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

Mitchell E. Daniels Jr.
Governor

Thomas W. Easterly
Commissioner

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

TO: Interested Parties / Applicant

DATE: May 19, 2008

RE: Jasper Engine Exchange, Inc. / 037-26007-00089f

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

Notice of Decision: Approval – Effective Immediately

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

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

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

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

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

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

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

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

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

Enclosures
FNTV-PMOD.doc 3/27/08

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
We make Indiana a cleaner, healthier place to live.

Mitchell E. Daniels, Jr.
Governor

Thomas W. Easterly
Commissioner

100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251
(317) 232-8603
(800) 451-6027
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May 19, 2008

Mr. Robert Calvert
Jasper Engine Exchange, Inc.
P.O. Box 650
Jasper, Indiana 47547-0650

RE: 037-26007-00089
Fourth Significant Permit Modification to
Part 70 Operating Permit Renewal No.: T037-17555-00089

Dear Mr. Calvert:

Jasper Engine Exchange, Inc. was issued a Part 70 Operating Permit Renewal T037-17555-00089 on April 1, 2004 for the operation of a stationary engine, transmission and differential parts remanufacturing plant. An application to modify the source was received by the Office of Air Quality (OAQ) on October 30, 2007. Pursuant to the provisions of 326 IAC 2-7-12, a significant permit modification to this permit is hereby approved as described in the attached Technical Support Document.

Jasper Engine Exchange, Inc. has applied to construct and operate the following emission units and pollution control devices:

(a) One (1) plastic bead blast unit, approved for construction in 2008, identified as BLA-073, with a maximum capacity of 108 lb/hr of blast media, controlled by baghouse DUC-073, exhausting indoors only.

(b) One (1) soda blasting unit, approved for construction in 2008, identified as BLA-056, with a maximum capacity of 12.5 lb/hr of blast media, controlled by baghouse DUC-052, exhausting indoors only.

(c) One (1) soda blasting unit, approved for construction in 2008, identified as BLA-057, with a maximum capacity of 12.5 lb/hr of blast media, controlled by baghouse DUC-051, exhausting indoors only.

(d) One (1) baghouse, approved for construction in 2008, identified as DUC-063, with a maximum capacity of 12,000 ACFM, a capture efficiency of 100%, a control efficiency of 99.9%, and a grain loading of 0.0001 gr/dscf. This unit will replace DUC-029. It exhausts indoors only.

In addition, the source requested the correction of emission unit descriptive information and the relocation of several abrasive blasting operations and a change in the baghouses controlling emissions from these relocated units.

The changes in the Part 70 Operating Permit are documented in the Technical Support Document. All other conditions of the permit shall remain unchanged and in effect. For your convenience, the entire revised Title V Operating Permit, with all modifications and amendments made to it, is being provided.

This decision is subject to the Indiana Administrative Orders and Procedures Act - IC 4-21.5-3-5. If you have any questions on this matter, please contact David Matousek, IDEM, Permits Branch, OAQ, 100 North Senate Avenue, MC61-53 IGCN 1003, Indianapolis, Indiana 46204-2251, or call at (800) 451-6027 and ask for David Matousek or extension 2-8253, or dial direct (317) 232-8253.

Sincerely,

Original document signed by

Donald F. Robin, P.E., Section Chief
Permits Branch
Office of Air Quality

Attachments
DJM/djm

CC: File - Dubois County
U.S. EPA, Region V
Dubois County Health Department
Air Compliance Section Inspector
Compliance Branch
Administrative and Development Section

Mitchell E. Daniels, Jr.
Governor

Thomas W. Easterly
Commissioner

100 North Senate Avenue
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Part 70 Operating Permit Renewal
OFFICE OF AIR QUALITY

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

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

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

This permit is issued in accordance with 326 IAC 2 and 40 CFR Part 70 Appendix A and contains the conditions and provisions specified in 326 IAC 2-7 as required by 42 U.S.C. 7401, et. seq. (Clean Air Act as amended by the 1990 Clean Air Act Amendments), 40 CFR Part 70.6, IC 13-15 and IC 13-17.

Operation Permit Renewal No.: T037-17555-00089	
Issued by: Original Signed By Janet G. McCabe, Assistant Commissioner Permits Branch Office of Air Quality	Issuance Date: April 1, 2004 Expiration Date: April 1, 2009

First Significant Permit Modification No. 037-15567-00089, issued on February 23, 2005;
Second Significant Permit Modification No. 037-19033-00089, issued on March 15, 2005; and
Third Significant Permit Modification No. 037-22439-00089, issued on March 23, 2006.

Significant Permit Modification No.: 037-26007-00089	
Issued by: *Original document signed by* Donald F. Robin, P.E., Section Chief Permits Branch Office of Air Quality	Issuance Date: May 19, 2008 Expiration Date: April 1, 2009

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SECTION A SOURCE SUMMARY

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

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

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

Source Address:	815 Wernsing Road, Jasper, Indiana 47547
Mailing Address:	P.O. Box 650, Jasper, Indiana 47547-0650
General Source Phone Number:	(812) 482-1041
SIC Code:	3714
County Location:	Dubois
Source Location Status:	Nonattainment for PM2.5 Attainment for all other criteria pollutants
Source Status:	Part 70 Operating Permit Program Minor Source, under PSD and Emission Offset Rules Minor Source, under Nonattainment NSR Rules Major Source, Section 112 of the Clean Air Act Not 1 of 28 Source Categories

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

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

(a) one (1) air atomization paint spray booth constructed in 1965, identified as Engine Booth, capable of painting a maximum of thirty (30) units per hour, using dry filters for overspray control, and exhausting through one (1) stack, identified as PTB001;

(b) one (1) air atomization paint spray booth constructed in 1978, identified as Stern Drive Booth, capable of painting a maximum of three (3) units per hour, using dry filters for overspray control, and exhausting through one (1) stack, identified as PTB002;

(c) one (1) air atomization paint spray booth constructed in 1994, identified as Radiator Booth, capable of painting a maximum of ten (10) units per hour, using dry filters for overspray control, and exhausting through one (1) stack, identified as PTB003;

(d) one (1) air atomization paint spray booth constructed in 1970, identified as Diesel Engine Booth, capable of painting a maximum of three (3) units per hour, using dry filters for overspray control, and exhausting through one (1) stack, identified as PTB004;

(e) one (1) air atomization paint spray booth constructed in 1965, identified as Transmission Booth, capable of painting a maximum of twenty (20) units per hour, using dry filters for overspray control, and exhausting through one (1) stack, identified as PTB005;

(f) one (1) air atomization paint spray booth, constructed in 2003, identified as PTB-007, capable of painting a maximum of thirty (30) units per hour, using dry filters for overspray control, and exhausting through one (1) stack, identified as PB007;

(g) thirteen (13) natural gas fired reciprocating internal combustion engines, identified as ACO008 through ACO011, CGN001 through CGN008 and CGN011, each with a rated heat input of 0.725 million British thermal units per hour (MMBtu/hr) and a rated output of 102 horsepower (HP);

(h) two (2) #2 diesel fuel fired reciprocating internal combustion engines, identified as DYN001 and DYN003, each with a rated heat input of 10.5 MMBtu/hr and a rated output of 1500 HP;

(i) one (1) natural gas fired reciprocating internal combustion engine, identified as DYN033, with a rated heat input of 1.75 MMBtu/hr and a rated output of 250 HP;

(j) 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;

(k) 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;

(l) 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;

(m) one (1) #2 diesel fuel fired reciprocating internal combustion engine, identified as DYN056, installed in 2006, with a rated heat input of 3.5 MMBtu/hr and a rated output of 500 HP;

(n) one (1) #2 diesel fuel fired reciprocating internal combustion engine, identified as DYN057, installed in 2006, with a rated heat input of 3.5 MMBtu/hr and a rated output of 500 HP;

(o) two (2) baghouses, identified as DUC051 and DUC052, each with a gas flow rate of greater than 4,000 actual cubic foot per minute, for controlling grinding, machining operations and sand blasting operations with an uncontrolled potential particulate emissions of greater than 25 pounds per day and the following:

(1) one (1) soda blasting unit, approved for construction in 2008, identified as BLA-056, with a maximum capacity of 12.5 lb/hr of blast media, controlled by baghouse DUC-052, exhausting indoors only;

(2) one (1) soda blasting unit, approved for construction in 2008, identified as BLA-057, with a maximum capacity of 12.5 lb/hr of blast media, controlled by baghouse DUC-051, exhausting indoors only;

(p) one (1) soda blasting unit, identified as BLA-037, equipped with a baghouse for particulate control, identified as DUC-068, exhausting inside the building, capacity: 60 units per hour;

(q) one (1) plastic bead abrasive blasting unit, identified as BLA-501, installed in 2006, equipped with a baghouse for particulate control, identified as BLA-501, exhausting inside the building, capacity: 116 pounds of abrasive per hour; and

(r) one (1) plastic bead blast unit, approved for construction in 2008, identified as BLA-073, with a maximum capacity of 108 lb/hr of blast media, controlled by baghouse DUC-073, exhausting indoors only.

