0.68 and 0.82 pounds per hour, respectively, when operating at a process weight rate of 3000, 3000, and 4000 pounds per hour, respectively.
- (b) Pursuant to 326 IAC 6-3 (Process Operations), the allowable PM emission rate from the salt bath metal cleaning system shall not exceed 12.1 pounds per hour, when operating at a process weight rate of 10,000 pounds per hour.

The above pounds per hour limitations were calculated with the following equation:

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

D.3.2 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for these facilities and their control devices.

Compliance Determination Requirements

D.3.3 Testing Requirements [326 IAC 2-7-6(1),(6)]

The Permittee is not required to test this facility by this permit. However, IDEM may require compliance testing at any specific time when necessary to determine if the facility is in compliance. If testing is required by IDEM, compliance with the PM limit specified in Condition D.3.1 shall be determined by a performance test conducted in accordance with Section C - Performance Testing.

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

D.3.4 Particulate Matter (PM)

The baghouses and wet scrubber for PM control shall be in operation at all times when the grinding and machining, and the salt bath metal cleaning system are in operation and exhausting to the outside atmosphere.

D.3.5 Visible Emissions Notations

- (a) Daily visible emission notations of the stack exhausts for Baghouses DUC004, DUC005 and DUC023, and wet scrubber KOL003 shall be performed during normal daylight operations when venting 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.

D.3.6 Parametric Monitoring

The Permittee shall record the total static pressure drop across the baghouse used in conjunction with the grinding and machining processes, as well as the water flow rate and total static pressure drop across the wet scrubber used in conjunction with the salt bath metal cleaning system, at least once weekly when the grinding and machining or salt bath cleaning processes are in operation when venting to the atmosphere.

Unless operated under conditions for which the Compliance Response Plan specifies otherwise, the pressure drop across each of the baghouses shall be maintained within the range of 1.0 and 6.0 inches of water and the water flow rate and pressure drop across the wet scrubber shall be maintained within the ranges of 90 to 125 gallons per minute and 19 and 23 inches of water, respectively, or the ranges established during the latest stack test. The Compliance Response Plan for this unit shall contain troubleshooting contingency and corrective actions for when the pressure reading is outside of the above mentioned range for any one reading.

The instrument used for determining the pressure shall comply with Section C - Pressure Gauge Specifications, of this permit, shall be subject to approval by IDEM, OAM 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 woodworking operation when venting to the atmosphere. A baghouse inspection shall be performed within three months of redirecting vents to the atmosphere and every three months thereafter. Inspections are optional when venting to the indoors. All defective bags shall be replaced.

D.3.8 Broken or Failed Bag/Wet Scrubber Detection

In the event that bag or wet scrubber failure has been observed:

- (a) The affected compartments will be shut down immediately until the failed units have been repaired or replaced. Within eight (8) 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) hours of discovery of the failure and shall include a timetable for completion. 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).
- (b) For single compartment baghouses, 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 Requirement [326 IAC 2-7-5(3)]

D.3.9 Record Keeping Requirements

- (a) To document compliance with Conditions D.3.4 and D.3.5, the Permittee shall maintain records of daily visible emission notations of the baghouse stack exhausts.
- (b) To document compliance with Condition D.3.6, the Permittee shall maintain the following:
 - (1) Weekly records of the following operational parameters during normal operation:
 - (A) Inlet and outlet differential static pressure for baghouses and wet scrubber;
 - (B) Cleaning cycle for baghouses: frequency and differential pressure; and
 - (C) Wet scrubber water flow rate.

- (2) Documentation of all response steps implemented, per event .
 - (3) Operation and preventive maintenance logs, including work purchases orders, shall be maintained.
 - (4) Quality Assurance/Quality Control (QA/QC) procedures.
 - (5) Operator standard operating procedures (SOP).
 - (6) Manufacturer's specifications or its equivalent.
 - (7) Equipment "troubleshooting" contingency plan.
 - (8) Documentation of the dates vents are redirected.
- (c) 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)]

Section D.4 is for the following insignificant activities, as defined in 326 IAC 2-7-1(21):

- (1) one (1) natural gas fired boiler, rated at 4.5 mmBtu/hr;
- (2) thirteen (13) degreasing units, identified as D271-CLT21, D264-CLT054, G266-CLT056, I261, T264-CLT039, T263-CLT048, G273-CLT017, G274-CLT019, G271-CLT043, D262-CLT080, G264-CLT083, G276-CLT042 and T268-CLT044, constructed after July 1, 1990;
- (3) eight (8) degreasing units, identified as T267-CLT051, G265, G263-CLT038, G272-CLT018, G270, D268-CLT020, D270-PEQ011 and D265-CLT053, constructed after January 1, 1980 and prior to July 1, 1990;
- (4) twenty (20) degreasing units constructed prior to January 1, 1980;
- (5) miscellaneous aerosol spray operations throughout the plant;
- (6) miscellaneous non-aerosol cleaning and machining operations throughout the plant;
- (7) GPL final wash usages throughout the plant;
- (8) 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;
- (9) seventeen (17) baghouses, identified as DUC001, DUC002, DUC003, DUC013, DUC014, DUC015, DUC017, DUC018, DUC019, DUC021, DUC022, DUC024, DUC027, DUC028, DUC030, DUC031 and DUC035, 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;
- (10) three (3) baghouses (ID Nos. DUC006, DUC020 and DUC029), each with a gas flow rate of greater than 4,000 actual cubic foot per minute, for controlling grinding and machining; and operations with uncontrolled potential particulate emissions of less than 25 pounds per day.

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

D.4.1 Particulate Matter (PM) [326 IAC 6-2-4]

Pursuant to 326 IAC 6-2-4 (Particulate Matter Emission Limitations for Sources of Indirect Heating, the PM emissions from the 4.5 mmBtu per hour heat input boiler shall be limited to 0.6 pounds per mmBtu heat input. The allowable emission is calculated using the following equation:

$$Pt = 1.09 / Q^{0.26}$$

where: Pt is the allowable emissions in lb/mmBtu; and
Q equals to total rated capacity of source heating capacity in mmBtu/hr.

D.4.2 Volatile Organic Compounds (VOC) [326 IAC 8-3-2]

Pursuant to 326 IAC 8-3-2 (Cold Cleaner Operations), for Degreasers T267-CLT051, G265, G263-CLT038, G272-CLT018, G270, D268-CLT020, D270-PEQ011 and D265-CLT053, Jasper Engine Exchange, Inc. 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.4.3 Volatile Organic Compounds (VOC) [326 IAC 8-3-5]

(a) Pursuant to 326 IAC 8-3-5(a) (Cold Cleaner Degreaser Operation and Control), for Degreasers D271-CLT21, D264-CLT054, G266-CLT056, I261, T264-CLT039, T263-CLT048, G273-CLT017, G274-CLT019, G271-CLT043, D262-CLT080, G264-CLT083, G276-CLT042 and T268-CLT044, Jasper Engine Exchange, Inc. 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), for degreasers constructed after July 1, 1990, the owner or operator of a cold cleaning facility shall ensure that the following operating requirements are met:
- (1) Close the cover whenever articles are not being handled in the degreaser.
 - (2) Drain cleaned articles for at least fifteen (15) seconds or until dripping ceases.
 - (3) Store waste solvent only in covered containers and prohibit the disposal or transfer of waste solvent in any manner in which greater than twenty percent (20%) of the waste solvent by weight could evaporate.

D.4.4 Volatile Organic Compounds (VOC)

Any change or modification which may 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 OAM's prior approval before such change can take place.

D.4.5 Particulate Matter (PM) [326 IAC 6-3]

Pursuant to 326 IAC 6-3 (Process Operations), the allowable PM emission rates from the grinding, machining and salt bath cleaning operations at associated maximum process weight rates are listed as follows:

ID #	Process Wt. Rate (lb/hr)	Emission Limit (lb/hr)	ID #	Process Wt. Rate (lb/hr)	Emission Limit (lb/hr)	ID #	Process Wt. Rate (lb/hr)	Emission Limit (lb/hr)
BLA007	1,782	0.48	DUC013	1,500	0.42	DUC022	1,200	0.37
BLA009	1,782	1.48	DUC014	2,000	0.51	DUC024	200	0.11
BLA011	1,782	0.48	DUC015	1,000	0.32	DUC027	800	0.28
BLA017	1,782	0.48	DUC017	2,000	0.51	DUC028	400	0.18
BLA018	1,782	0.48	DUC018	2,000	0.51	DUC029	2,500	0.60
DUC001	1,800	0.48	DUC019	800	0.28	DUC030	1,500	0.42
DUC002	800	0.28	DUC020	2,500	0.60	DUC031	1,000	0.32
DUC003	2,000	0.51	DUC021	600	0.23	DUC035	800	0.28
DUC006	2,000	0.51						

The allowable emissions are calculated using the following equation:

$$E = 4.10 P^{0.67}$$

where E = rate of emission in pounds per hour; and
 P = process weight rate in tons per hour.

Compliance Determination Requirement

D.4.6 Testing Requirements [326 IAC 2-7-6(1),(6)]

The Permittee is not required to test this facility by this permit. However, IDEM may require compliance testing at any specific time when necessary to determine if the facility is in compliance. If testing is required by IDEM, compliance with the PM limits specified in Condition D.4.5 shall be determined by a performance test conducted in accordance with Section C - Performance Testing.

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

D.4.7 Visible Emissions Notations

- (a) Daily visible emission notations of the stack exhausts for Baghouse BLA009, BLA017, BLA018, DUC001, DUC027 and DUC030 shall be performed during normal daylight operations when venting 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.

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

D.4.8 Record Keeping Requirements

- (a) To document compliance with Condition D.4.5, the Permittee shall maintain records of daily visible emission notations of the baghouse stack exhausts.
- (b) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

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

**PART 70 OPERATING PERMIT
CERTIFICATION**

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.: T037-7736-00089

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:

- 9 Annual Compliance Certification Letter
- 9 Test Result (specify) _____
- 9 Report (specify) _____
- 9 Notification (specify) _____
- 9 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:

Date:

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

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

**PART 70 OPERATING PERMIT
EMERGENCY/DEVIATION OCCURRENCE 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.: T037-7736-00089

This form consists of 2 pages

Page 1 of 2

Check either No. 1 or No.2

- 9 1.** This is an emergency as defined in 326 IAC 2-7-1(12)
C The Permittee must notify the Office of Air Management (OAM), 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)** days (Facsimile Number: 317-233-5967), and follow the other requirements of 326 IAC 2-7-16
- 9 2.** This is a deviation, reportable per 326 IAC 2-7-5(3)(c)
C The Permittee must submit notice in writing within ten **(10)** calendar days

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/Deviation:

Describe the cause of the Emergency/Deviation:

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

Page 2 of 2

Date/Time Emergency/Deviation started:
Date/Time Emergency/Deviation was corrected:
Was the facility being properly operated at the time of the emergency/deviation? 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/deviation:
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: _____

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF AIR MANAGEMENT
 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.: T037-7736-00089
 Facility: Reciprocating Internal Combustion Engines
 Parameter: Fuel Usages
 Limit: (a) natural gas usages for all reciprocating internal combustion engines are limited at 9.975 million standard cubic feet per month;
 (b) #2 diesel fuel usages for all reciprocating internal combustion engines are limited at 8,333 gallons per month; and
 (c) gasoline usages for all reciprocating internal combustion engines are limited at 833 gallons per month.

YEAR: _____

Month	Reciprocating Internal Combustion Engines Fuel Usages		
	Natural Gas (mmSCF)	#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: _____

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

PART 70 OPERATING PERMIT QUARTERLY COMPLIANCE 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.: T037-7736-00089

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

This report is an affirmation that the source has met all the compliance monitoring requirements stated in this permit. This report shall be submitted quarterly. Any deviation from the compliance monitoring requirements and the date(s) of each deviation must be reported. Additional pages may be attached if necessary. This form can be supplemented by attaching the Emergency/Deviation Occurrence Report. If no deviations occurred, please specify in the box marked "No deviations occurred this reporting period".