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

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

(a) Natural gas-fired combustion sources with heat input equal to or less than ten (10) million Btu per hour:

(1) one (1) natural gas fired boiler, rated at 4.5 MMBtu/hr, constructed in 1993; [326 IAC 6.5-1-2]

(b) twenty-four (24) degreasing units, identified as D271-CLT21, D264-CLT054, G266-CLT056, I261, T264-CLT095, T263-CLT137, G273-CLT017, G274-CLT019, G271-CLT043, D262-CLT080, G264-CLT083, G276-CLT042, T268-CLT0126, and SCT501 through SCT511 constructed after July 1, 1990; [326 IAC 8-3-5]

(c) five (5) degreasing units, identified as G263-CLT038, G272-CLT018, D268-CLT020, D270-PEQ011 and D265-CLT053, constructed after January 1, 1980 and prior to July 1, 1990; [326 IAC 8-3-2]

(d) three (3) baghouses, identified as BLA007, BLA009 and BLA011, each with design outlet grain loading of less than or equal to 0.03 grains per actual cubic foot and a gas flow rate of less than or equal to 4,000 actual cubic foot per minute, for controlling the sand blasting operations; [326 IAC 6.5-1-2]

(e) five (5) baghouses, identified as DUC001, DUC003, DUC015, DUC021 and DUC027 each with design outlet grain loading of less than or equal to 0.03 grains per actual cubic foot and a gas flow rate of less than or equal to 4,000 actual cubic foot per minute, for controlling the grinding, sandblasting and machining operations, including deburring, buffing, polishing and abrasive blasting; [326 IAC 6.5-1-2]

(f) two (2) baghouses (ID Nos. DUC006 and DUC-063), each with a gas flow rate of greater than 4,000 actual cubic foot per minute, for controlling grinding and machining operations with uncontrolled potential particulate emissions of less than 25 pounds per day; [326 IAC 6.5-1-2]

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

(h) one (1) aluminum oxide abrasive blasting unit, identified as BLA-502, installed in 2006, equipped with a baghouse for particulate control, identified as DUC-068, exhausting inside the building, capacity: 315 pounds of abrasive per hour; [326 IAC 6.5-1-2]

(i) three (3) armex empire blasting units, identified as BLA-503, BLA-504 and BLA-505, each installed in 2006, each equipped with a baghouse for particulate control, identified as DUC-503, DUC-504 and DUC-068, respectively, exhausting inside the building, capacity: 12.5 pounds of abrasive per hour, each; [326 IAC 6.5-1-2]

(j) two (2) steel shot peener units, identified as BLA-506 and BLA-507, both installed in 2006, each equipped with a baghouse for particulate control, identified as DUC-503 and DUC-504, respectively, exhausting inside the building, capacity: 600 pounds of abrasive per hour, each; and [326 IAC 6.5-1-2]

(k) one (1) air atomization paint spray booth, constructed in 2006, identified as PTB012, capable of painting a maximum of four (4) units per hour, using dry filters for overspray control, and exhausting through one (1) stack, identified as PTB012. [326 IAC 6.5-1-2]

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

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

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

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

SECTION B GENERAL CONDITIONS

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

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

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

(a) This permit, T037-17555-00089, is issued for a fixed term of five (5) years from the issuance date of this permit, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date of this permit.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

in the document are true, accurate, and complete.

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

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

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

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

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

and

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

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

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

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

(2) The compliance status;

(3) Whether compliance was continuous or intermittent;

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

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

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

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

(a) The Permittee shall maintain and implement Preventive Maintenance Plans (PMPs) for the source as described in 326 IAC 1-6-3. At a minimum, the PMPs shall include:

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

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

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

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

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

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

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

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

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

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

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

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

Telephone Number: 1-800-451-6027 (ask for Office of Air Quality, Compliance Section), or
Telephone Number: 317-233-0178 (ask for Compliance Section)
Facsimile Number: 317-233-6865
Southwest Regional Office phone: (812) 380-2305; fax: (812) 380-2304.

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

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

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

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

(A) A description of the emergency;

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

(C) Corrective actions taken.

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

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

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

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

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

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

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

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

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

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

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

(b) If, after issuance of this permit, it is determined that the permit is in nonconformance with an applicable requirement that applied to the source on the date of permit issuance, IDEM, OAQ,

shall immediately take steps to reopen and revise this permit and issue a compliance order to the Permittee to ensure expeditious compliance with the applicable requirement until the permit is reissued. The permit shield shall continue in effect so long as the Permittee is in compliance with the compliance order.

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

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

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

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

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

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

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

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

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

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

(a) All terms and conditions of permits established prior to T037-17555-00089 and issued pursuant to permitting programs approved into the state implementation plan have been either:

(1) incorporated as originally stated,

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

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

(b) Provided that all terms and conditions are accurately reflected in this permit, all previous registrations and permits are superseded by this Part 70 operating permit.

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

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

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

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

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

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

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

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

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

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

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

(1) That this permit contains a material mistake.

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

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

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

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

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

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

Request for renewal shall be submitted to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

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

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

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

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

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

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

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

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

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

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

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

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

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

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

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

met:

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

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

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

(4) The Permittee notifies the:

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

and

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

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

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

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

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

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

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

(3) Any change in emissions; and

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

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

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

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

(a) The Permittee shall pay annual fees to IDEM, OAQ within thirty (30) calendar days of receipt of a billing. Pursuant to 326 IAC 2-7-19(b), if the Permittee does not receive a bill from IDEM, OAQ the applicable fee is due April 1 of each year.

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

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

B.25 Advanced Source Modification Approval [326 IAC 2-7-5(16)][326 IAC 2-7-10.5]

(a) The requirements to obtain a source modification approval under 326 IAC 2-7-10.5 or a permit modification under 326 IAC 2-7-12 are satisfied by this permit for the proposed emission units, control equipment or insignificant activities in Sections A.2 and A.3.

(b) Pursuant to 326 IAC 2-1.1-9 any permit authorizing construction may be revoked if construction of the emission unit has not commenced within eighteen (18) months from the date of issuance of the permit, or if during the construction, work is suspended for a continuous period of one (1) year or more.

B.26 Credible Evidence [326 IAC 2-7-5(3)][326 IAC 2-7-6][62 FR 8314][326 IAC 1-1-6]

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

SECTION C SOURCE OPERATION CONDITIONS

Entire Source

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

C.1 Opacity [326 IAC 5-1]

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

(a) Opacity shall not exceed an average of thirty percent (30%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.

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

C.2 Open Burning [326 IAC 4-1][IC 13-17-9]

The Permittee shall not open burn any material except as provided in 326 IAC 4-1-3, 326 IAC 4-1-4 or 326 IAC 4-1-6. The previous sentence notwithstanding, the Permittee may open burn in accordance with an open burning approval issued by the Commissioner under 326 IAC 4-1-4.1.

C.3 Incineration [326 IAC 4-2][326 IAC 9-1-2]

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

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

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

C.5 Stack Height [326 IAC 1-7]

The Permittee shall comply with the applicable provisions of 326 IAC 1-7 (Stack Height Provisions), for all exhaust stacks through which a potential (before controls) of twenty-five (25) tons per year or more of particulate matter or sulfur dioxide is emitted. The provisions of 326 IAC 1-7-1(3), 326 IAC 1-7-2, 326 IAC 1-7-3(c) and (d), 326 IAC1-7-4, and 326 IAC 1-7-5(a), (b), and (d) are not federally enforceable.

C.6 Asbestos Abatement Projects [326 IAC 14-10][326 IAC 18][40 CFR 61, Subpart M]

(a) Notification requirements apply to each owner or operator. If the combined amount of regulated asbestos containing material (RACM) to be stripped, removed or disturbed is at least 260 linear feet on pipes or 160 square feet on other facility components, or at least thirty-five (35) cubic feet on all facility components, then the notification requirements of 326 IAC 14-10-3 are mandatory. All demolition projects require notification whether or not asbestos is present.

(b) The Permittee shall ensure that a written notification is sent on a form provided by the Commissioner at least ten (10) working days before asbestos stripping or removal work or before demolition begins, per 326 IAC 14-10-3, and shall update such notice as necessary, including, but not limited to the following:

(1) When the amount of affected asbestos containing material increases or decreases by at least twenty percent (20%); or

(2) If there is a change in the following:

(A) Asbestos removal or demolition start date;

(B) Removal or demolition contractor; or

(C) Waste disposal site.

(c) The Permittee shall ensure that the notice is postmarked or delivered according to the guidelines set forth in 326 IAC 14-10-3(2).

(d) The notice to be submitted shall include the information enumerated in 326 IAC 14-10-3(3).

All required notifications shall be submitted to:

Indiana Department of Environmental Management
Asbestos Section, Office of Air Quality
100 North Senate Avenue
MC 61-52 IGCN 1003
Indianapolis, Indiana 46204-2251

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

(e) Procedures for Asbestos Emission Control
The Permittee shall comply with the applicable emission control procedures in 326 IAC 14-10-4 and 40 CFR 61.145(c). Per 326 IAC 14-10-1, emission control requirements are applicable for any removal or disturbance of RACM greater than three (3) linear feet on pipes or three (3) square feet on any other facility components or a total of at least 0.75 cubic feet on all facility components.

(f) Demolition and Renovation
The Permittee shall thoroughly inspect the affected facility or part of the facility where the demolition or renovation will occur for the presence of asbestos pursuant to 40 CFR 61.145(a).