9 NO DEVIATIONS OCCURRED THIS REPORTING PERIOD

9 THE FOLLOWING DEVIATIONS OCCURRED THIS REPORTING PERIOD.

Compliance Monitoring Requirement (e.g. Permit Condition D.1.3)	Number of Deviations	Date of each Deviation

Form Completed By: _____
 Title/Position: _____
 Date: _____
 Phone: _____

Attach a signed certification to complete this report.

Indiana Department of Environmental Management Office of Air Management

Technical Support Document (TSD) for a Part 70 Operating Permit and Enhanced New Source Review (ENSR)

Source Background and Description

Source Name: Jasper Engine Exchange, Inc.
Source Location: 815 Wernsing Road, Jasper, IN 47547
County: Dubois
SIC Code: 3714
Operation Permit No.: T037-7736-00089
Permit Reviewer: Scott Pan/EVP

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

Permitted Emission Units and Pollution Control Equipment

There are no permitted emission units at the source at the time of this review.

Unpermitted Emission Units and Pollution Control Equipment

The source consists of the following unpermitted facilities/units:

- (1) 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 PB001;
- (2) 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 PB002;
- (3) 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 PB003;
- (4) 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 PB004;
- (5) one (1) air atomization paint spray booth constructed in 1965, identified as Transmission Booth, capable of painting a maximum of two (2) units per hour, using dry filters for overspray control, and exhausting through one (1) stack, identified as PB005;

- (6) 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);
- (7) 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;
- (8) 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;
- (9) 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;
- (10) 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;
- (11) 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;
- (12) one (1) natural gas fired reciprocating internal combustion engine/ identified as @YN008, using gasoline as back-up fuel, with a rated heat input of 3.5 mmBtu/hr and a rated output of 500 HP;
- (13) 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;
- (14) one (1) natural gas fired reciprocating internal combustion engine, identified as DYN019, with a rated heat input of 1.4 mmBtu/hr and a rated output of 120 HP;
- (15) 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; and
- (16) three (3) baghouses, identified as DUC004, DUC005 and DUC023, 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.

Emission Units and Pollution Control Equipment Under Enhanced New Source Review (ENSR)

All facilities at the source are reviewed under the ENSR process.

Insignificant Activities

The source also consists of the following insignificant activities, as defined in 326 IAC 2-7-1(20):

- (1) one (1) natural gas fired boiler, rated at 4.5 mmBtu/hr;

- (2) two (2) waste oil fired heaters, each rated at 0.2 mmBtu/hr;
- (3) 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;
- (4) 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;
- (5) thirteen (13) degreasing units, identified as D271-CLT21, D264-CLT054, G266-CLT056, I261, T264-CLT039, T263-CLT048, G273-CLT017, G274-CLT019, G271-CLT043, D262-CLT080, G264-CLT083, G276-CLT042 and T268-CLT044, constructed after July 1, 1990;
- (6) eight (8) degreasing units, identified as T267-CLT051, G265, G263-CLT038, G272-CLT018, G270, D268-CLT020, D270-PEQ011 and D265-CLT053, constructed after January 1, 1980 and prior to July 1, 1990;
- (7) twenty (20) degreasing units constructed prior to January 1, 1980;
- (8) miscellaneous aerosol spray operations throughout the plant;
- (9) miscellaneous non-aerosol cleaning and machining operations throughout the plant;
- (10) GPL final wash usages throughout the plant;
- (11) five (5) baghouses, identified as BLA007, BLA008, 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;
- (12) seventeen (17) baghouses, identified as DUC001, DUC002, DUC003, DUC013, DUC014, DUC015, DUC017, DUC018, DUC019, DUC021, DUC022, DUC024, DUC027, DUC028, DUC030, DUC031 and DUC035, 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;
- (13) three (3) baghouses (ID Nos. DUC006, DUC020 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;
- (14) one (1) wet scrubber, identified as KOL003, for controlling particulate emissions from molten salt bath metal cleaning system, with uncontrolled potential particulate emissions of less than 25 pounds per day;
- (15) Application of oils, greases, lubricants, or other nonvolatile materials applied as temporary protective coatings;

- (16) Machining where an aqueous cutting coolant continuously floods the machining interface;
- (17) The following equipment related to manufacturing activities not resulting in the emission of HAPs: brazing equipment, cutting torches, soldering equipment, welding equipment;
- (18) Closed loop heating and cooling systems;
- (19) Infrared cure equipment;
- (20) Cutting 200,000 linear feet or less of one inch (1") plate or equivalent;
- (21) Using 80 tons or less of welding consumables;
- (22) Solvent recycling systems with batch capacity less than or equal to 100 gallons;
- (23) Activities associated with the treatment of wastewater streams with an oil and grease content less than or equal to 1% by volume;
- (24) Any operation using aqueous solutions containing less than 1% by weight of VOCs excluding HAPs.
- (25) Natural draft cooling towers not regulated under a NESHAP;
- (26) Forced and induced draft cooling tower system not regulated under a NESHAP;
- (27) Replacement or repair of electrostatic precipitators, bags in baghouses and filters in other air filtration equipment;
- (28) Heat exchanger cleaning and repair;
- (29) Process vessel degassing and cleaning to prepare for internal repairs;
- (30) Paved and unpaved roads and parking lots with public access;
- (31) 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;
- (32) 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;
- (33) Blowdown for any of the following: sight glass; boiler; compressors; pumps; and cooling tower;
- (34) Furnaces used for melting metals other than beryllium and a brim full capacity of less than or equal to 450 cubic inches by volume;
- (35) Filter or coalescer media changeout;
- (36) VOC from gas block honing; and

(37) A laboratory as defined in 326 IAC 2-7-1(20)(C).

Enforcement Issue

- (a) IDEM is aware that all the equipment in the source has been constructed and operated prior to receipt of the proper permit.
- (b) IDEM is reviewing this matter and will take appropriate action. This proposed permit is intended to satisfy the requirements of both the construction permit rules.

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. The Enhanced New Source Review (ENSR) is satisfied with the issuance of the Part 70 permit.

An administratively complete Part 70 permit application for the purposes of this review was received on December 16, 1996. Additional information was received on September 16, 1997 and September 25, 1997.

A notice of completeness letter was mailed to Jasper Engine Exchange, Inc. on January 30, 1997.

Emission Calculations

See Appendix A of this document for detailed emissions calculations (11 pages).

Potential Emissions

Pursuant to 326 IAC 1-2-55, Potential Emissions are defined as "emissions of any one (1) pollutant which would be emitted from a facility, if that facility were operated without the use of pollution control equipment unless such control equipment is necessary for the facility to produce its normal product or is integral to the normal operation of the facility."

Pollutant	Potential Emissions (tons/year)
PM	greater than 100 & less than 250
PM-10	greater than 100 & less than 250
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 Emissions (tons/year)
Toluene	greater than 10
Xylene	greater than 10
MEK	greater than 10
TOTAL	greater than 25

- (a) The potential emissions (as defined in the Indiana Rule) of PM-10, VOC, NO_x and CO are each equal to or greater than 100 tons per year. Therefore, the source is subject to the provisions of 326 IAC 2-7.
- (b) The potential emissions (as defined in Indiana Rule) of any single HAP is equal to or greater than ten (10) tons per year and the potential emissions (as defined in Indiana Rule) 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 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 particulate matter (PM) and volatile organic compound (VOC) emissions are not counted toward determination of PSD and Emission Offset applicability.

Actual Emissions

The following table shows the actual emissions from the source. This information reflects the 1996 emission data provided in the source's Part 70 permit application.

Pollutant	Actual Emissions (tons/year)
PM	1.67
PM-10	1.64
SO ₂	0.58
VOC	91.44
CO	14.62
HAPs	7.29
NO _x	100.83

Limited Potential to Emit

The table below summarizes the total limited potential to emit of all emission units.

Process/facility	Limited Potential to Emit (tons/year)						
	PM	PM-10	SO ₂	VOC	CO	NO _x	HAPs
Surface Coating	31.8	31.8	0.0	119.4	0.0	0.0	58.2
Combustion	4.5	4.5	2.2	8.9	44.4	248.9	0.1
Dust Collectors	1.2	1.2	0.0	0.0	0.0	0.0	0.0
Degreasing	0.0	0.0	0.0	91.6	0.0	0.0	6.4
Aerosol Spray	2.4	2.4	0.0	6.3	0.0	0.0	2.1
Cleaning and Final Wash	0.0	0.0	0.0	6.5	0.0	0.0	2.0
Total Emissions	39.9	39.9	2.2	232.7	44.4	248.9	68.7

County Attainment Status

The source is located in Dubois County.

Pollutant	Status
TSP	Non-attainment **
PM-10	Non-attainment **
SO ₂	Attainment
NO ₂	Attainment
Ozone	Attainment
CO	Attainment
Lead	Attainment

** The source is located in the portion of Dubois County that is designated as PM and PM-10 non-attainment area.

- (a) Volatile organic compounds (VOC) and oxides of nitrogen are precursors for the formation of ozone. Therefore, VOC and NO_x emissions are considered when evaluating the rule applicability relating to the ozone standards. Dubois County has been designated as attainment or unclassifiable for ozone.

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:

- (1) 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.
- (2) 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) There are no New Source Performance Standards (326 IAC 12, 40 CFR Part 60) applicable to this source.
- (b) There are no National Emission Standards for Hazardous Air Pollutants (NESHAP, 40 CFR Part 63) applicable to this source.

State Rule Applicability - Entire Source

326 IAC 2-2 (Prevention of Significant Deterioration, PSD) and 40 CFR 52.21

This source is not subject to the requirements of 326 IAC 2-2 (PSD). All reciprocating internal combustion (IC) engines at the source commenced operation after the PSD applicability date of August 7, 1977 and the source will limit each of the VOC, NO_x and CO emissions to less than 249 tons per year by limiting IC engine fuel usages, as follows (see Appendix A Page 3 of 11):

- (a) Source wide natural gas usage for all reciprocating internal combustion engines is limited at 119.7 million standard cubic feet per year (mmSCF/yr);
- (b) Source wide #2 diesel fuel usage for all reciprocating internal combustion engines is limited at 100,000 gallons per year; and

- (c) Source wide gasoline usage for all reciprocating internal combustion engines is limited at 10,000 gallons per year.

326 IAC 2-3 (Emission Offset)

This source is not subject to the requirements of 326 IAC 2-3 (Emissions Offset), because the source will control PM emissions from all grinding, machining and salt bath cleaning facilities commencing operation after August 1, 1977, to less than 99 tons per year by controlling grinding and machining operations with dust collectors and controlling salt bath cleaning operations with a wet scrubber. These control devices shall be in operation at all times when the grinding, machining and salt bath cleaning processes are operating.

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 100 tons per year of VOC and NOx. Pursuant to this rule, the owner/operator of the source 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 5-1-2 (Visible Emissions Limitations)

Pursuant to 326 IAC 5-1-2 (Visible Emissions Limitations), except as provided in 326 IAC 5-1-3 (Temporary Exemptions), visible emissions shall meet the following, unless otherwise stated in this permit:

- (a) Visible emissions shall not exceed an average of thirty percent (30%) opacity in twenty-four (24) consecutive readings as determined by 326 IAC 5-1-4,
- (b) Visible emissions shall not exceed sixty percent (60%) opacity for more than a cumulative total of fifteen (15) minutes (sixty (60) readings) in a six (6) hour period.

State Rule Applicability - Individual Facilities

326 IAC 2-1-3.4 (New Source Toxics Control)

Pursuant to 326 IAC 2-1-3.4 (New Source Toxics Control), any new process or production unit, which in and of itself emits or has the potential to emit (PTE) 10 tons per year of any HAP or 25 tons per year of any combination of HAPs, must be controlled using technologies consistent with Maximum Achievable Control Technology (MACT). Although the Diesel Engine Paint Booth has a PTE more than 10 tons per year of a single HAP, the booth was constructed before the rule promulgation date of July 27, 1997. Therefore, the paint booth is not subject to the requirements of 326 IAC 2-1-3.4.