(g) Indiana Accredited Asbestos Inspector
The Permittee shall comply with 326 IAC 14-10-1(a) that requires the owner or operator, prior to a renovation/demolition, to use an Indiana Accredited Asbestos Inspector to thoroughly inspect the affected portion of the facility for the presence of asbestos. The requirement to use an Indiana Accredited Asbestos inspector is not federally enforceable.

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

C.7 Performance Testing [326 IAC 3-6]

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

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

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

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

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

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

Compliance Requirements [326 IAC 2-1.1-11]

C.8 Compliance Requirements [326 IAC 2-1.1-11]

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

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

C.9 Compliance Monitoring [326 IAC 2-7-5(3)][326 IAC 2-7-6(1)]

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

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

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

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

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

C.10 Monitoring Methods [326 IAC 3][40 CFR 60][40 CFR 63]

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

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

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

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

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

C.12 Emergency Reduction Plans [326 IAC 1-5-2][326 IAC 1-5-3]

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

(a) The Permittee prepared and submitted written emergency reduction plans (ERPs) consistent with safe operating procedures on March 31, 2003.

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

C.13 Risk Management Plan [326 IAC 2-7-5(12)][40 CFR 68]

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

C.14 Response to Excursions or Exceedances [326 IAC 2-7-5][326 IAC 2-7-6]

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

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

(1) initial inspection and evaluation;

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

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

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

(1) monitoring results;

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

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

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

(e) The Permittee shall maintain the following records:

(1) monitoring data;

(2) monitor performance data, if applicable; and

(3) corrective actions taken.

C.15 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-7-5][326 IAC 2-7-6]

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

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

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

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

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

C.16 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) Pursuant to 326 IAC 2-6-3(b)(3), starting in 2006 and every three (3) years thereafter, the Permittee shall submit by July 1 an emission statement covering the previous calendar year. The emission statement shall contain, at a minimum, the information specified in 326 IAC 2-6-4(c) and shall meet the following requirements:

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

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

The statement must be submitted to:

Indiana Department of Environmental Management
Technical Support and Modeling Section, Office of Air Quality
100 North Senate Avenue
MC 61-50 IGCN 1003
Indianapolis, Indiana 46204-2251

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

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

C.17 General Record Keeping Requirements [326 IAC 2-7-5(3)][326 IAC 2-7-6]

(a) Records of all required monitoring data, reports and support information required by this permit shall be retained for a period of at least five (5) years from the date of monitoring sample,

measurement, report, or application. These records shall be physically present or electronically accessible at the source location for a minimum of three (3) years. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.

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

C.18 General Reporting Requirements [326 IAC 2-7-5(3)(C)][326 IAC 2-1.1-11]

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

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

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

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

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

(e) Reporting periods are based on calendar years, unless otherwise specified in this permit. For the purpose of this permit “calendar year” means the twelve (12) month period from January 1 to December 31 inclusive.

Stratospheric Ozone Protection

C.19 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 EMISSIONS UNIT OPERATION CONDITIONS

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

(a) one (1) air atomization paint spray booth constructed in 1965, identified as Engine Booth, capable of painting a maximum of thirty (30) units per hour, using dry filters for overspray control, and exhausting through one (1) stack, identified as PTB001;

(b) one (1) air atomization paint spray booth constructed in 1978, identified as Stern Drive Booth, capable of painting a maximum of three (3) units per hour, using dry filters for overspray control, and exhausting through one (1) stack, identified as PTB002;

(c) one (1) air atomization paint spray booth constructed in 1994, identified as Radiator Booth, capable of painting a maximum of ten (10) units per hour, using dry filters for overspray control, and exhausting through one (1) stack, identified as PTB003;

(d) one (1) air atomization paint spray booth constructed in 1970, identified as Diesel Engine Booth, capable of painting a maximum of three (3) units per hour, using dry filters for overspray control, and exhausting through one (1) stack, identified as PTB004;

(e) one (1) air atomization paint spray booth constructed in 1965, identified as Transmission Booth, capable of painting a maximum of twenty (20) units per hour, using dry filters for overspray control, and exhausting through one (1) stack, identified as PTB005;

(f) one (1) air atomization paint spray booth, constructed in 2003, identified as PTB-007, capable of painting a maximum of thirty (30) units per hour, using dry filters for overspray control, and exhausting through one (1) stack, identified as PTB007;

Insignificant Activity:

(k) one (1) air atomization paint spray booth, constructed in 2006, identified as PTB012, capable of painting a maximum of four (4) units per hour, using dry filters for overspray control, and exhausting through one (1) stack, identified as PTB012. [326 IAC 6.5-1-2]

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

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

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

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

D.1.2 Volatile Organic Compound (VOC) Limitations, Clean-up Requirements [326 IAC 8-2-9]

Pursuant to 326 IAC 8-2-9 (f), all solvents sprayed from the application equipment of the Radiator Booth during cleanup or color changes shall be directed into containers. Said containers shall be closed as soon as the solvent spraying is complete. In addition, all waste solvent shall be disposed of in such a manner that minimizes evaporation.

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

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

(b) Any change or modification to booths PTB-007 and PTB012 that may increase actual VOC emissions from either unit to 15 lbs/day or more must be approved by the Office of Air Quality (OAQ) before such change can occur.

D.1.4 Particulate Matter (PM) [326 IAC 6.5-1-2]

Pursuant to 326 IAC 6.5-1-2(a)(Dubois County Particulate Limitations), particulate matter (PM) emissions from the seven (7) paint booths (Engine, Stern Drive, Radiator, Diesel Engine, Transmission Booths and PTB-007) shall be limited to 0.03 grains per dry standard cubic foot of exhaust air as follows:

Process/Facility	Exhaust Flow Rate (dscfm)	326 IAC 6.5-1-2 PM Allowable Emissions (lb/hr)
Engine Booth	18,000	4.63
Stern Drive Booth	9,600	2.47
Radiator Booth	5,300	1.36
Diesel Engine Booth	18,000	4.63
Transmission Booth	18,000	4.63
PTB-007	1,500	0.386
PTB012	1,500	0.386

D.1.5 NESHAP Minor Limit [40 CFR Part 63, Subpart A][40 CFR Part 63, Subpart MMMM] [326 IAC 20-1]

The usage of total combination of HAPs and any single HAP at the surface coating processes shall be limited to less than 22 and 9 tons per twelve (12) consecutive month period, respectively. Compliance with these limits shall limit source-wide emissions of total combination of HAPs and any single HAP to less than 25 and 10 tons per twelve (12) consecutive month period, respectively.

Compliance Determination Requirements

D.1.6 Volatile Organic Compounds (VOC) and Hazardous Air Pollutants (HAPs)

Compliance with the VOC and HAP content and usage limitations contained in Conditions D.1.1, D.1.2 and D.1.5 shall be determined pursuant to 326 IAC 8-1-4(a)(3) and 326 IAC 8-1-2(a) by preparing or obtaining from the manufacturer the copies of the "as supplied" and "as applied" VOC data sheets. IDEM, OAQ reserves the authority to determine compliance using Method 24 in conjunction with the analytical procedures specified in 326 IAC 8-1-4.

D.1.7 Particulate Control

In order to comply with D.1.4, the dry filters for particulate control shall be in operation and control emissions from the seven (7) paint booths at all times that the booths are in operation.

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

D.1.8 Monitoring

(a) Daily inspections shall be performed to verify the placement, integrity and particle loading of the filters. To monitor the performance of the dry filters, weekly observations shall be made of the overspray from the surface coating booth stacks (PTB001 - PTB005, PTB007 and PTB012) while one or more of the booths are in operation. If a condition exists which should result in a response step, the Permittee shall take reasonable response steps in accordance with Section

C - Response to Excursions or Exceedances. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a deviation from this permit.

(b) Monthly inspections shall be performed of the coating emissions from the stack and the presence of overspray on the rooftops and the nearby ground. When there is a noticeable change in overspray emissions, or when evidence of overspray emissions is observed, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a deviation from this permit.

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

D.1.9 Record Keeping Requirements

(a) To document compliance with Conditions D.1.1, D.1.2 and D.1.5, the Permittee shall maintain records in accordance with (1) through (5) below. Records maintained for (1) through (5) shall be taken monthly and shall be complete and sufficient to establish compliance with the VOC and HAP usage limits and/or the VOC and HAP emission limits established in Conditions D.1.1 and D.1.2. Records necessary to demonstrate compliance shall be available within 30 days of the end of each compliance period.

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

(2) The amount of coating material and solvent less water used on monthly basis.

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

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

(3) The cleanup solvent usage for each month.

(4) The total VOC and HAP usage for each month.

(5) The weight of VOCs and HAPs emitted for each compliance period.

(b) To document compliance with Condition D.1.3, the Permittee shall maintain records of the VOC usage.

(c) To document compliance with Condition D.1.9, the Permittee shall maintain a log of weekly overspray observations, daily and monthly inspections.

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

D.1.10 Reporting Requirements

A quarterly summary of the information to document compliance with Condition D.1.5 shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does require the certification by an “authorized individual” as defined by 326 IAC 2-1.1-1(1).

SECTION D.2 EMISSIONS UNIT OPERATION CONDITIONS

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

(g) thirteen (13) natural gas fired reciprocating internal combustion engines, identified as ACO008 through ACO011, CGN001 through CGN008 and CGN011, each with a rated heat input of 0.725 million British thermal units per hour (MMBtu/hr) and a rated output of 102 horsepower (HP);

(h) two (2) #2 diesel fuel fired reciprocating internal combustion engines, identified as DYN001 and DYN003, each with a rated heat input of 10.5 MMBtu/hr and a rated output of 1500 HP;

(i) one (1) natural gas fired reciprocating internal combustion engine, identified as DYN033, with a rated heat input of 1.75 MMBtu/hr and a rated output of 250 HP;

(j) 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;

(k) 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;

(l) 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;

(m) one (1) #2 diesel fuel fired reciprocating internal combustion engine, identified as DYN056, installed in 2006, with a rated heat input of 3.5 MMBtu/hr and a rated output of 500 HP;

(n) one (1) #2 diesel fuel fired reciprocating internal combustion engine, identified as DYN057, installed in 2006, with a rated heat input of 3.5 MMBtu/hr and a rated output of 500 HP;

Insignificant Activities:

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

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

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

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

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

(a) Natural gas usages for all reciprocating internal combustion engines are limited at 119.7 million standard cubic feet per 12 consecutive month period with compliance determined at the end of each month.

(b) #2 diesel fuel usages for all reciprocating internal combustion engines are limited at 100,000 gallons per 12 consecutive month period with compliance determined at the end of each month.

(c) Gasoline usages for all reciprocating internal combustion engines are limited at 10,000 gallons per 12 consecutive month period with compliance determined at the end of each month.

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

Compliance Determination Requirements

D.2.2 Fuel Usages

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

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

D.2.3 Record Keeping Requirements

(a) To document compliance with Condition D.2.1, the Permittee shall maintain records of the monthly natural gas, #2 diesel fuel and gasoline usages by all reciprocating internal combustion engines at the source.

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

D.2.4 Reporting Requirements

A quarterly summary of the information to document compliance with Condition D.2.1 shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

SECTION D.3 EMISSIONS UNIT OPERATION CONDITIONS

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

(o) two (2) baghouses, identified as DUC051 and DUC052, each with a gas flow rate of greater than 4,000 actual cubic foot per minute, for controlling grinding, machining operations and sand blasting operations with an uncontrolled potential particulate emissions of greater than 25 pounds per day and the following:

(1) one (1) soda blasting unit, approved for construction in 2008, identified as BLA-056, with a maximum capacity of 12.5 lb/hr of blast media, controlled by baghouse DUC-052, exhausting indoors only;

(2) one (1) soda blasting unit, approved for construction in 2008, identified as BLA-057, with a maximum capacity of 12.5 lb/hr of blast media, controlled by baghouse DUC-051, exhausting indoors only;

(p) one (1) soda blasting unit, identified as BLA-037, equipped with a baghouse for particulate control, identified as DUC-068, exhausting inside the building, capacity: 60 units per hour;

(q) one (1) plastic bead abrasive blasting unit, identified as BLA-501, installed in 2006, equipped with a baghouse for particulate control, identified as BLA-501, exhausting inside the building, capacity: 116 pounds of abrasive per hour; and

(r) one (1) plastic bead blast unit, approved for construction in 2008, identified as BLA-073, with a maximum capacity of 108 lb/hr of blast media, controlled by baghouse DUC-073, exhausting indoors only.

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

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

D.3.1 Particulate [326 IAC 6.5-1-2]

(a) Pursuant to 326 IAC 6.5-1-2, particulate matter emissions from the grinding and machining operations controlled by two (2) baghouses, identified as DUC051and DUC052, shall each not exceed 0.03 grains per dry standard cubic foot.

(b) Pursuant to 326 IAC 6.5-1-2, particulate matter emissions from the one (1) soda blasting unit, identified as BLA-037, shall not exceed 0.03 grains per dry standard cubic foot.

(c) Pursuant to 326 IAC 6.5-1-2, particulate matter emissions from the one (1) plastic bead abrasive blasting unit, identified as BLA 501, shall not exceed 0.03 grains per dry standard cubic foot.

(d) Pursuant to 326 IAC 6.5-1-2, particulate matter emissions from the one (1) plastic bead abrasive blasting unit, identified as BLA-073, shall not exceed 0.03 grains per dry standard cubic foot.

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

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

Compliance Determination Requirement

D.3.3 Particulate Control

In order to comply with Condition D.3.1, the baghouses for particulate control shall be in operation and control emissions from one (1) plastic bead abrasive blasting unit (BLA-073), one (1) soda blasting unit (BLA-037), and one (1) plastic bead abrasive blasting unit, identified as BLA-501 at all times that the units are in operation.

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

D.3.4 Broken or Failed Bag Detection

(a) For a single compartment baghouse controlling emissions from a process operated continuously, a failed unit and the associated process shall be shut down immediately until the failed unit has 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).

(b) For a single compartment baghouse controlling emissions from a batch process, the feed to the process shall be shut down immediately until the failed unit has been repaired or replaced. The emissions unit shall be shut down no later than the completion of the processing of the material in the line. 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).

Bag failure can be indicated by a significant drop in the baghouse's pressure reading with abnormal visible emissions, by an opacity violation, or by other means such as gas temperature, flow rate, air infiltration, leaks, dust traces or triboflows.

SECTION D.4 EMISSIONS UNIT OPERATION CONDITIONS

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

Insignificant Activities:

(a) Natural gas-fired combustion sources with heat input equal to or less than ten (10) million Btu per hour:

(1) one (1) natural gas fired boiler, rated at 4.5 MMBtu/hr, constructed in 1993; [326 IAC 6-2-4]

(b) twenty-four (24) degreasing units, identified as D271-CLT21, D264-CLT054, G266-CLT056, I261, T264-CLT095, T263-CLT137, G273-CLT017, G274-CLT019, G271-CLT043, D262-CLT080, G264-CLT083, G276-CLT042, T268-CLT0126 and SCT501 through SCT511, constructed after July 1, 1990; [326 IAC 8-3-5]

(c) five (5) degreasing units, identified as G263-CLT038, G272-CLT018, D268-CLT020, D270-PEQ011 and D265-CLT053, constructed after January 1, 1980 and prior to July 1, 1990; [326 IAC 8-3-2]

(d) three (3) baghouses, identified as BLA007, BLA009 and BLA011, each with design outlet grain loading of less than or equal to 0.03 grains per actual cubic foot and a gas flow rate of less than or equal to 4,000 actual cubic foot per minute, for controlling the sand blasting operations; [326 IAC 6.5-1-2]

(e) five (5) baghouses, identified as DUC001, DUC003, DUC015, DUC021 and DUC027 each with design outlet grain loading of less than or equal to 0.03 grains per actual cubic foot and a gas flow rate of less than or equal to 4,000 actual cubic foot per minute, for controlling the grinding, sandblasting and machining operations, including deburring, buffing, polishing and abrasive blasting; [326 IAC 6.5-1-2]

(f) two (2) baghouses (ID Nos. DUC006 and DUC-063), each with a gas flow rate of greater than 4,000 actual cubic foot per minute, for controlling grinding and machining operations with uncontrolled potential particulate emissions of less than 25 pounds per day; [326 IAC 6.5-1-2]

(h) one (1) aluminum oxide abrasive blasting unit, identified as BLA-502, installed in 2006, equipped with a baghouse for particulate control, identified as DUC-068, exhausting inside the building, capacity: 315 pounds of abrasive per hour; [326 IAC 6.5-1-2]

(i) three (3) armex empire blasting units, identified as BLA-503, BLA-504 and BLA-505, each installed in 2006, each equipped with a baghouse for particulate control, identified as DUC-503, DUC-504 and DUC-068, respectively, exhausting inside the building, capacity: 12.5 pounds of abrasive per hour, each; [326 IAC 6.5-1-2]

(j) two (2) steel shot peener units, identified as BLA-506 and BLA-507, both installed in 2006, each equipped with a baghouse for particulate control, identified as DUC-503 and DUC-504, respectively, exhausting inside the building, capacity: 600 pounds of abrasive per hour, each; and [326 IAC 6.5-1-2]

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

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

D.4.1 Particulate Matter (PM) [326 IAC 6.5-1-2(b)(3)]

Pursuant to 326 IAC 6.5-1-2 (b)(3) (Particulate Limitations - Dubois County) the PM from the 4.5 MMBtu per hour heat input boiler shall be limited to 0.01 grains per dry standard cubic foot of exhaust air, which is equivalent to 0.86 pounds per hour at an exhaust flow rate of 10,000 dry standard cubic foot.