326 IAC 6-2-3 (Particulate Emissions Limitations for Sources of Indirect Heating)

The 4.5 mmBtu/hr natural gas fired boiler, which has been in operation before September 21, 1983, is subject to 326 IAC 6-2-3 (Particulate Emissions Limitations for Sources of Indirect Heating). Pursuant to this rule, particulate emissions from indirect heating facilities shall be limited by the following equation:

$$Pt = \frac{C \times a \times h}{76.5 \times Q^{0.75} \times N^{0.25}} = \frac{50 \times 0.67 \times 25}{76.5 \times 4.5^{0.75} \times 1^{0.25}} = 3.54 \text{ lb/mmBtu}$$

The allowable particulate emission rate from the 4.5 mmBtu/hr boiler, based on the above equation, is 3.54 pounds per mmBtu heat input which is higher than the maximum of 0.6 pounds per mmBtu heat input allowed by 326 IAC 6-2-3(d). Therefore, the allowable PM emissions for the 4.5 mmBtu/hr boiler is 0.6 pounds per mmBtu heat input.

The boiler emits a maximum of 0.01 pounds PM per mmBtu heat input, and is in compliance with 326 IAC 6-2-3.

326 IAC 6-3-2 (Process Operations)

Pursuant to 326 IAC 6-3-2 (Process Operations), particulate matter emissions from baghouses BLA009, BLA017, BLA018, DUC001, DUC004, DUC005, DUC023, DUC027 and DUC030 shall be limited to 0.48, 0.48, 0.48, 0.48, 0.68, 0.68, 0.82, 0.28, and 0.42 pounds per hour, respectively (see Appendix A Page 4 of 11). The source will comply with the rule by operating these control devices at all times when the processes, controlled by these control devices, are operating. Particulate matter emissions from operations controlled by other baghouses and wet scrubber at the source are in compliance with 326 IAC 6-3-2, even when the control devices are not in operation (see Appendix A Page 4 of 11).

The particulate matter (PM) overspray from the spray booths at the source shall be limited by the following:

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

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

or

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

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

The particulate matter emissions from all paint spray booths will be in compliance with 326 IAC 6-3-2 by using air filters for overspray control at all times when the paint spray booths are in operation.

326 IAC 6-4 (Fugitive Dust Emissions)

Pursuant to 326 IAC 6-4, fugitive dust shall not be visible crossing the boundary or property line of a source. Observances of visible emissions crossing property lines may be refuted by factual data expressed in 326 IAC 6-4-2(1), (2) or (3).

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 8-2-9 (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 compliance 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.

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 are all constructed before January 1, 1980, therefore, this rule does not apply.

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

Pursuant to 326 IAC 8-3-2 (Cold Cleaner Operations), Jasper Engine Exchange, Inc. shall comply with the following when operating the cold cleaning facilities constructed after January 1, 1980:

- (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.

Degreasers T267-CLT051, G265, G263-CLT038, G272-CLT018, G270, D268-CLT020, D270-PEQ011 and D265-CLT053 are 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.

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 or 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 D271-CLT21, D264-CLT054, G266-CLT056, I261, T264-CLT039, T263-CLT048, G273-CLT017, G274-CLT019, G271-CLT043, D262-CLT080, G264-CLT083, G276-CLT042 and T268-CLT044 are 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 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.

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, OAM, 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 permit Section D are those conditions that are found more or less directly within state and federal rules and the violation of which serves as grounds for enforcement action. If these conditions are not sufficient to demonstrate continuous compliance, they will be supplemented with Compliance Monitoring Requirements, also in permit Section D. 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:

Fuel usages for the reciprocating internal combustion engines have applicable compliance monitoring conditions as specified below:

- (a) Natural gas usages for all reciprocating internal combustion engines are limited at 119.7 million standard cubic feet per year (mmSCF/yr);
- (b) #2 diesel fuel usages for all reciprocating internal combustion engines are limited at 100,000 gallons per year; and
- (c) Gasoline usages for all reciprocating internal combustion engines are limited at 10,000 gallons per year.

The fuel usages shall be recorded monthly and reported to OAM quarterly. These monitoring conditions are necessary because the fuel usage limits for the reciprocating internal combustion engines will render 326 IAC 2-2 (PSD) not applicable.

Baghouses BLA009, BLA017, BLA018, DUC001, DUC004, DUC005, DUC023, DUC027 and DUC030 have applicable compliance monitoring conditions as specified below:

- (a) Daily visible emissions notations of the 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 Preventive Maintenance Plan for this unit shall contain troubleshooting contingency and corrective actions 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 processes, at least once daily when the grinding and machining processes are in operation. Unless operated under conditions for which the Preventive Maintenance Plan specifies otherwise, the pressure drop across each of the baghouses shall be maintained within the range of 1.0 to 6.0 inches of water. The Preventive Maintenance Plan for this unit shall contain troubleshooting contingency and corrective actions for when the pressure reading is outside of the above mentioned range for any one reading.

These monitoring conditions are necessary because the Baghouses BLA009, BLA017, BLA018, DUC001, DUC004, DUC005, DUC023, DUC027 and DUC030 for the grinding and machining processes must operate properly to ensure compliance with 326 IAC 6-3.

Air Toxic Emissions

Indiana presently requests applicants to provide information on emissions of the 187 hazardous air pollutants set out in the Clean Air Act Amendments of 1990. These pollutants are either carcinogenic or otherwise considered toxic and are commonly used by industries. They are listed as air toxics on the Office of Air Management (OAM) Part 70 Application Form GSD-08.

- (a) This source will emit levels of air toxics greater than those that constitute major source applicability according to Section 112 of the Clean Air Act.
- (b) See attached calculations for detailed air toxic calculations.

The concentrations of these air toxics were modeled and found to be (in worst case possible) as follows: The concentrations of these air toxics were compared to the Permissible Exposure Limits (PEL) developed by the Occupational Safety and Health Administration (OSHA). The Office of Air Management (OAM) does not have at this time any specific statutory or regulatory authority over these substances.

Air Toxics Analysis

Pollutant	Rate (lb/hr)	Rate (ton/yr)	Modeled Conc. (Fg/m ³)	OSHA PEL (Fg/m ³)	% OSHA PEL
Xylene	4.97	21.76	1,998	435,000	0.46%
Toluene	5.08	22.26	2,204	752,000	0.29%
MEK	3.50	15.34	1,409	590,000	0.24%
Cobalt	0.01	0.04	4	100	4.00%
Ethylene Glycol	1.43	6.27	576	125,000	0.46%
111-Trichloroethane	0.08	0.35	32	1,900,000	0.00%
MIBK	0.04	0.18	17	410,000	0.00%
Ethylene Chloride	0.03	0.11	10	2,600,000	0.00%
Formaldehyde	0.01	0.02	2	930	0.22%
Hexane	0.02	0.09	8	1,800,000	0.00%

Conclusion

The operation of this engine, transmission and differential parts remanufacturing plant shall be subject to the conditions of the attached proposed **Part 70 Permit No. T037-7736-00089**.

Indiana Department of Environmental Management Office of Air Management

Addendum to the Technical Support Document for Part 70 Operating Permit

Source Name: Jasper Engine Exchange, Inc.
Source Location: 815 Wernsing Road, Jasper, Indiana 46543
SIC Code: 3714
County: Dubois
Operation Permit No.: T037-7736-00089
Permit Reviewer: Scott Pan/EVP

On December 31, 1997, the Office of Air Management (OAM) had a notice published in the Herald in Jasper, Indiana, stating that Jasper Engine Exchange, Inc. had applied for a Part 70 Operating Permit to operate an engine, transmission and differential parts remanufacturing plant. The notice also stated that OAM proposed to issue a Part 70 Operating Permit for this operation and provided information on how the public could review the proposed Part 70 Operating 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 Operating Permit should be issued as proposed.

Upon further review, the OAM has decided to make the following revisions to the permit (bolded language has been added, the language with a line through it has been deleted). The Table Of Contents has been modified to reflect these changes.

1. Section A (Source Summary) has been revised to clarify that the description of the source in conditions A.1 through A.3 is informational only and does not constitute separately enforceable conditions. The descriptive information in other permit conditions is enforceable.

SECTION A SOURCE SUMMARY

This permit is based on information requested by the Indiana Department of Environmental Management (IDEM), Office of Air Management (OAM) ~~and presented in the permit application.~~ **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.**

2. The county status and the source status in Section A.1 have been revised as follows:

County Status: ~~Nonattainment for PM and PM-10 (only for Bainbridge Township; attainment for the rest of the county)~~
 Attainment for all ~~other~~ criteria pollutants
 Source Status: Part 70 Permit Program
 Minor Source, under PSD ~~and Emissions Offset~~ Rules;
 Major Source, Section 112 of the Clean Air Act

3. Condition B.1(b) (Permit No Defense) has been revised to reference the permit shield condition that is found later in Section B.

- (b) This prohibition shall not apply to alleged violations of applicable requirements for which the Commissioner has granted a permit shield in accordance with 326 IAC 2-1-3.2 or 326 IAC 2-7-15, **as set out in this permit in the Section B condition entitled "Permit Shield."**
4. Condition B.8 (c) (Duty to Supplement Information) has been revised to clarify how the Permittee may assert a claim that records are confidential information:
- (c) Upon request, the Permittee shall also furnish to IDEM, OAM copies of records required to be kept by this permit. **If the Permittee wishes to assert a claim of confidentiality over any of the furnished records, For information claimed to be confidential, the Permittee must shall furnish such records to IDEM, OAM along with a claim of confidentiality under 326 IAC 17. If requested by IDEM, OAM, or the U.S. EPA, to furnish copies of requested records directly to U. S. EPA, and if the Permittee is making a claim of confidentiality regarding the furnished records, then the Permittee must shall furnish such confidential records directly to the U.S. EPA along with a claim of confidentiality under 40 CFR 2, Subpart B.**
5. The first paragraph of Section B.11(a) has been revised as follows:
- (a) The Permittee shall annually ~~certify that the source has complied~~ **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.
6. Section B.11(c) (Annual Compliance Certification) has been revised to match changes to the federal Part 70 rules. The language in (c)(3) has been revised since it appears to be a clarification rather than a change in the requirement. The language in (c)(5) has been added to clarify the treatment of insignificant activities. OAM is revising the nonrule policy document Air-007 NPD to provide more guidance regarding the annual compliance certification requirements for sources with Title V permits:
- (c) The annual compliance certification report shall include the following:
 - (1) The identification of each term or condition of this permit that is the basis of the certification;
 - (2) The compliance status;
 - (3) Whether compliance was **based on** continuous or intermittent **data**;
 - (4) The methods used for determining compliance of the source, currently and over the reporting period consistent with 326 IAC 2-7-5(3); ~~and~~
 - (5) Any insignificant activity that has been added without a permit revision; and**
 - ~~(5)~~ **(6)** Such other facts, as specified in Sections D of this permit, as IDEM, OAM, may require to determine the compliance status of the source.

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

7. Condition B.12 (a) (Preventive Maintenance Plan) has been revised to more closely match the language in 326 IAC 1-6-3. A provision allowing a one time extension of the time within which the Permittee must prepare and maintain the PMP has also been added to (a).

B.12 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 prepare and maintain Preventive Maintenance Plans (PMP) within ninety (90) days after issuance of this permit, including the following information on each **facility**:
- (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing ~~emission units and associated~~ emission control devices;
 - (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions;
 - (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

If due to circumstances beyond its control, the PMP cannot be prepared and maintained within the above time frame, the Permittee may extend the date an additional ninety (90) days provided the Permittee notifies:

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

- (b) The Permittee shall implement the Preventive Maintenance Plans as necessary to ensure that lack of proper maintenance does not cause or contribute to a violation of any limitation on emissions or potential to emit.
- (c) PMP's shall be submitted to IDEM, OAM upon request and shall be subject to review and approval by IDEM, OAM.
8. Condition B.14 (Permit Shield) condition has been revised to clarify how the permit shield affects applicable requirements from previous permits and how the permit shield affects determinations that a specific requirement is not applicable to the source.

B.14 Permit Shield [326 IAC 2-7-15]

- (a) This condition provides a permit shield as addressed in 326 IAC 2-7-15.**
- ~~(a)~~ **(b) This permit shall be used as the primary document for determining compliance with applicable requirements established by previously issued permits.**
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 of the following:**

- (1) The applicable requirements are included and specifically identified in this permit; **or**
 - (2) ~~IDEM, OAM, in acting on the Part 70 permit application or revision, determines in writing that other requirements specifically identified are not applicable to the source, and the Part 70 permit includes the determination or a concise summary thereof.~~ **The permit contains an explicit determination or concise summary of a determination that other specifically identified requirements are not applicable.**
- ~~(b)~~ **(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. 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, including any term or condition from a previously issued construction or operation permit, IDEM, OAM 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)~~ **(d)** ~~If, after issuance of this permit, it is determined that the permit is in nonconformance with an applicable requirement, IDEM, OAM, 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. 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.~~
- ~~(d)~~ **(e)** 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)~~ **(f)** 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)~~ **(g)** This permit shield is not applicable to modifications eligible for group processing until after IDEM, OAM, has issued the modifications. [326 IAC 2-7-12(c)(7)]

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

9. Condition B.16 (Deviations from Permit Requirements and Conditions) has been revised to add the deviation terminology that had been contained in Section C, in the General Reporting Requirements condition:

B.16 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 Branch, Office of Air Management
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

within ten (10) calendar days from the date of the discovery of the deviation.

(b) A deviation is an exceedance of a permit limitation or a failure to comply with a requirement of the permit or a rule. It does not include:

- (1) An excursion from compliance monitoring parameters as identified in Section D of this permit unless tied to an applicable rule or limit; or**
- (2) An emergency as defined in 326 IAC 2-7-1(12); or**
- (3) Failure to implement elements of the Preventive Maintenance Plan unless lack of maintenance has caused or contributed to a deviation.**
- (4) Failure to make or record information required by the compliance monitoring provisions of Section D unless such failure exceeds 5% of the required data in any calendar quarter.**

A Permittee's failure to take the appropriate response step when an excursion of a compliance monitoring parameter has occurred is a deviation.

~~(b)~~ **(c)** Written notification shall be submitted on the attached Emergency/Deviation Occurrence Reporting Form or its substantial equivalent. **The notification does not need to be certified by the "responsible official" as defined by 326 IAC 2-7-1(34).**

~~(c)~~ **(d)** Proper notice submittal under 326 IAC 2-7-16 satisfies the requirement of this subsection.

10. Condition B.18 (a) (Permit Renewal) has been changed as follows to clarify the treatment of certain trivial activities :

- (a) The application for renewal shall be submitted using the application form or forms prescribed by IDEM, OAM, 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)**.

11. Conditions B.19 (Administrative Permit Amendment), B.20 (Minor Permit Modification) , and B.21 (Significant Permit Modification) have all been combined into one condition numbered B.19 (Permit Amendment or Modification). Conditions B.20 and B.21 have been deleted. The new Condition B.19 (Permit Amendment or Modification) will read as follows:

B.19 Permit Amendment or Modification [326 IAC 2-7-11] [326 IAC 2-7-12]

- (a) **The Permittee must comply with 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 Management
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015**

Any such application should be certified by the “responsible official” as defined by 326 IAC 2-7-1(34) only if a certification is required by the terms of the applicable rule.

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

12. Condition B.26 (now renumbered B.24) (Inspection and Entry) has been revised to remove the requirement for an IDEM identification card, which other agencies do not have.

B.264 Inspection and Entry [326 IAC 2-7-6(2)]

Upon presentation of ~~IDEM~~ **proper** identification cards, credentials, and other documents as may be required by law, the Permittee shall allow IDEM, OAM, 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) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
- (c) Inspect, at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit;

- (d) Sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with this permit or applicable requirements; and
- (e) Utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of assuring compliance with this permit or applicable requirements.
[326 IAC 2-7-6(6)]

- (1) **The Permittee may assert a claim that, in the opinion of the Permittee, information removed or about to be removed from the source by IDEM, OAM, or an authorized representative, contains information that is confidential under IC 5-14-3-4(a). The claim shall be made in writing before or at the time the information is removed from the source. In the event that a claim of confidentiality is so asserted, neither IDEM, OAM, nor an authorized representative, may disclose the information unless and until IDEM, OAM, makes a determination under 326 IAC 17-1-7 through 326 IAC 17-1-9 that the information is not entitled to confidential treatment and that determination becomes final. [IC 5-14-3-4; IC 13-14-11-3; 326 IAC 17-1-7 through 326 IAC 17-1-9]**
- (2) **The Permittee, and IDEM, OAM, acknowledge that the federal law applies to claims of confidentiality made by the Permittee with regard to information removed or about to be removed from the source by U.S. EPA. [40 CFR Part 2, Subpart B]**

13. Condition B.27 (b)(now re-numbered as B.25 (b)) (Transfer of Ownership or Operation) has been revised to clarify that this notification does not require a certification by a responsible official.

- (b) The written notification shall be sufficient to transfer the permit to the new owner by an administrative amendment pursuant to 326 IAC 2-7-11. **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).**

14. Condition B.28 (now renumbered as B.26) (Annual Fee Payment) has been revised to clarify the Permittee's responsibility for the timely payment of annual fees.

B.286 Annual Fee Payment [326 IAC 2-7-19] [326 IAC 2-7-5(7)]

- (a) The Permittee shall pay annual fees to IDEM, OAM, within thirty (30) calendar days of receipt of a billing. ~~or in a time period consistent with the fee schedule established in 326 IAC 2-7-19. If the Permittee does not receive a bill from IDEM, OAM the applicable fee is due April 1 of each year.~~
- (b) Failure to pay may result in administrative enforcement action, or revocation of this permit.
- (c) ~~If the Permittee does not receive a bill from IDEM, OAM, thirty (30) calendar days before the due date, The Permittee may call the following telephone numbers: 1-800-451-6027 or 317-233-0425 (ask for OAM, Technical Support and Modeling Section), to determine the appropriate permit fee. The applicable fee is due April 1 of each year.~~

15. OAM decided that the 326 IAC 2-2 (PSD) and 326 IAC 2-3 (Emissions Offset) rules speak for themselves and it is unnecessary to repeat the rule in Conditions C.1 and C.2. Therefore, both Conditions C.1 and C.2 have been removed.
16. A new Condition C.1 (Particulate Matter Emission Limitations For Processes with Process Weight Rates Less Than One Hundred (100) pounds per hour) that reads as follows to address the PM emission limitation for facilities below 100 pounds per hour.

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

Pursuant to 326 IAC 6-3-2(c), the allowable particulate matter emissions rate from any process not already regulated by 326 IAC 6-1 or any New Source Performance Standard, and which has a maximum process weight rate less than 100 pounds per hour shall not exceed 0.551 pounds per hour.

17. The last sentence of Condition C.2 has been deleted and the condition has been revised to reflect current rule language. The condition has been changed to:

C.2 Opacity [326 IAC 5-1]

Pursuant to 326 IAC 5-1-2 (~~Visible Emissions~~ **Opacity** Limitations), except as provided in 326 IAC 5-1-3 (Temporary Exemptions), ~~visible emissions opacity~~ shall meet the following, unless otherwise stated in this permit:

- (a) ~~Visible emissions Opacity~~ shall not exceed an average of forty percent (40%) ~~opacity~~ in ~~twenty four (24) consecutive readings,~~ **any one (1) six (6) minute averaging period** as determined in 326 IAC 5-1-4.
- (b) ~~Visible emissions Opacity~~ shall not exceed sixty percent (60%) ~~opacity~~ 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.

18. Condition C.4 (now renumbered as C.3) (Open Burning) has been modified as follows:

C.43 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. ~~The condition is not federally enforceable. 326 IAC 4-1-3(a)(2)(A) and (B) are not federally enforceable.~~

19. The statement "This condition is not federally enforceable" has been removed from Condition C.5 (now renumbered as C.4) (Incineration).
20. Condition C.6 (now renumbered as C.5) (Fugitive Dust Emissions) has been modified as follows:

C.65 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). ~~Rule 326 IAC 6-4-2(4) regarding visible dust is not federally enforceable. 326 IAC 6-4-2(4) is not federally enforceable.~~

21. Condition C.7 (now renumbered as C.6) (Operation of Equipment) has been revised to clarify the requirement.

C.76 Operation of Equipment [326 IAC 2-7-6(6)]

All air pollution control equipment listed in this permit **and used to comply with an applicable requirement** shall be operated at all times that the emission unit vented to the control equipment is in operation. ~~as described in Section D of this permit.~~

22. Conditions C.8 (Asbestos Abatement Projects-Accreditation) and C.15 (Asbestos Abatement Projects) have been combined into one new condition C.7 (Asbestos Abatement Projects).

C.7 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61.140]

- (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 Management
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015**

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 emission control procedures in 326 IAC 14-10-4 and 40 CFR 61.145(c). Per 326 IAC 14-10-4 emission control requirements are mandatory 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) 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 that the inspector be accredited is federally enforceable.

23. Condition C.9 (now renumbered as C.8) (Performance Testing) is revised to correct a rule citation, add a notification requirement, and clarify that any submittal under this condition does not require a certification by a responsible official:

C.98 Performance Testing ~~[326 IAC 3-2-1]~~ [326 IAC 3-6]

- (a) All testing shall be performed according to the provisions of 326 IAC ~~3-2-1~~ **3-6** (Source Sampling Procedures), except as provided elsewhere in this permit, utilizing methods approved by IDEM, OAM.

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 Management
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

no later than thirty-five (35) days ~~before~~ **prior to** the intended test date. **The Permittee shall submit a notice of the actual test date to the above address so that it is received at least two weeks prior to the test date.**

- (b) All test reports must be received by IDEM, OAM within forty-five (45) days after the completion of the testing. An extension may be granted by the Commissioner, if the source submits to IDEM, OAM, a reasonable written explanation within five (5) days prior to the end of the initial forty-five (45) day period.

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

24. Condition C.10 (now renumbered as C.9) (Compliance Schedule) has been revised to more closely match the rule language.

~~C.409~~ Compliance Schedule [326 IAC 2-7-6(3)]

The Permittee:

- (a) **Has certified that all facilities at this source are in compliance with all applicable requirements; and** ~~Will continue to comply with such requirements that become effective during the term of this permit; and~~
- (b) Has submitted a statement that the Permittee will continue to comply with such requirements; and
- (c) **Will comply with such applicable requirements that become effective during the term of this permit.** ~~Has certified that all facilities at this source are in compliance with all applicable requirements.~~
25. Condition C.11 (now renumbered as C.10) (Compliance Monitoring) has been revised to allow a one time extension of the time to install and initiate any required monitoring.

~~C.4410~~ Compliance Monitoring [326 IAC 2-7-5(3)] [326 IAC 2-7-6(1)]

Compliance with applicable requirements shall be documented as required by this permit. The Permittee shall be responsible for installing any necessary equipment and initiating any required monitoring related to that equipment, no more than ninety (90) days after receipt of this permit. If due to circumstances beyond its control, this schedule cannot be met, the Permittee **may extend compliance schedule an additional ninety (90) days provided the Permittee shall** notifies:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Management
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** ~~no more than ninety (90) days after receipt of this permit, with full justification of the reasons for the inability to meet this date. and a schedule which it expects to meet. If a denial of the request is not received before the monitoring is fully implemented, the schedule shall be deemed approved.~~

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).

26. Condition C.13 (now renumbered as C.12) (Monitoring Methods) has been revised to clarify the requirement.

~~C.4312~~ Monitoring Methods [326 IAC 3]

Any monitoring or testing performed to meet the **applicable** requirements of this permit shall be performed according to the provisions of 326 IAC 3, 40 CFR 60, Appendix A, or other approved methods as specified in this permit.

27. Condition C.16 (now renumbered as C.14) (Emergency Reduction Plans) has been revised to clarify that the plan does not require a certification by a responsible official.