D.4.2 Particulate Matter (PM) [326 IAC 6.5-1-2(a)]

Pursuant to 326 IAC 6.5-1-2(a)(Dubois County Particulate Limitations), particulate matter (PM) emissions from the sand blasting operations controlled by five (5) baghouses, identified as BLA007, BLA009 and BLA011, and grinding and machining operations controlled by twelve baghouses, identified as DUC001, DUC003, DUC006, DUC015, DUC021, DUC027, DUC052, DUC045, BLA059, DUC503, DUC504 and DUC-068 shall each be limited to 0.03 grains per dry standard cubic foot of exhaust air, which is equivalent to the following rates:

ID #	Exhaust Flow Rate (cfm)	Emission Limit (lb/hr)	ID #	Exhaust Flow Rate (cfm)	Emission Limit (lb/hr)
BLA007	420	0.11	DUC021	2,000	0.51
BLA009	1,250	0.32	DUC027	3,000	0.77
BLA011	420	0.11	DUC045	15,000	3.86
BLA059	900	0.23	DUC063	12,000	3.08
DUC001	4,000	1.03	DUC068	13,800	3.55
DUC003	1,200	0.31	DUC503	5,000	1.29
DUC006	18,000	4.63	DUC504	5,000	1.29
DUC015	2,200	0.57	---	---	---

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

Pursuant to 326 IAC 8-3-2 (Cold Cleaner Operations), for cold cleaners G263-CLT038, G272-CLT018, D268-CLT020, D270-PEQ011, D265-CLT053 and SCT501 through SCT511 constructed after January 1, 1980, the Permittee shall:

(a) Equip the cleaner with a cover;

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

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

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

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

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

D.4.4 Volatile Organic Compounds (VOC) [326 IAC 8-3-5]

(a) Pursuant to 326 IAC 8-3-5(a) (Cold Cleaner Degreaser Operation and Control), for cold cleaners D271-CLT21, D264-CLT054, G266-CLT056, I261, T264-CLT095, T263-CLT137, G273-CLT017, G274-CLT019, G271-CLT043, D262-CLT080, G264-CLT083, G276-CLT042, T268-CLT0126 and SCT501 through SCT511 without remote solvent reservoirs constructed after July 1, 1990, the Permittee shall ensure that the following control equipment requirements are met:

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

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

(B) The solvent is agitated; or

(C) The solvent is heated.

(2) Equip the degreaser with a facility for draining cleaned articles. If the solvent volatility is greater than four and three-tenths (4.3) kiloPascals (thirty-two (32) millimeters of mercury or six-tenths (0.6) pounds per square inch) measured at thirty-eight degrees Celsius (38OC) (one hundred degrees Fahrenheit (100OF)), 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 (38OC) (one hundred degrees Fahrenheit (100OF)), or if the solvent is heated to a temperature greater than forty-eight and nine-tenths degrees Celsius (48.9OC) (one hundred twenty degrees Fahrenheit (120OF)):

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

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

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

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

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

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

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

Compliance Determination Requirement

D.4.5 Particulate Control

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

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
PART 70 OPERATING PERMIT
CERTIFICATION

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

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

Please check what document is being certified:

☐ Annual Compliance Certification Letter

☐ Test Result (specify)

☐ Report (specify)

☐ Notification (specify)

☐ Affidavit (specify)

☐ Other (specify)

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

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY

COMPLIANCE BRANCH
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251
Phone: 317-233-0178
Fax: 317-233-6865

PART 70 OPERATING PERMIT
EMERGENCY OCCURRENCE REPORT

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

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

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

- The Permittee must notify the Office of Air Quality (OAQ), within four (**4**) business hours (1-800-451-6027 or 317-233-0178, ask for Compliance Section); and
- The Permittee must submit notice in writing or by facsimile within two (**2**) working days (Facsimile Number: 317-233-6865), and follow the other requirements of 326 IAC 2-7-16.

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

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

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

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

Form Completed by:_____

Title / Position: _____

Date:_____

Phone: _____

A certification is not required for this report.

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

Part 70 Quarterly Report

Source Name: Jasper Engine Exchange, Inc.
Source Address: 815 Wernsing Road, Jasper, Indiana 47547
Mailing Address: P.O. Box 650, Jasper, Indiana 47547-0650
Part 70 Permit No.: T037-17555-00089
Facility: Reciprocating Internal Combustion Engines
Parameter: Fuel Usages
Limit:
(a) natural gas usages for all reciprocating internal combustion engines are limited at 119.7 million cubic feet (MMCF) per 12 consecutive month period, with compliance determined at the end of each month;
(b) #2 diesel fuel usages for all reciprocating internal combustion engines are limited at 100,000 gallons per 12 consecutive month period, with compliance determined at the end of each month; and
(c) gasoline usages for all reciprocating internal combustion engines are limited at 10,000 gallons per 12 consecutive month period, with compliance determined at the end of each month.

QUARTER : _____ YEAR: _____

	Column 1	Column 2	Column 1 + 2
	This Month	Previous 11 Months	12 Month Total
Month-1 / Natural Gas (MMCF)			
Month-1 / #2 Diesel Fuel (Gallons)			
Month-1 / Gasoline (Gallons)			
Month-2 / Natural Gas (MMCF)			
Month-2 / #2 Diesel Fuel (Gallons)			
Month-2 / Gasoline (Gallons)			
Month-3 / Natural Gas (MMCF)			
Month-3 / #2 Diesel Fuel (Gallons)			
Month-3 / Gasoline (Gallons)			

☐ No deviation occurred in this quarter.

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

Submitted by: _____

Title / Position: _____

Signature: _____

Date: _____

Phone: _____

Attach a signed certification to complete this report.

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

Part 70 Quarterly Report

Source Name: Jasper Engine Exchange, Inc.
Source Address: 815 Wernsing Road, Jasper, Indiana 47547
Mailing Address: P.O. Box 650, Jasper, Indiana 47547-0650
Part 70 Permit No.: T037-17555-00089
Facility: Surface Coating Operations
Parameter: Hazardous Air Pollutants (HAPs)
Limit: Less than 9 and 22 tons per 12 consecutive month period for any single HAP and total HAP, respectively, with compliance determined at the end of each month.

QUARTER: _____ YEAR: _____

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

☐ No deviation occurred in this quarter.

☐ Deviation/s occurred in this quarter.

Deviation has been reported on: _____

Submitted by: _____

Title / Position: _____

Signature: _____

Date: _____

Phone: _____

Attach a signed certification to complete this report.

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

PART 70 OPERATING PERMIT
QUARTERLY DEVIATION AND COMPLIANCE MONITORING REPORT

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

Months: _____ to _____ Year: _____

This report shall be submitted quarterly based on a calendar year. Any deviation from the requirements, the date(s) of each deviation, the probable cause of the deviation, and the response steps taken must be reported. A deviation required to be reported pursuant to an applicable requirement that exists independent of the permit, shall be reported according to the schedule stated in the applicable requirement and does not need to be included in this report. Additional pages may be attached if necessary. If no deviations occurred, please specify in the box marked "No deviations occurred this reporting period".

☐ NO DEVIATIONS OCCURRED THIS REPORTING PERIOD.

☐ THE FOLLOWING DEVIATIONS OCCURRED THIS REPORTING PERIOD

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

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

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

Form Completed by:_____

Title / Position: _____

Date:_____

Phone: _____

Attach a signed certification to complete this report.

Indiana Department of Environmental Management
Office of Air Quality

Technical Support Document (TSD) for a Part 70 Minor Source Modification and Significant Permit Modification

Source Description and Location

Source Name:	Jasper Engine Exchange, Inc.
Source Location:	815 Wernsing Road, Jasper, Indiana 47547
County:	Dubois
SIC Code:	3714, 3519, 7537 and 7539
Operation Permit Renewal No.:	T 037-17555-00089
Operation Permit Renewal Issuance Date:	April 1, 2004
Minor Source Modification No.:	037-25481-00089
Significant Permit Modification No.:	037-26007-00089
Permit Reviewer:	David J. Matousek

Existing Approvals

The source was issued Part 70 Operating Permit Renewal No. T 037-17555-00089 on April 1, 2004. The source has since received the following approvals:

(a) First Significant Permit Modification No. 037-15567-00089, issued on February 23, 2005;

(b) Second Significant Permit Modification No. 037-19033-00089, issued on March 15, 2005;

(c) First Minor Source Modification No. 037-22015-00089, issued on January 26, 2006; and

(d) Third Significant Permit Modification No. 037-22439-00089, issued on March 23, 2006.

County Attainment Status

The source is located Dubois County.

Pollutant	Designation
SO_2	Better than national standards.
CO	Unclassifiable or attainment effective November 15, 1990.
O_3	Unclassifiable or attainment effective June 15, 2004, for the 8-hour standard.[1]
PM_{10}	Unclassifiable effective November 15, 1990.
NO_2	Cannot be classified or better than national standards.
Pb	Not designated.

[1]Unclassifiable or attainment effective October 18, 2000, for the 1-hour ozone standard which was revoked effective June 15, 2005.
Basic nonattainment designation effective federally April 5, 2005, for PM2.5.

(Air Pollution Control Board; 326 IAC 1-4-20; filed Dec 26, 2007, 1:43 p.m.: 20080123-IR-326070308FRA)

(a) Ozone Standards

(1) On October 25, 2006, the Indiana Air Pollution Control Board finalized a rule revision to 326 IAC 1-4-1 revoking the one-hour ozone standard in Indiana.

(2) On September 6, 2007, the Indiana Air Pollution Control Board finalized a temporary emergency rule to re-designate Allen, Clark, Elkhart, Floyd, LaPorte, St. Joseph as attainment for the 8-hour ozone standard.

(3) On November 9, 2007, the Indiana Air Pollution Control Board finalized a temporary emergency rule to re-designate Boone, Clark, Elkhart, Floyd, LaPorte, Hamilton, Hancock, Hendricks, Johnson, Madison, Marion, Morgan, Shelby, and St. Joseph as attainment for the 8-hour ozone standard.