C.4614 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 shall prepare written emergency reduction plans (ERPs) consistent with safe operating procedures.
- (b) These ERPs shall be submitted for approval to:

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

within ninety (90) days after the date of issuance of this permit.

The ERP does not require the certification by the “responsible official” as defined by 326 IAC 2-7-1(34).

- (c) If the ERP is disapproved by IDEM, OAM, the Permittee shall have an additional thirty (30) days to resolve the differences and submit an approvable ERP. ~~If after this time, the Permittee does not submit an approvable ERP, then IDEM, OAM, shall supply such plan.~~
 - (d) These ERPs shall state those actions that will be taken, when each episode level is declared, to reduce or eliminate emissions of the appropriate air pollutants.
 - (e) Said ERPs shall also identify the sources of air pollutants, the approximate amount of reduction of the pollutants, and a brief description of the manner in which the reduction will be achieved.
 - (f) Upon direct notification by IDEM, OAM, 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]
28. Condition C.17 (now renumbered as C.15) (Risk Management Plan) has been revised to more closely match the rule language of 40 CFR 68 and clarify that any submittal under this condition requires a certification by a responsible official.

C.4715 Risk Management Plan [326 IAC 2-7-5(12)] [40 CFR 68.215]

If a regulated substance, subject to 40 CFR 68, is present **in a process** in more than the threshold quantity, 40 CFR 68 is an applicable requirement and the Permittee shall:

- (a) Submit:
 - (1) A compliance schedule for meeting the requirements of 40 CFR 68 by the date provided in 40 CFR 68.10(a); or
 - (2) As a part of the compliance certification submitted under 326 IAC 2-7-6(5), a certification statement that the source is in compliance with all the requirements of 40 CFR 68, including the registration and submission of a Risk Management Plan (RMP); and

- (3) A verification to IDEM, OAM, that a RMP or a revised plan was prepared and submitted as required by 40 CFR 68.
- (b) Provide annual certification to IDEM, OAM, that the Risk Management Plan is being properly implemented.

All documents submitted pursuant to this condition shall include the certification by the “responsible official” as defined by 326 IAC 2-7-1(34).

29. Condition C.18 (now renumbered as C.16) (Compliance Monitoring Plan-Failure to Take Response Steps) the following rule cites were changed and added to the title, as follows:

~~C.4816~~ Compliance Monitoring Plan - Failure to Take Response Steps [326 IAC 2-7-5(~~3~~)]
[326 IAC 2-7-6] [326 IAC 1-6]

30. Condition C.19 (now renumbered as C.17) is revised to add the following rule cites to the title, and clarify that any submittal under this condition does not require a certification by a responsible official.

~~C.4917~~ 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 corrective actions. The Permittee shall submit a description of these corrective actions to IDEM, OAM, within thirty (30) days of receipt of the test results. The Permittee shall take appropriate action to minimize emissions from the affected facility while the corrective actions are being implemented. IDEM, OAM shall notify the Permittee within thirty (30) days, if the corrective actions taken are deficient. The Permittee shall submit a description of additional corrective actions taken to IDEM, OAM within thirty (30) days of receipt of the notice of deficiency. IDEM, OAM reserves the authority to use enforcement activities to resolve noncompliant stack tests.
- (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, OAM that retesting in one-hundred and twenty (120) days is not practicable, IDEM, OAM may extend the retesting deadline. Failure of the second test to demonstrate compliance with the appropriate permit conditions may be grounds for immediate revocation of the permit to operate the affected facility.

The documents submitted pursuant to this condition do not require the certification by the “responsible official” as defined by 326 IAC 2-7-1(34).

31. Conditions C.20 (a) and (b) (now renumbered as C.18 (a) and (b)) (Emission Statement) has been revised to clarify the certification requirement for the emission statement.

~~C.2018~~ 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 ~~certified~~, annual emission statement **certified pursuant to the requirements of 326 IAC 2-6**, that must be received by ~~April 15~~ **July 1** of each year and must comply with the minimum requirements specified in 326 IAC 2-6-4. The annual emission statement shall meet the following requirements:

- (1) ~~Contain~~ **Indicate** actual emissions of criteria pollutants from the source, ~~in compliance with 326 IAC 2-6 (Emission Reporting);~~
 - (2) ~~Indicate~~ **Indicate** actual emissions of other regulated pollutants from the source, ~~for purposes of Part 70 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:

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

32. Condition C.22 (now renumbered as C.20) (General Record Keeping) is revised to add the following rule citation and to change the requirements for keeping records, making records available, and furnishing records, to more closely match the rule language as follows:

C.2220 General Record Keeping Requirements [326 IAC 2-7-5(3)(B)]**[326 IAC 2-7-6]**

- (a) Records of all required monitoring data and support information 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 kept at the source location **for a minimum of three (3) years** and available **upon the request** ~~within one (1) hour upon verbal request~~ of an IDEM, OAM, **(and local agency when applicable)** representative, ~~for a minimum of three (3) years. They~~ **The records** may be stored elsewhere for the remaining two (2) years **as long as they are available upon request** ~~providing they are made available within thirty (30) days after written request.~~ **If the Commissioner makes a written request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.**

33. Condition C.23 (now renumbered as C.21) (General Reporting Requirements) is revised to clarify what is included in the compliance monitoring reports and clarify that any submittal under this condition does not require a certification by a responsible official. The deviation terminology was moved to a Section B condition titled Deviations from Permit Requirements and Conditions.

C.2321 General Reporting Requirements [326 IAC 2-7-5(3)(C)]

- ~~(a) 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 Management
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015~~

- (a) **To affirm that the source has met all the compliance monitoring requirements stated in this permit the source shall submit a Quarterly Compliance Monitoring Report. Any deviation from the requirements and the date(s) of each deviation must be reported.**
- (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 Management
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015**

~~(b)~~(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, OAM, on or before the date it is due.

~~(e)~~(d) Unless otherwise specified in this permit, any quarterly report shall be submitted within thirty (30) days of the end of the reporting period.

~~(d)~~(e) All instances of deviations **as described in Section B- Deviations from Permit Requirements Conditions** must be clearly identified in such reports. ~~A reportable deviation is an exceedance of a permit limitation or a failure to comply with a requirement of the permit or a rule. It does not include:~~

~~_____ (1) An excursion from compliance monitoring parameters as identified in Section D of this permit unless tied to an applicable rule or limit; or~~

~~_____ (2) An emergency as defined in 326 IAC 2-7-1(12); or~~

~~_____ (3) Failure to implement elements of the Preventive Maintenance Plan unless lack of maintenance has caused or contributed to a deviation.~~

~~_____ (4) Failure to make or record information required by the compliance monitoring provisions of Section D unless such failure exceeds 5% of the required data in any calendar quarter.~~

~~_____ A Permittee's failure to take the appropriate response step when an excursion of a compliance monitoring parameter has occurred or failure to monitor or record the required compliance monitoring is a deviation.~~

(e)(f) Any corrective actions or response steps taken as a result of each deviation must be clearly identified in such reports.

(f)(g) The first report shall cover the period commencing on the date of issuance of this permit and ending on the last day of the reporting period.

The documents submitted pursuant to this condition do not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

34 The facility description box in Section D is revised to include the rule citation:

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

35. Condition D.1.1 has been revised as follows:

D.1.1 Volatile Organic Compounds (VOC) [326 IAC 8-2-9] [326 IAC 8-1-6]

- (a) 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 Radiator Booth, which was constructed in 1994, shall be limited to 3.5 pounds of VOCs per gallon of coating less water, for forced warm air dried coatings.
- (b) 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.
- ~~(b)(c) The Engine Booth, Stern Drive Booth, Diesel Engine Booth and Transmission Booth were all constructed before January 1, 1980. Therefore, neither 326 IAC 8-1-6 nor 326 IAC 8-2-9 applies to any of these booths. Any change or modification to the Engine Booth, Stern Drive Booth, Diesel Engine Booth or Transmission Booth that may increase the VOC usages to 25 tons per year must meet the requirements of 326 IAC 8-1-6. be approved by the Office of Air Management (OAM) before such change can occur.~~

36. Condition D.1.4 (Testing Requirements) was revised as follows:

D.1.4 Testing Requirements [326 IAC 2-7-6(1),(6)]

~~Testing of The Permittee is not required to test this facility is not specifically required by this permit. However, IDEM may require compliance testing at any specific time when necessary to determine if the facility is in compliance. If testing is required by IDEM, compliance with the VOC and PM limits specified in Conditions D.1.1 and D.1.2 shall be determined by a performance test conducted in accordance with Section C - Performance Testing. This does not preclude testing requirements on this facility under 326 IAC 2-7-5 and 326 IAC 2-7-6.~~

37. Conditions D.1.6 (Monitoring) and D.1.7 (Record Keeping Requirements) have been revised as follows:

D.1.6 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, ~~daily~~ **weekly** observations shall be made of the overspray from the spray booth stacks 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 Monitoring Plan - Failure to Take Response Steps, shall be considered a violation of this permit.
- (b) ~~Weekly~~ **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 ~~an overspray emission, evidence of overspray emission, or other abnormal emission~~ **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 Monitoring Plan - Failure to Take Response Steps, shall be considered a violation of this permit.

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

D.1.7 Record Keeping Requirements

- (a) To document compliance with Condition D.1.1, the Permittee shall maintain records in accordance with (1) through (6) below. Records maintained shall be taken daily for (1) through (3) and monthly for (4) through (6) and shall be complete and sufficient to establish compliance with the VOC emission limits established in Condition D.1.1.
 - (1) The VOC content of each coating material and solvent used in the Radiator Booth. Records shall include purchase orders, invoices, and material safety data sheets (MSDS) necessary to verify the type and amount used. Solvent usage records shall differentiate between those added to coatings and those used as cleanup solvents;
 - (2) A log of the date of use;
 - (3) The volume weighted VOC content of the coatings used for each day;
 - (4) The cleanup solvent usage as well as how the waste solvent is collected and disposed for each month;
 - (5) The total VOC usage for each month; and
 - (6) The weight of VOC emitted for each compliance period.
- (b) To document compliance with Condition D.1.6, the Permittee shall maintain a log of ~~daily~~ **weekly** overspray observations, daily and ~~weekly~~ **monthly** inspections, and those additional inspections prescribed by the Preventive Maintenance Plan.
- (c) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

38. The last paragraph of Condition D.2.1 has been revised as follows:

These fuel usage limits, shall limit source wide VOC, NOx and CO ~~emissions to less than~~ **potential to emit to** 249 tons per year each and shall render the requirements of 326 IAC 2-2 (PSD) not applicable.

39. U. S. EPA and OAM have eliminated the attainment designation status for TSP. It is no longer necessary for sources located in previously designated TSP nonattainment areas to limit source wide PM emissions to less than 100 tons per year to avoid the 326 IAC 2-3 (Emission Offset) rules. Therefore, Condition 2.2 was removed.

40. Condition D.2.3 (now renumbered as D.2.2) (Testing Requirements) was revised as follows:

D.2.2 Testing Requirements [326 IAC 2-7-6(1),(6)]

~~Testing of The Permittee is not required to test~~ this facility ~~is not specifically required~~ by this permit. However, **IDEM may require compliance testing at any specific time when necessary to determine if the facility is in compliance.** If testing is required by IDEM, compliance with the VOC, NOx and CO limits specified in Condition D.2.1 shall be determined by a performance test conducted in accordance with Section C - Performance Testing. ~~This does not preclude testing requirements on this facility under 326 IAC 2-7-5 and 326 IAC 2-7-6.~~

41. One (1) new Condition D.2.3 was added to the permit as follows:

D.2.3 Fuel Usages

Compliance with Condition D.2.1 shall be demonstrated at the end of each month based on the total natural gas, #2 diesel fuel and gasoline usages for the most recent month.

42. Condition D.3.3 (Testing Requirements) was revised as follows:

D.3.3 Testing Requirements [326 IAC 2-7-6(1),(6)]

~~Testing of The Permittee is not required to test this facility is not specifically required by this permit. However, IDEM may require compliance testing at any specific time when necessary to determine if the facility is in compliance. If testing is required by IDEM, compliance with the PM limit specified in Condition D.3.1 shall be determined by a performance test conducted in accordance with Section C - Performance Testing. This does not preclude testing requirements on this facility under 326 IAC 2-7-5 and 326 IAC 2-7-6.~~

43. The first paragraph of Condition D.3.6 has been revised as follows:

D.3.6 Parametric Monitoring

The Permittee shall record the total static pressure drop across the baghouse used in conjunction with the grinding and machining processes, **as well as the water flow rate and total static pressure drop across the wet scrubber used in conjunction with the salt bath metal cleaning system**, at least once weekly when the grinding and machining **or salt bath cleaning processes** are in operation when venting to the atmosphere.

44. One (1) new Condition D.3.7 was added to the permit as follows:

D.3.7 Baghouse Inspections

An inspection shall be performed each calender quarter of all bags controlling the woodworking operation when venting to the atmosphere. A baghouse inspection shall be performed within three months of redirecting vents to the atmosphere and every three months thereafter. Inspections are optional when venting to the indoors. All defective bags shall be replaced.

45. Condition D.3.8 (Broken or Failure of Bag/Wet Scrubber Detection) has been revised as follows:

D.3.8 Broken or Failed Bag/Wet Scrubber Failure Detection

In the event that bag **or wet scrubber** failure has been observed:

- (a) The affected compartments will be shut down immediately until the failed units have been repaired or replaced. **Within eight (8) 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) hours of discovery of the failure and shall include a timetable for completion. 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).**
- (b) ~~Based upon the findings of the inspection, any additional response steps will be devised within eight (8) hours of discovery and will include a timetable for completion~~ **For single compartment baghouses, 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).

46. Condition No. D.4.1 has been revised as follows:

D.4.1 Particulate Matter (PM) [326 IAC 6-2-34]

Pursuant to 326 IAC 6-2-34 (Particulate Matter Emission Limitations for Sources of Indirect Heating, the PM emissions from the 4.5 mmBtu per hour heat input boiler shall be limited to 0.6 pounds per mmBtu heat input. **The allowable emission is calculated using the following equation:**

$$Pt = 1.09 / Q^{0.26}$$

where:

**Pt is the allowable emissions in lb/mmBtu; and
Q equals to total rated capacity of source heating capacity in
mmBtu/hr.**

47. Condition D.4.6 (Testing Requirements) was revised as follows:

D.4.6 Testing Requirements [326 IAC 2-7-6(1),(6)]

~~Testing of The Permittee is not required to test this facility is not specifically required by this permit. However, IDEM may require compliance testing at any specific time when necessary to determine if the facility is in compliance. If testing is required by IDEM, compliance with the PM limits specified in Condition D.4.5 shall be determined by a performance test conducted in accordance with Section C - Performance Testing. This does not preclude testing requirements on this facility under 326 IAC 2-7-5 and 326 IAC 2-7-6.~~

48. The Certification Form is revised to clarify which forms require a certification.

49. The Emergency/Deviation Occurrence Reporting Form is revised to eliminate the certification requirement and the fax number in the heading of the report has been changed to 317-233-5967.

50. The Quarterly Compliance Report is renamed the Quarterly Compliance Monitoring Report and is revised to make it easier to understand and use.

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

**PART 70 OPERATING PERMIT
CERTIFICATION**

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.: T037-7736-00089

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:

9 Annual Compliance Certification Letter

~~9 Emergency/Deviation Occurrence Reporting Form~~

9 Test Result (specify) _____

9 Report (specify) _____

9 Notification (specify) _____

9 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:

Date:

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR MANAGEMENT
COMPLIANCE DATA SECTION
P.O. Box 6015
100 North Senate Avenue
Indianapolis, Indiana 46206-6015
Phone: 317-233-5674
Fax: 317-233-5967**

**PART 70 OPERATING PERMIT
EMERGENCY/DEVIATION OCCURRENCE 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.: T037-7736-00089

This form consists of 2 pages

Page 1 of 2

Check either No. 1 or No.2	
9 1.	This is an emergency as defined in 326 IAC 2-7-1(12)
C	The Permittee must notify the Office of Air Management (OAM), 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) days (Facsimile Number: 317-233-5967), and follow the other requirements of 326 IAC 2-7-16
9 2.	This is a deviation, reportable per 326 IAC 2-7-5(3)(c)
C	The Permittee must submit notice in writing within ten (10) calendar days

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/Deviation:
Describe the cause of the Emergency/Deviation:

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

Page 2 of 2

Date/Time Emergency/Deviation started:
Date/Time Emergency/Deviation was corrected:
Was the facility being properly operated at the time of the emergency/deviation? 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/deviation:
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: _____

~~Attach a signed certification to complete this report.~~

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

**PART 70 OPERATING PERMIT
 QUARTERLY COMPLIANCE MONITORING 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.: T037-7736-00089

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

This report is an affirmation that the source has met all the **compliance monitoring** requirements stated in this permit. This report shall be submitted quarterly. Any deviation from the **compliance monitoring** requirements and the date(s) of each deviation must be reported. Additional pages may be attached if necessary. This form can be supplemented by attaching the Emergency/Deviation Occurrence Report. If no deviations occurred, please specify ~~zero in the column marked "No Deviations"~~ **in the box marked "No deviations occurred this reporting period"**.

9 NO DEVIATIONS OCCURRED THIS REPORTING PERIOD.

9 THE FOLLOWING DEVIATIONS OCCURRED THIS REPORTING PERIOD: LIST EACH COMPLIANCE REQUIREMENT EXISTING FOR THIS SOURCE:

<u>Compliance Monitoring Requirement</u> (e.g. Permit Condition D.1.3)	Number of Deviations	Date of each Deviations	No Deviations

Form Completed By: _____
 Title/Position: _____
 Date: _____
 Phone: _____

Attach a signed certification to complete this report.

On February 4, 1998, Jasper Engine Exchange, Inc. submitted comments on the proposed Part 70 Operating Permit. The summary of the comments and corresponding responses is as follows:

Comment #1:

Section A.1 incorrectly lists Michael A. Schenk as the responsible Official. The correct name should be Michael A. **Schwenk**.

Response #1:

Section A.1 was revised accordingly.

Comment #2:

The prefix for all paint booths should be PTB not PB as listed in Sections A.1 and D.1.

Response #2:

The prefix for all paint booths in Sections A.1 and D.1 have been changed to PTB.

Comment #3:

Twelve (12) gas test stands, identified as GTS001-GTS012, are not listed in either Section A.2 (page 5 of 46) or Section A.3.

Response #3:

The twelve (12) gas-fired test stands have a total rated heat input of 0.088 million British thermal units (mmBtu) per hour and can be qualified as insignificant activities, as defined in 326 IAC 2-7-1 (21), without being subject to any applicable regulation. Therefore, the twelve (12) gas-fired test stands were added to the list of insignificant activities (as item # (38)) in the TSD, but not in the Part 70 Permit. These test stands are listed as follows:

(38) Twelve (12) gas test stands, identified as GTS001-GTS012, with a total rated capacity of 0.088 mmBtu/hr.

Comment #4:

Item (8) of Section A.3 incorrectly lists BLA008 as one of the five (5) baghouses. It should be **BLA009**.

Response #4:

Item (8) of both Sections A.3 and D.4 (page 38 of 46) has been revised as follows:

(8) five (5) baghouses, identified as BLA007, ~~BLA008~~**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;

Comment #5:

Jasper Engine Exchange recently revised the emissions from the salt bath metal cleaning system, which is controlled by a wet scrubber (ID KOL003) and submitted a new set of Forms PI-26. The revised information was based on the latest stack testing results and more accurately characterizes the potential and controlled emissions.

Response #5:

Based on the revised emission calculations, the salt bath for metal cleaning, with PM emissions controlled by a wet scrubber, has potential uncontrolled PM and VOC emissions of 50.1 and 8.9 tons per year, respectively. PM emissions are controlled at 15.0 tons per year. With these revised emissions the facility should have been listed under Section A.2 in lieu of A.3. Therefore, item (11) in both Sections A.3 and D.4 has been removed, and was added to Sections A.2 and D.3 as item (17). Additionally, Section D.3 has been revised to require compliance monitoring for the salt bath cleaning due to these changes in emission calculations. The revisions to Section D.3 are presented in the next three (3) pages, and all conditions relating to the salt bath metal cleaning have been removed from Section D.4.

SECTION D.3 FACILITY OPERATION CONDITIONS

- (16) three (3) baghouses, identified as DUC004, DUC005 and DUC023, 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.
- (17) **one (1) salt bath metal cleaning system, using a wet scrubber, identified as KOL003, for particulate emissions control.**

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

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

~~Pursuant to 326 IAC 6-3 (Process Operations), the allowable PM emission rate from Baghouses DUC004, DUC005 and DUC023 shall not exceed 0.68, 0.68 and 0.82 pounds per hour, respectively, when operating at a process weight rate of 3000, 3000, and 4000 pounds per hour, respectively. These emissions limits, in conjunction with the fuel usage limits in D.2.1 and the emission limits in D.4.7, shall limit source wide PM emissions to less than 99 tons per year. Therefore, the 326 IAC 2-3 (Emission Offset) rules do not apply.~~

- (a) **Pursuant to 326 IAC 6-3 (Process Operations), the allowable PM emission rate from Baghouses DUC004, DUC005 and DUC023 shall not exceed 0.68, 0.68 and 0.82 pounds per hour, respectively, when operating at a process weight rate of 3000, 3000, and 4000 pounds per hour, respectively.**
- (b) **Pursuant to 326 IAC 6-3 (Process Operations), the allowable PM emission rate from the salt bath system shall not exceed 12.1 pounds per hour, when operating at a process weight rate of 10,000 pounds per hour.**

The above pounds per hour limitations were calculated with the following equation:

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

P = process weight rate in tons per hour

D.3.2 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for these facilities and their control devices.

Compliance Determination Requirements

D.3.3 Testing Requirements [326 IAC 2-7-6(1),(6)]

~~Testing of The Permittee is not required to test~~ this facility ~~is not specifically required~~ by this permit. However, **IDEM may require compliance testing at any specific time when necessary to determine if the facility is in compliance.** If testing is required by IDEM, compliance with the PM limit specified in Condition D.3.1 shall be determined by a performance test conducted in accordance with Section C - Performance Testing. ~~This does not preclude testing requirements on this facility under 326 IAC 2-7-5 and 326 IAC 2-7-6.~~

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

D.3.4 Particulate Matter (PM)

The baghouses **and the wet scrubber** for PM control shall be in operation at all times when the grinding and machining operation, **and the salt bath metal cleaning system** are in operation and exhausting to the outside atmosphere.

D.3.5 Visible Emissions Notations

- (a) Daily visible emission notations of the stack exhausts for Baghouses DUC004, DUC005 and DUC023, **and wet scrubber KOL003** shall be performed during normal daylight operations **when venting 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.

D.3.6 Parametric Monitoring

The Permittee shall record the total static pressure drop across the baghouse used in conjunction with the grinding and machining processes, **as well as the water flow rate and total static pressure drop across the wet scrubber used in conjunction with the salt bath metal cleaning system**, at least once weekly when the grinding and machining **or salt bath cleaning processes** are in operation when venting to the atmosphere.

Unless operated under conditions for which the Compliance Response Plan specifies otherwise, the pressure drop across each of the baghouses shall be maintained within the range of 1.0 and 6.0 inches of water **and the water flow rate and pressure drop across the wet scrubber shall be maintained within the ranges of 90 to 125 gallons per minute and 19 and 23 inches of water, respectively**, or the ranges established during the latest stack test. The Compliance Response Plan for this unit shall contain troubleshooting contingency and corrective actions for when the pressure reading is outside of the above mentioned range for any one reading.