(4) Volatile organic compounds (VOC) and Nitrogen Oxides (NOx) are regulated under the Clean Air Act (CAA) for the purposes of attaining and maintaining the National Ambient Air Quality Standards (NAAQS) for ozone. Therefore, VOC and NOx emissions are considered when evaluating the rule applicability relating to ozone. Dubois County has been designated as attainment or unclassifiable for ozone. Therefore, VOC and NOx emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

(b) PM2.5
Dubois County has been classified as nonattainment for PM2.5 in 70 FR 943 dated January 5, 2005. Until U.S. EPA adopts specific New Source Review rules for PM2.5 emissions, it has directed states to regulate PM10 emissions as a surrogate for PM2.5 emissions pursuant to the requirements of Nonattainment New Source Review, 326 IAC 2-1.1-5.

(c) Other Criteria Pollutants
Dubois County has been classified as attainment or unclassifiable in Indiana for all other criteria pollutants. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

(d) Fugitive Emissions
Since this type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-2 or 326 IAC 2-3, fugitive emissions are not counted toward the determination of PSD and Emission Offset applicability.

Source Status

The table below summarizes the potential to emit of the entire source, prior to the proposed modification, after consideration of all enforceable limits established in the effective permits:

Pollutant	**Emissions** (ton/yr)
PM	21.01
PM_{10}	21.01
SO_2	2.20
VOC	238.29
CO	51.00
NO_X	248.90

(a) This existing source is not a major stationary source, under PSD (326 IAC 2-2), because no regulated pollutant is emitted at a rate of 250 tons per year or more, and it is not one of the twenty-eight (28) listed source categories, as specified in 326 IAC 2-2-1(gg)(1).

(b) This existing source is not a major stationary source under Emission Offset (326 IAC 2-3) because no nonattainment regulated pollutant is emitted at a rate of 100 tons per year or more.

(c) These emissions are based upon Part 70 Operating Permit Renewal No. T037-17555-00089, as modified by Minor Source Modification No. 037-22015-00089.

The table below summarizes the potential to emit HAPs for the entire source, prior to the proposed modification, after consideration of all enforceable limits established in the effective permits:

HAPs	**Potential To Emit** (ton/yr)
Single HAP	Greater Than 10.0
Total	**Greater Than 25.0**

This existing source is a major source of HAPs, as defined in 40 CFR 63.41, because HAP emissions are greater than ten (10) tons per year for a single HAP and greater than twenty-five (25) tons per year for a combination of HAPs. Therefore, this source is a major source under Section 112 of the Clean Air Act (CAA).

Actual Emissions

The following table shows the actual emissions from the source. This information reflects the 2002 OAQ emission data.

Pollutant	**Actual Emissions** (ton/yr)
PM	1.0
PM_{10}	1.0
SO_2	0.0
VOC	36.0
CO	8.0
NO_X	55.0
HAP	Not Reported
Total HAPs	Not Reported

Description of Proposed Modification

The Office of Air Quality (OAQ) has reviewed a modification application, submitted by Jasper Engine Exchange, Inc. on October 30, 2007, relating to the correction of emission unit descriptive information, the addition of one (1) plastic bead blast unit, two (2) abrasive blast units and the replacement of baghouse DUC-029 with baghouse DUC-063. Also, the facility wishes to relocate several abrasive blasting operations and change the baghouses controlling the emissions of the relocated units.

The Permittee states the replacement of baghouse DUC-029 with DUC-063 is due to the age of DUC-029. DUC-029 is approximately 15 to 20 years old. DUC-063 is newer, larger in capacity and currently on-site but not in use.

The relocations are requested because the facility wishes to better utilize production floor space. This relocation requires some emission units to be controlled by different control devices. The Permittee states the relocation will not result in an increase in individual emission unit throughput and is not the result of problems in meeting current particulate matter emission limits.

The following is a list of the proposed emission units and pollution control devices:

(a) One (1) plastic bead blast unit, approved for construction in 2008, identified as BLA-073, with a maximum capacity of 108 lb/hr of blast media, controlled by baghouse DUC-073, exhausting indoors only.

(b) One (1) soda blasting unit, approved for construction in 2008, identified as BLA-056, with a maximum capacity of 12.5 lb/hr of blast media, controlled by baghouse DUC-052, exhausting indoors only.

(c) One (1) soda blasting unit, approved for construction in 2008, identified as BLA-057, with a maximum capacity of 12.5 lb/hr of blast media, controlled by baghouse DUC-051, exhausting indoors only.

(d) One (1) baghouse, approved for construction in 2008, identified as DUC-063, with a maximum capacity of 12,000 ACFM, a capture efficiency of 100%, a control efficiency of 99.9%, and a grain loading of 0.0001 gr/dscf. This unit will replace DUC-029 which is listed in the existing Part 70 permit under A.2(f). It exhausts indoors only.

The following is a list of proposed descriptive information changes to existing emission units and pollution control devices:

(a) The emission unit identification number for baghouse DUC-505 has been updated to DUC-068. This is a correction to descriptive information only. No physical changes are associated with the new control unit identification number.

(b) The emission unit identification number for baghouse DUC-002 has been updated to DUC-003. This is a descriptive information change only. No physical changes are associated with the new control unit identification number.

(c) The descriptive information for the soda blasting unit identified as BLA-037, controlled by baghouse BLA-037, is incorrect. Currently, this unit is controlled by baghouse DUC-505. In addition, the applicant wishes to redirect emissions from this unit to baghouse DUC-068. The Permittee, as part of this application, stated that the change in emission control is not due to baghouse loading restrictions or problems in meeting emission limitations. The relocation is the result of moving the emission unit to better manage production floor space. No additional throughput is anticipated due to the change in use of production floor space. The emissions and emission limitations for DUC-068, in the current permit, are based on outlet grain loading and volumetric air flow rate. No change in emissions will result due this modification.

(d) The sand blasting operations currently controlled by baghouse BLA-017, referenced in Section A.3(d) of the current permit, will now be controlled by baghouse DUC-052. This relocation is also due to a change in the use of floor space. The emissions and emission limitations for DUC-052, in the current permit, are based on outlet grain loading and volumetric air flow rate. No change in emissions will result due to this modification.

(e) The sand blasting operation controlled by baghouse BLA-018, referenced in Section A.3(d) of the current permit, will now be controlled by baghouse DUC-003, formerly baghouse DUC-002. The emissions and emission limitations for DUC-002 are based on outlet grain loading and volumetric air flow rate. No change in emissions will result due this modification.

(f) The abrasive blasting operations controlled by baghouse DUC-013, referenced in Section A.3(h) of the current permit, will now be controlled by baghouse DUC-068. The emissions and emission limitations for DUC-068, in the current permit, are based on outlet grain loading and volumetric air flow rate. No change in emissions will result due this modification.

(g) All references to "when exhausting to the atmosphere" have been removed from the Section D.3 Conditions. When the initial Part 70 permit was issued in 1998, emissions from some units listed in D.3 were capable of being switched to vent from inside to outside the facility. Jasper Engine Exchange, Inc. later removed all ducting that allowed Section D.3 units to vent outdoors. The ducting was removed to allow the work space to be air conditioned. Since these units are no longer capable of venting to the outdoors, the visible emission notations and the associated record keeping requirements are no longer required.

Enforcement Issues

There are no pending enforcement actions.

Stack Summary

There are no new stacks associated with this modification. All units will vent to the indoors.

Emission Calculations

See Appendix A of this Technical Support Document for detailed emission calculations.

Permit Level Determination – Part 70

Pursuant to 326 IAC 2-1.1-1(16), Potential to Emit is defined as "the maximum capacity of a stationary source or emission unit to emit any air pollutant under its physical and operational design. Any physical or operational limitation on the capacity of a source to emit an air pollutant, including air pollution control equipment and restrictions on hours of operation or type or amount of material combusted, stored, or processed shall be treated as part of its design if the limitation is enforceable by the U. S. EPA, IDEM, or the appropriate local air pollution control agency."

The following table is used to determine the appropriate permit level under 326 IAC 2-7-10.5. This table reflects the PTE before controls. Control equipment is not considered federally enforceable until it has been required in a federally enforceable permit.

PTE Before Controls of the Modification	
Pollutant	**Potential To Emit** (ton/yr)
PM	21.03
PM_{10}	14.72
SO_2	0.00
VOC	0.00
CO	0.00
NO_X	0.00

Baghouse DUC-063 replaces DUC-029, which controls emissions from an insignificant activity listed as grinding and machining operations with uncontrolled potential particulate emissions of less than 25 pounds per day. The emission units controlled by the proposed baghouse DUC-063 have not changed. Since the potential to emit of the emissions units has not changed, the revision is not significant and will be considered a descriptive information change. Emissions calculations based on grain loading are provided in Appendix A for both DUC-029 and its replacement DUC-063. Emissions from the replacement baghouse are not shown in the above table for Part 70 permit level determination.