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

D.3.7 Broken Bag or Wet Scrubber Failure Detection

In the event that bag **or wet scrubber** failure has been observed:

- (a) The affected compartments will be shut down immediately until the failed units have been repaired or replaced. **For single compartment baghouses, failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced.**
- (b) ~~Based upon the findings of the inspection, any additional response steps will be devised within eight (8) hours of discovery and will include a timetable for completion~~ **Within eight (8) 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) hours of discovery of the failure and shall include a timetable for completion.**

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

D.3.8 Record Keeping Requirements

- (a) To document compliance with Conditions D.3.4 and D.3.5, the Permittee shall maintain records of daily visible emission notations of the baghouse stack exhausts.
- (b) To document compliance with Condition D.3.6, the Permittee shall maintain the following:

~~(1) Daily records of the Inlet and outlet differential static pressure during normal operation:~~

(1) Daily records of the following operational parameters during normal operation:

- (A) Inlet and outlet differential static pressure for baghouses and wet scrubber;**
- (B) Cleaning cycle for baghouses: frequency and differential pressure; and**
- (C) Wet scrubber water flow rate.**

- (2) Documentation of all response steps implemented, per event .
 - (3) Operation and preventive maintenance logs, including work purchases orders, shall be maintained.
 - (4) Quality Assurance/Quality Control (QA/QC) procedures.
 - (5) Operator standard operating procedures (SOP).
 - (6) Manufacturer's specifications or its equivalent.
 - (7) Equipment "troubleshooting" contingency plan.
 - (8) Documentation of the dates vents are redirected.**
- (c) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

Comment #6:

Jasper Engine requests that the statement "schedule for devising additional response steps for situations that may not have been predicted" in Condition C.18(a)(5)(B) be removed, because it would be very difficult to devise a time schedule for responses to events not yet predicted.

Response #6:

Although it would be difficult to devise a time schedule for responses to events not yet predicted, the source will be best qualified to predict different possible scenarios and set up time schedules for each event. Therefore, Condition C.18(a)(5)(B) remains unchanged.

Comment #7:

For item (5) of the equipment list in both Sections A.2 and D.1, the Transmission Booth is capable of painting twenty (20) units per hour, not two (2) units per hour.

Response #7:

Changing Transmission Booth's coating capacity shall not affect the source's potential to emit VOC and PM. Therefore, the Transmission Booth's coating capacity in both Sections A.2 and D.1 was changed to twenty (20) units per hour.

Comment #8:

Jasper requests that the daily record keeping requirements in Conditions D.1.7(a)(1,2,3) be changed to monthly record keeping requirements due to the low paint usage at the facilities covered under Section D.1 (a total of 77 gallons of paint were purchased in 1997).

Response #8:

Although the paint usage at the facilities covered under Section D.1 is low, 326 IAC 8-2-9 requires the paint usage be in compliance with the VOC emission limit in Condition D.1.1 at all times. Therefore, Condition D.1.7 remained unchanged.

Comment #9:

All facilities covered under Section D.3 Item (16) are exhausting indoors and should not be subject to the compliance monitoring requirements in Condition D.3.5 (a). The operator and other nearby personnel will quickly notice any discharge from a unit.

Response #9:

Condition D.3.5 (a) covers situations when emissions are exhausting to the atmosphere. Therefore, Condition D.3.5 (a) has been revised as follows:

D.3.5 Visible Emissions Notations

- (a) Daily visible emission notations of the stack exhausts for Baghouses DUC004, DUC005 and DUC023, and wet scrubber KOL003 shall be performed during normal daylight operations **when venting to the atmosphere**. A trained employee shall record whether emissions are normal or abnormal.

Comment #10:

All facilities covered under Section D.4 are exhausting indoors and should not be subject to the compliance monitoring requirements in Condition D.4.7 (a). The operator and other nearby personnel will quickly notice any discharge from a unit.

Response #10:

Condition D.4.7 (a) covers situations when emissions are exhausting to the atmosphere. Therefore, Condition D.4.7 (a) has been revised as follows:

D.4.8 Visible Emissions Notations

- (a) Daily visible emission notations of the stack exhausts for Baghouse BLA009, BLA017, BLA018, DUC001, DUC027 and DUC030 shall be performed during normal daylight operations **when venting to the atmosphere**. A trained employee shall record whether emissions are normal or abnormal.

Comment #11:

In the section under state rule applicability of TSD (page 8 of 14) that discusses the applicability of rule 326 IAC 6-2-3, the construction date for the 4.5 mmBtu/hr natural gas fired boiler should be after September 21, 1983, not before the date.

Response #11:

Since the 4.5 mmBtu/hr natural gas fired boiler was constructed after September 21, 1983, the applicable rule should be 326 IAC 6-2-4, not 326 IAC 6-2-3. Therefore, the section discussing 326 IAC 6-2-3 applicability is revised as follows:

326 IAC 6-2-3 4 (Particulate Emissions Limitations for Sources of Indirect Heating)

The 4.5 mmBtu/hr natural gas fired boiler, which was in operation after September 21, 1983, is subject to 326 IAC 6-2-3 4 (Particulate Emissions Limitations for Sources of Indirect Heating). Pursuant to this rule, particulate emissions from indirect heating facilities shall be limited by the following equation:

$$Pt = \frac{C \times a \times h}{76.5 \times Q^{0.75} \times N^{0.25}} = \frac{50 \times 0.67 \times 25}{76.5 \times 4.5^{0.75} \times 1^{0.25}} = 3.54 \text{ lb/mmBtu}$$

$$Pt = 1.09 / Q^{0.26} = 1.09 / 4.5^{0.26} = 0.74 \text{ lb/mmBtu}$$

The allowable particulate emission rate from the 4.5 mmBtu/hr boiler, based on the above equation, is ~~3.54~~ **0.74** pounds per mmBtu heat input which is higher than the maximum of 0.6 pounds per mmBtu heat input allowed by 326 IAC ~~6-2-3(d)~~ **6-2-4(a)**. Therefore, the allowable PM emissions for the 4.5 mmBtu/hr boiler is 0.6 pounds per mmBtu heat input. The boiler emits a maximum of 0.01 pounds PM per mmBtu heat input, and is in compliance with 326 IAC ~~6-2-3-6-2-4..~~

Comment #12:

In the Air Toxics Table of the TSD (page 13 of 14), ethylene chloride should be methylene chloride.

Response #12:

The Air Toxics Table was revised as follows:

Air Toxics Analysis

Pollutant	Rate (lb/hr)	Rate (ton/yr)	Modeled Conc. (Fg/m ³)	OSHA PEL (Fg/m ³)	% OSHA PEL
Xylene	4.97	21.76	1,998	435,000	0.46%
Toluene	5.08	22.26	2,204	752,000	0.29%
MEK	3.50	15.34	1,409	590,000	0.24%
Cobalt	0.01	0.04	4	100	4.00%
Ethylene Glycol	1.43	6.27	576	125,000	0.46%
111-Trichloroethane	0.08	0.35	32	1,900,000	0.00%
MIBK	0.04	0.18	17	410,000	0.00%
Ethylene Chloride Methylene Chloride	0.03	0.11	10	2,600,000 80,000	0.00% 0.02%
Formaldehyde	0.01	0.02	2	930	0.22%
Hexane	0.02	0.09	8	1,800,000	0.00%

Comment #12:

On page 7 of 11 TSD Appendix A (Emission Calculations), the weight % solids for MF-10R1 should be 18% in lieu of 1800%.

Response #12:

The weight % solids for MF-10RI on page 7 of 11 TSD Appendix A (Emission Calculations) was changed to 18%. As a result, the PTE PM and PM-10 from aerosol spray was reduced from 2.36 tons per year to 0.44 tons per year and source wide PTE PM and PM-10 was reduced from 39.9 tons per year to 38.0 tons per year. There were no changes in Federal or State rule applicability due to the revision.

Comment #13:

The title of the bottom section of page 7 of 11 TSD Appendix A (Emission Calculations) should read "Limited Emissions".

Response #13:

Page 7 of 11 TSD Appendix A (Emission Calculations) was revised to correct the misspelling.

**Appendix A: Emission Calculations
(Source Wide Summary)**

Company Name: Jasper Engine Exchange, Inc.
Address City IN Zip: 815 Wernsing Road, Jasper, IN 47547
CP: T037-7736
Plt ID: 037-00089
Reviewer: Scott Pan/EVP
Date: September 16, 1997

Potential Emissions (tons/year, uncontrolled)

Pollutant	Emissions Generating Activity						Total Emissions (tons/yr)
	Surface Coating	Combustion	Dust Collectors	Degreasing	Aerosol Spray	Cleaning & Final Wash	
VOC	119.4	251.5	0.0	91.6	6.3	6.5	475.3
PM	31.8	58.6	125.6	0.0	0.4	0.0	216.5
PM10	31.8	58.6	125.6	0.0	0.4	0.0	216.5
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	4035.9	0.0	0.0	0.0	0.0	4035.9
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)

Pollutant	Emissions Generating Activity						Total
	Surface Coating	Combustion**	Dust Collectors	Degreasing	Aerosol Spray	Cleaning & Final Wash	
VOC	119.4	8.9	0.0	91.6	6.3	6.5	232.7
PM	31.8	4.5	1.2	0.0	0.4	0.0	38.0
PM10	31.8	4.5	1.2	0.0	0.4	0.0	38.0
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	44.4	0.0	0.0	0.0	0.0	44.4
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 mmSCF/yr of natural gas.

These limitations will limit source wide VOC, NOx and CO emissions to less than 249 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
CP: T037-7736
Plt ID: 037-00089
Reviewer: Scott Pan/EVP
Date: September 16, 1997**

State 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%	
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 State Potential Emissions:												87.61	2102.66	119.36	31.83			

Federal Potential Emissions (controlled):

Total Federal Potential Emissions:	Control Efficiency:		Controlled VOC lbs per Hour	Controlled VOC lbs per Day	Controlled VOC tons per Year	Controlled PM tons/yr
	VOC	PM				
	0.00%	85.00%	87.61	2102.66	119.36	4.77

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 hrs/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
From Fuel Combustion Operations**

Company Name: Jasper Engine Exchange, Inc.
Address City IN Zip: 815 Wernsing Road, Jasper, IN 47547
CP: T037-7736
Plt ID: 037-00089
Reviewer: Scott Pan/EVP
Date: September 16, 1997

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	11.2	11.2	0.6	94.0	11.0	40.0	0.5	0.5	0.0	4.3	0.5	1.8
Nat. Gas Fired Heaters (>0.3 & < 10 mmBtu/hr) (c)	24	19.44	170.3	11.9	11.9	0.6	100.0	5.8	21.0	1.0	1.0	0.1	8.5	0.5	1.8
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	11.9	11.9	0.6	100.0	5.8	21.0	0.2	0.2	0.0	2.0	0.1	0.4
Engines (unlimited)															
IC Engines - Nat. Gas Fired (e)	32	18.16	159.1	10.0	10.0	0.6	3400.0	82.9	430.0	0.8	0.8	0.0	270.5	6.6	34.2
IC Engines - Diesel Fuel Fired (f)	5	36.75	2332.8	0.31	0.31	0.29	4.41	0.36	0.95	49.9	49.9	46.7	709.9	57.9	152.9
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:										58.6	58.6	52.0	1095.1	251.5	4035.9
Engines (limited)															
IC Engines - Nat. Gas Fired (e)	32	18.16	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)	5	36.75	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:										4.5	4.5	2.2	248.9	8.9	44.4

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 249 tons/yr. Therefore, the requirements of PSD, 326 IAC 2-2, do not apply.

**Appendix A: Emission Calculations
Particulate Matter**

**Company Name: Jasper Engine Exchange, Inc.
Address City IN Zip: 815 Wernsing Road, Jasper, IN 47547
CP: T037-7736
Plt ID: 037-00089
Reviewer: Scott Pan/EVP
Date: September 16, 1997**

ID #	Location	CFM	Control Efficiency	Process Weight Rate (lb/hr)	Allowable Emissions		Uncontrolled Emissions (ton/yr) (c)	Controlled Emissions		Compliance with 326 IAC 6-3
					per 326 IAC 6-3 (lb/hr) (a)	Truncated (lb/hr) (b)		(ton/yr)	(lb/hr)	
BLA007	H Perf Sand Blast	420	99.00%	1782	3.79	0.48	0.716	7.16E-03	1.64E-03	Y
BLA009	Gas Teardown	1250	99.80%	1782	3.79	0.48	11.222	2.24E-02	5.12E-03	Y
BLA011	Serv-Radiator	420	99.00%	1782	3.79	0.48	3.582	3.58E-02	8.18E-03	Y
BLA017	Aluminum Head Blaster	750	99.00%	1782	3.79	0.48	23.568	2.36E-01	5.38E-02	Y
BLA018	Transmission Sand Blast	420	99.00%	1782	3.79	0.48	11.941	1.19E-01	2.73E-02	Y
DUC001	Oil Pan Room	4000	99.90%	1800	3.82	0.48	8.875	8.88E-03	2.03E-03	Y
DUC002	G Head by Kol	1200	99.00%	800	2.22	0.28	0.943	9.43E-03	2.15E-03	Y
DUC003	Die Head N Wall	2000	99.90%	2000	4.10	0.51	0.888	8.88E-04	2.03E-04	Y
DUC004	D Buff. Gas Head	4800	99.00%	3000	5.38	0.68	7.542	7.54E-02	1.72E-02	Y
DUC005	D Buff DWNDR	4800	99.00%	3000	5.38	0.68	5.374	5.37E-02	1.23E-02	Y
DUC006	New Tool & Die	18000	99.90%	2000	4.10	0.51	1.775	1.78E-03	4.05E-04	Y
DUC013	D. Teardown	1550	99.00%	1500	3.38	0.42	1.885	1.89E-02	4.30E-03	Y
DUC014	D. Block (S Wall)	2000	99.00%	2000	4.10	0.51	0.373	3.73E-03	8.52E-04	Y
DUC015	T Teardown	2200	99.90%	1000	2.58	0.32	1.065	1.07E-03	2.43E-04	Y
DUC017	G Block Weld	3000	99.90%	2000	4.10	0.51	1.868	1.87E-03	4.27E-04	Y
DUC018	D Welding	2000	99.00%	2000	4.10	0.51	0.179	1.79E-03	4.09E-04	Y
DUC019	G Bore/Blok Wash	1550	99.00%	800	2.22	0.28	0.094	9.43E-04	2.15E-04	Y
DUC020	Old Tool/Die	9500	99.90%	2500	4.76	0.60	3.737	3.74E-03	8.53E-04	Y
DUC021	High Performance	2000	99.00%	600	1.83	0.23	0.179	1.79E-03	4.09E-04	Y
DUC022	T Buffing North	2200	99.90%	1200	2.91	0.37	1.775	1.78E-03	4.05E-04	Y
DUC023	Diff by Restrm	6000	99.90%	4000	6.52	0.82	8.875	8.88E-03	2.03E-03	Y
DUC024	Gas Cam Area	250	99.90%	200	0.88	0.11	0.296	2.96E-04	6.75E-05	Y
DUC027	D Fuel RM TD	3000	99.90%	800	2.22	0.28	14.200	1.42E-02	3.24E-03	Y
DUC028	Convert teardown	1200	99.00%	400	1.39	0.18	0.896	8.96E-03	2.04E-03	Y
DUC029	Converterland	6000	99.90%	2500	4.76	0.60	0.533	5.33E-04	1.22E-04	Y
DUC030	Aluminum Head	2000	99.00%	1500	3.38	0.42	9.427	9.43E-02	2.15E-02	Y
DUC031	Diesel Buffing	1200	99.00%	1000	2.58	0.32	1.885	1.89E-02	4.30E-03	Y
DUC035	G Head Cleaning	400	99.00%	800	2.22	0.28	0.471	4.71E-03	1.08E-03	Y
KOL003	Kolene Scrubber (d)	15000	70.00%	10250	12.25	1.54	1.408	4.22E-01	9.64E-02	Y
Total Potential Emissions:					110.2	13.8	125.6	1.18	0.27	

Methodology:

(a) Pursuant to 326 IAC 6-3-2, allowable emissions are calculated by:

$$E = 4.1 P^{0.67} \quad \text{for } P \text{ (process wt. rate in ton/hr)} \leq 30 \text{ ton/hr}$$

$$OE = 55 P^{0.11} - 40 \quad \text{for } P \text{ (process wt. rate in ton/hr)} > 30 \text{ ton/hr}$$

(b) Allowable PM emissions from grinding, machining and salt bath cleaning operations are truncated such that total PM emissions are limited to (99 - 38.4 ton/yr from other facilities) or 13.8 lb/hr. Therefore, the requirements for 326 IAC 2-3 do not apply.

(c) Potential PM Emissions = Pounds dust collected (lb/yr) / operating hours per day (hr/day) / 247 days/yr / Control Eff. (%) * 8760 hr/yr / 2000 (lb/ton) = ton/yr

(d) Potential emissions from Kolene Scrubber = Outlet loading (0.00175 gr/acf) * 15,000 acfm * 60 min/hr * (1/7000) lb/gr * 8760 hr/yr / 2000 lb/ton / cont. eff (70%)

Appendix A: Emission Calculations

Abrasive Blasting

Company Name: Jasper Engine Exchange, Inc.
Address City IN Zip: 815 Wernsing Road, Jasper, IN 47547
CP: T037-7736
Pit ID: 037-00089
Reviewer: Scott Pan/EVP
Date: September 16, 1997

Table 1 - Emission Factors for Abrasives

Abrasive	Emission Factor	
	lb PM / lb abrasive	lb PM10 / lb PM
Sand	0.041	0.70
Grit	0.010	0.70
Steel Shot	0.004	0.86
Other	0.010	

Table 2 - Density of Abrasives (lb/ft3)

Abrasive	Density (lb/ft3)
Al oxides	160
Sand	99
Steel	487

Table 3 - Sand Flow Rate (FR1) Through Nozzle (lb/hr)

Flow rate of Sand Through a Blasting Nozzle as a Function of Nozzle pressure and Internal Diameter

Internal diameter, in	Nozzle Pressure (psig)							
	30	40	50	60	70	80	90	100
1/8	28	35	42	49	55	63	70	77
3/16	65	80	94	107	122	135	149	165
1/4	109	138	168	195	221	255	280	309
5/16	205	247	292	354	377	420	462	507
3/8	285	355	417	477	540	600	657	720
7/16	385	472	560	645	755	820	905	940
1/2	503	615	725	835	945	1050	1160	1265
5/8	820	990	1170	1336	1510	1680	1850	2030
3/4	1140	1420	1670	1915	2160	2400	2630	2880
1	2030	2460	2900	3340	3780	4200	4640	5060

Calculations

Adjusting Flow Rates for Different Abrasives and Nozzle Diameters

Flow Rate (FR) = Abrasive flow rate (lb/hr) with internal nozzle diameter (ID)
 FR1 = Sand flow rate (lb/hr) with internal nozzle diameter (ID1) From Table 3 =
 D = Density of abrasive (lb/ft3) From Table 2 =
 D1 = Density of sand (lb/ft3) =
 ID = Actual nozzle internal diameter (in) =
 ID1 = Nozzle internal diameter (in) from Table 3 =

1050
168
99
0.5
0.5

Flow Rate (FR) (lb/hr) = 1781.8 per nozzle

**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
CP: T037-7736
Pit ID: 037-00089
Reviewer: Scott Pan/EVP
Date: September 16, 1997

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
VOC and Particulate
From Aerosol Spray Operations**

**Company Name: Jasper Engine Exchange, Inc.
Address City IN Zip: 815 Wernsing Road, Jasper, IN 47547
CP: T037-7736
Plt ID: 037-00089
Reviewer: Scott Pan/EVP
Date: September 16, 1997**

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
CP: T037-7736
Plt ID: 037-00089
Reviewer: Scott Pan/EVP
Date: September 16, 1997

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
HAP Emissions From Surface Coating Operations

Company Name: Jasper Engine Exchange
Plant Location: 815 Wernsing Rd, Jasper, IN 47547
Permit #: T037-7736-00089
Permit Reviewer: Scott Pan/EVP
Date: September 16, 1997

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	0.00	5.39
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	0.00	14.08
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	0.00	5.60
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	0.00	6.66
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	0.00	0.00	6.42
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	0.00	0.00	11.00
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	0.00	20.61
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	0.00	0.00	6.78
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	0.00	6.71
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	0.00	0.00	9.87
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	0.00	1.26
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	0.00	0.35
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	0.00	0.36
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	0.00	0.36
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	0.00	0.35
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	0.00	0.36
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/day		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	0.00	6.25	64.40

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
CP: T037-7736
Plt ID: 037-00089
Reviewer: Scott Pan/EVP
Date: September 16, 1997

Potential Emissions (uncontrolled)																
Material (as applied)	Type	Net Weight per Can (lb/can)	Maximum Usage (cans/yr)	Trichloroethyle	MEK	MIBK	Lead	Methylene chl.	Toluene	1,1,1 Trichloroeth	Xylene	Ethyl Benzene	Hexane	Glycol Ethers	Total (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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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%	
				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0194	0.0000	0.0000	
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%	
				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0209	0.0000	
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%	
				0.0000	0.0000	0.0000	0.0000	0.0000	0.0078	0.0000	0.0000	0.0000	0.0000	0.0167	0.0000	
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%	
				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0858	0.0000	0.0000	0.0000	0.0000	0.0000	
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%	
				0.0000	0.0000	0.0000	0.0000	0.0000	0.0012	0.0000	0.0004	0.0000	0.0000	0.0000	0.0000	
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%	
				0.0000	0.0000	0.0000	0.0000	0.0000	0.1024	0.0000	0.0150	0.0037	0.0000	0.0000	0.0000	
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%	
				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0682	0.0000	0.0000	
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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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%	
				0.0000	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
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%	
				0.0000	0.0000	0.1083	0.0000	0.0000	0.0000	0.0000	0.2166	0.0000	0.0000	0.0000	0.0000	
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%	
				0.0000	0.0000	0.0094	0.0056	0.0000	0.0000	0.0000	0.188	0.0000	0.0000	0.0000	0.0000	
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%	
				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.1629	0.0000	0.0000	0.0000	0.0000	
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%	
				0.0000	0.0000	0.0000	0.0000	0.1017	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
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%	
				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0201	0.0000	0.0000	0.0000	0.0000	0.0000	
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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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%	
				0.0000	0.0000	0.0000	0.0000	0.0000	0.0135	0.0000	0.0540	0.0000	0.0000	0.0000	0.0000	
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%	
				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.2446	0.0000	0.0000	0.0000	0.0000	0.0000	
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%	
				0.0000	0.0000	0.0469	0.0000	0.0000	0.4343	0.0000	0.1878	0.0469	0.0000	0.0000	0.0000	
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%	
				0.0000	0.0000	0.0000	0.0000	0.0011	0.0014	0.0000	0.0000	0.0000	0.0000	0.0001	0.0000	
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%	
				0.0000	0.0000	0.0000	0.0000	0.0100	0.0008	0.0000	0.0000	0.0000	0.0017	0.0000	0.0000	
Super Enamel Red Ox	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%	
				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0349	0.0000	0.0000	0.0000	0.0000	
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%	
				0.0000	0.0000	0.0059	0.0000	0.0000	0.0000	0.0000	0.0119	0.0000	0.0000	0.0000	0.0000	
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	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
 County: T037-7737
 Plt. ID: 037-00089
 Reviewer: Scott Pan/EVP
 Date: September 23, 1997

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	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)										Total
			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)		
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	0.00000	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	0.00000	0.00035
Engines (unlimited)													
IC Engines - Nat. Gas Fired	18.16	159.1	0.00004	0.00002	0.00005	0.00004	0.02913	0.00000	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	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	0.00000
Total Potential Emissions (unlimited)			0.00004	0.00002	0.00005	0.00037	0.03146	0.00111	0.00029	0.00021	0.00000	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	0.00000	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	0.00000	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	0.00000
Total Limited Emissions (c)			0.00003	0.00001	0.00004	0.00036	0.02425	0.00111	0.00029	0.00021	0.00000	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) 120 mmSCF/yr of natural gas.
 (c) Total limited emissions include emissions from non-engine units.