This source modification is subject to 326 IAC 2-7-10.5(d)(3)(A), because the potential to emit of PM and PM10 are greater than five (5) tons per year but less than twenty-five (25) tons per year. Additionally, the modification will be incorporated into the Part 70 Operating Permit through a significant permit modification issued pursuant to 326 IAC 2-7-12(d)(1), because it requires a case by case limit determination and significant changes to record keeping and reporting requirements.

Permit Level Determination – PSD or Nonattainment NSR

The table below summarizes the potential to emit, reflecting all limits, of the emission units. Any control equipment is considered federally enforceable only after issuance of this Part 70 Minor Source Modification and Significant Source Modification, and only to the extent that the effect of the control equipment is made practically enforceable in the permit.

	Potential to Emit (ton/yr)					
Process / Emission Unit	**PM**	**PM_{10}**	**SO_2**	**VOC**	**CO**	**NO_X**
BLA-056	0.00[(a)]	0.00[(a)]	0.00	0.00	0.00	0.00
BLA-057	0.00[(a)]	0.00[(a)]	0.00	0.00	0.00	0.00
BLA-073	0.02	0.01	0.00	0.00	0.00	0.00
Total for Modification	0.02	0.01	0.00	0.00	0.00	0.00
Total for Source After This Modification	21.03	21.02	2.20	238.29	51.00	248.90
Nonattainment NSR Major Source Thresholds	---	100	---	---	---	---
PSD Major Source Thresholds	250	---	250	250	250	250
(a) These emissions are shown as zero due to significant figures.						

This modification to an existing minor stationary source is not major because the emissions increase is less than the PSD Major Source Thresholds. Therefore, pursuant to 326 IAC 2-2, the PSD requirements do not apply.

This modification to an existing minor stationary source is not major because the emissions increase is less than the Nonattainment NSR major source thresholds. Therefore, pursuant to 326 IAC 2-1.1-5, the Nonattainment NSR requirements do not apply.

Dubois County has been designated as nonattainment for $PM_{2.5}$ in 70 FR 943 dated January 5, 2005. According to the April 5, 2005 EPA memo titled "Implementation of New Source Review Requirements in $PM_{2.5}$ Nonattainment Areas" authored by Steve Page, Director of OAQPS, until EPA promulgates the $PM_{2.5}$ major NSR regulations, states should assume that a major stationary source's PM_{10} emissions represent $PM_{2.5}$ emissions. IDEM will use the PM_{10} nonattainment major NSR program as a surrogate to address the requirements of nonattainment major NSR for the $PM_{2.5}$ NAAQS. A major source in a nonattainment area is a source that emits or has the potential to emit one hundred (100) tons per year of any nonattainment regulated pollutant. Jasper Engine Exchange has a limited potential to emit of PM_{10} below one hundred (100) tons per year. Therefore, assuming that PM_{10} emissions represent $PM_{2.5}$ emissions, 326 IAC 2-1.1-5 does not apply for $PM_{2.5}$.

Federal Rule Applicability Determination

The following federal rules are applicable to the source due to this modification:

(a) Pursuant to 40 CFR 64.2, Compliance Assurance Monitoring (CAM) is applicable to new or modified emission units that involve a pollutant-specific emission unit and meet the following criteria:

(1) has a potential to emit before controls equal to or greater than the Part 70 major source threshold for the pollutant involved;

(2) is subject to an emission limitation or standard for that pollutant; and

(3) uses a control device, as defined in 40 CFR 64.1, to comply with that emission limitation or standard.

The following table is used to identify the applicability of each of the criteria, under 40 CFR 64.1, to each new or modified emission unit involved:

CAM Applicability Analysis - PM							
Emission Unit	**Control Device Used**	**Emission Limitation** (Y/N)	**Uncontrolled PTE** (ton/yr)	**Controlled PTE** (ton/yr)	**Part 70 Major Source Threshold** (ton/yr)	**CAM Applicable** (Y/N)	**Large Unit** (Y/N)
BLA-056	Y	Y	1.04	.00	100	N	N
BLA-057	Y	Y	1.04	.00	100	N	N
BLA-073	Y	Y	18.95	.02	100	N	N

CAM Applicability Analysis - PM_{10}							
Emission Unit	**Control Device Used**	**Emission Limitation (Y/N)**	**Uncontrolled PTE (ton/yr)**	**Controlled PTE (ton/yr)**	**Part 70 Major Source Threshold (ton/yr)**	**CAM Applicable (Y/N)**	**Large Unit (Y/N)**
BLA-056	Y	Y	0.73	.00	100	N	N
BLA-057	Y	Y	0.73	.00	100	N	N
BLA-073	Y	Y	13.27	.01	100	N	N

Based on this evaluation, the requirements of 40 CFR Part 64, CAM are not applicable to any of the new units as part of this modification.

State Rule Applicability Determination

The following state rules are applicable to the source due to the modification:

326 IAC 2-2 and 2-3 (PSD and Nonattainment NSR)
This modification to an existing minor stationary source is not major because no attainment pollutants are emitted. Therefore, pursuant to 326 IAC 2-2, the PSD requirements do not apply.

This modification to an existing minor stationary source is not major because the emissions increase is less than the Nonattainment NSR major source thresholds. Therefore, pursuant to 326 IAC 2-1.1-5, the Nonattainment NSR requirements do not apply.

326 IAC 2-4.1 (Major Sources of Hazardous Air Pollutants (HAP))
The operation of BLA-056, BLA-057 and BLA-073 will not produce HAP emissions. Therefore, 326 IAC 2-4.1 will not apply.

326 IAC 2-6 (Emission Reporting)
Since this source is required to have an operating permit under 326 IAC 2-7, Part 70 Permit Program, this source is subject to 326 IAC 2-6 (Emission Reporting). In accordance with the compliance schedule in 326 IAC 2-6-3, an emission statement must be submitted triennially. The first report is due no later than July 1, 2006, and subsequent reports are due every three (3) years thereafter. The emission statement shall contain, at a minimum, the information specified in 326 IAC 2-6-4.

326 IAC 5-1 Opacity Limitations
This facility is located in Dubois County, Bainbridge Township. In accordance with 326 IAC 5-1-2(2), except as provided in 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), opacity, not including condensed water vapor, emitted by or from a facility or source shall meet the following limitations:

(a) Opacity shall not exceed an average of thirty percent (30%) in any one (1) six (6) minute averaging period.

(b) Opacity readings 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, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

326 IAC 6-4 Fugitive Dust Emissions
This rule applies to all source of fugitive dust located anywhere in the state. 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).

326 IAC 6.5 (Particulate Matter Emission Limitations Except Lake County)
This rule applies to specifically listed sources or facilities, or sources or facilities not specifically listed but located in a listed county and having either a potential to emit particulate matter of one hundred (100) tons per year (tpy) or actual particulate matter emissions of ten (10) tons per year or more. The source is located in Dubois County, a specifically listed county and has potential particulate emission of one hundred (100) tons per year or more; therefore, 326 IAC 6.5-1-2(a) applies to this modification. Pursuant to 326 IAC 6.5-1-2(a), the particulate matter emissions from the facilities listed below shall not exceed 0.03 gr/dscf.

PM Emissions Based on Design Grain Loading[d]							
Baghouse / ID#	**Outlet Grain Loading (gr/dscf)**	**ACFM**	**Control Efficiency**	**Allowable Emissions 326 IAC 6.5 (lb/hr)[c]**	**Uncontrolled Emissions (ton/yr) [e]**	**Controlled Emissions (ton/yr)**	**Controlled Emissions (lb/hr)**
DUC-051[a]	0.0006	9,500	98.00%	2.44	10.75	0.215	0.049
DUC-052[a]	0.0006	15,000	98.00%	3.86	16.85	0.337	0.077
DUC-073[b]	0.00014	900	99.90%	0.23	4.00	0.004	0.001
DUC-063[b]	0.00010	12,000	99.90%	3.08	44.00	0.044	0.010

(a) Grain loading, control efficiency and air flow rate were taken from Part 70 Renewal T037-17555-00089, issued April 1, 2004.
(b) Grain loading, control efficiency and air flow rate were provided by the applicant.
(c) Allowable emissions for 326 IAC 6.5 are based on a grain loading of 0.03 gr/dscf.
(d) Emission calculations are explained in Appendix A, page 4 of 4.
(e) Uncontrolled emissions based upon design grain loading, control efficiency and air flow rate.

The hourly particulate matter emissions from each baghouse are below the allowable emissions from 326 IAC 6.5; therefore, the Permittee can comply with the requirements of 326 IAC 6.5.

326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes)
A more stringent emissions limitation exists in 326 IAC 6.5; therefore, 326 IAC 6-3-2 does not apply to abrasive blast units BLA-056, BLA-057 and BLA-073.

326 IAC 6-5 (Fugitive Particulate Matter Emission Limitations)
This rule applies to a sources of fugitive particulate matter emissions located in nonattainment areas for particulate matter as designated by the board (except for such a source located in Lake County) which has potential fugitive particulate matter emissions of twenty-five (25) tons per year or more. This includes sources located in secondary nonattainment areas including Dubois County, Bainbridge Township. Jasper Engine Exchange is located in Dubois County, Bainbridge Township but it does not have potential fugitive particulate matter emission of twenty-five (25) tons per year or more; therefore, 326 IAC 6-5 does not apply.

326 IAC 6.5 (Particulate Matter Limitations Except Lake County)
This rule applies to sources specifically listed in 326 IAC 6.5-2 through 326 IAC 6.5-10, or to those sources with a potential to emit one hundred (100) tons per year or more or with actual emissions of ten (10) tons or more of particulate matter. This source is not specifically listed but does have a potential to emit of 100 tons per year or more of particulate matter. Therefore, 326 IAC 6.5-2(a) of this rule applies. Particulate matter emissions from facilities located at this source shall not exceed three-hundredths (0.03) grain per dry standard cubic feet.

Compliance Determination and Monitoring Requirements

Permits issued under 326 IAC 2-7 are required to ensure that sources can demonstrate compliance with all applicable state and federal rules on a continuous basis. All state and federal rules contain compliance provisions; however, these provisions do not always fulfill the requirement for a continuous demonstration. When this occurs IDEM, OAQ in conjunction with the source, must develop specific conditions to satisfy 326 IAC 2-7-5. As a result, Compliance Determination Requirements are included in the permit. The Compliance Determination Requirements in Section D of the permit are those conditions that are found directly within state and federal rules and the violation of which serves as grounds for enforcement action.

If the Compliance Determination Requirements are not sufficient to demonstrate continuous compliance, they will be supplemented with Compliance Monitoring Requirements, also in Section D of the permit. Unlike Compliance Determination Requirements, failure to meet Compliance Monitoring conditions would serve as a trigger for corrective actions and not grounds for enforcement action. However, a violation in relation to a compliance monitoring condition will arise through a source's failure to take the appropriate corrective actions within a specific time period.

Blast units BLA-073, BLA-037 and BLA-501 have applicable compliance determination and monitoring requirements. Since the uncontrolled potential to emit of these units is in excess of the 326 IAC 6.5 emission limit, the pollution control equipment is required to be in operation and to function properly whenever the blast units are in use. Blast units BLA-073, BLA-037 and BLA-501 exhaust indoors so visible emission notations are not required. However, pressure drop readings are required to ensure the control device is functioning properly.

The compliance determination condition applicable to this modification is as follows:

<u>Particulate Control</u>
(a) In order to comply with Condition D.3.1, the baghouses for particulate control shall be in operation and control emissions from one (1) plastic bead abrasive blasting unit (BLA-073), one (1) soda blasting unit (BLA-037), and one (1) plastic bead abrasive blasting unit, identified as BLA 501 at all times that the units are in operation.

This compliance determination condition is required because the control devices for blast units BLA-037, BLA-073 and BLA-501 are required to function properly to ensure compliance with 326 IAC 6.5.

The compliance monitoring conditions applicable to this modification are as follows:

Parametric Monitoring Requirements

The Permittee shall record the pressure drop across the baghouses used in conjunction with one (1) soda blasting unit (BLA-037), one (1) plastic bead abrasive blasting unit, identified as BLA-501, and one (1) plastic bead blast unit identified as BLA-073, at least once per week when the processes are in operation. When for any one reading, the pressure drop across the baghouse is outside the normal range of 1.0 and 6.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C- Response to Excursions or Exceedances. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a deviation from this permit.

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

Broken or Failed Bag Detection

(a) For a single compartment baghouse controlling emissions from a process operated continuously, a failed unit and the associated process shall be shut down immediately until the failed unit has 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).

(b) For a single compartment baghouse controlling emissions from a batch process, the feed to the process shall be shut down immediately until the failed unit has been repaired or replaced. The emissions unit shall be shut down no later than the completion of the processing of the material in the line. 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).

Bag failure can be indicated by a significant drop in the baghouse's pressure reading with abnormal visible emissions, by an opacity violation, or by other means such as gas temperature, flow rate, air infiltration, leaks, dust traces or triboflows.

These compliance monitoring conditions are required because the control devices for blast units BLA-037, BLA-073 and BLA-501 are required to function properly to ensure compliance with 326 IAC 6.5.

Proposed Changes

The changes listed below have been made to Part 70 Operating Permit Renewal No. T037-17555-00089. Deleted language appears as ~~strikethroughs~~ and new language appears in **bold**:

(a) To minimize future amendments to the issued Part 70 Permits, the OAQ decided to delete the name and/or title of the Responsible Official (RO) in Section A.1, General Information, of the permit. However, OAQ will still be evaluating if a change in RO meets the criteria specified in 326 IAC 2-7-1(34). In addition, the source status has been updated. The revised permit condition is as follows:

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

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

~~Responsible Official:~~	~~Vice President~~
Source Address:	815 Wernsing Road, Jasper, Indiana 47547
Mailing Address:	P. O. Box 650, Jasper, IN 47547-0650

General Source Phone Number:	(812) 482-1041
SIC Code:	3714
County Location:	Dubois
Source Location Status:	Nonattainment for PM2.5 Attainment for all other criteria pollutants
Source Status:	Part 70 **Operating** Permit Program Minor Source, under PSD and Emission Offset **Rules** **Minor Source, under Nonattainment NSR Rules** Major Source, Section 112 of the Clean Air Act **Not 1 of 28 Source Categories**

(b) All references to IDEM, OAQ's mailing address have been revised as follows:

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

Indiana Department of Environmental Management
Modeling Section, Office of Air Quality
100 North Senate Avenue
MC 61-50 IGCN 1003
Indianapolis, Indiana 46204-2251

Indiana Department of Environmental Management
Asbestos Section, Office of Air Quality
100 North Senate Avenue
MC 61-52 IGCN 1003
Indianapolis, Indiana 46204-2251

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

Indiana Department of Environmental Management
Air Compliance Section, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

(c) All references to the IDEM, OAQ, Compliance Section telephone number have been revised as follows: ~~317-233-5674~~ **317-233-0178**.

All references to the IDEM, OAQ, Compliance Section facsimile number have been revised as follows: ~~317-233-5967~~ **317-233-6865**.

The telephone number for the Southwest Regional Office has been added to Condition B.11(b)(4).

(d) Upon further review, IDEM has decided to remove (d) concerning nonroad engines from original Condition B.18 – Permit Amendment or Modification. 40 CFR 89, Appendix A specifically indicates that states are not precluded from regulating the use and operation of nonroad engines, such as regulations on hours of usage, daily mass emission limits, or sulfur limits on fuel; nor are permits regulating such operations precluded, once the engine is no longer new.

(e) Condition B.25 – Advanced Source Modification Approval has been added. This condition incorporates construction conditions related to the modification. The condition requires construction on the proposed modification to commence within eighteen (18) months from the date of issuance of the permit. It also recognizes the requirements to obtain a source modification under 326 IAC 2-7-10.5 have been satisfied for this modification.

(f) The last sentence of original Condition C.2 – Open Burning, was deleted because the provisions of 326 IAC 9-1-2 are federally enforceable and are included in Indiana's State Implementation Plan (SIP).

(g) The provisions of 326 IAC 1-7-1(3), 326 IAC 1-7-2, 326 IAC 1-7-3(c) and (d), 326 IAC1-7-4, and 326 IAC 1-7-5(a), (b), and (d) are not federally enforceable. Condition C.5 - Stack Height has been modified to include a statement indicating the portions of 326 IAC 1-7 that are not federally enforceable.

(h) Where found, typographical and formatting errors have been made throughout the permit. The table of contents has been updated to reflect the revised Section A, B, C and D conditions.

(i) Revisions to the A and D sections are shown after the B and C section revisions which follow:

B Section Modifications

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

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

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

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

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

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

~~(d) No permit amendment or modification is required for the addition, operation or removal of a nonroad engine, as defined in 40 CFR 89.2.~~

B.25 Advanced Source Modification Approval [326 IAC 2-7-5(16)][326 IAC 2-7-10.5]

(a) The requirements to obtain a source modification approval under 326 IAC 2-7-10.5 or a permit modification under 326 IAC 2-7-12 are satisfied by this permit for the proposed emission units, control equipment or insignificant activities in Sections A.2 and A.3.

(b) Pursuant to 326 IAC 2-1.1-9 any permit authorizing construction may be revoked if construction of the emission unit has not commenced within eighteen (18) months from the date of issuance of the permit, or if during the construction, work is suspended for a continuous period of one (1) year or more.

C Section Modifications

C.2 Open Burning [326 IAC 4-1][IC 13-17-9]

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

C.5 Stack Height [326 IAC 1-7]

The Permittee shall comply with the applicable provisions of 326 IAC 1-7 (Stack Height Provisions), for all exhaust stacks through which a potential (before controls) of twenty-five (25) tons per year or more of particulate matter or sulfur dioxide is emitted. **The provisions of 326 IAC 1-7-1(3), 326 IAC 1-7-2, 326 IAC 1-7-3(c) and (d), 326 IAC1-7-4, and 326 IAC 1-7-5(a), (b), and (d) are not federally enforceable.**

A and D Section Modifications

Modification No. 1:

Revised Emission Unit Descriptions
Section A.2 has been updated to reflect the addition and/or revision of emission unit and control equipment descriptive information proposed by this modification. The revised section follows:

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:

...

(o) two (2) baghouses, identified as DUC051 and DUC052, each with a gas flow rate of greater than 4,000 actual cubic foot per minute, for controlling grinding**,** ~~and~~ machining operations **and sand blasting operations** with an uncontrolled potential particulate emissions of greater than 25 pounds per day~~;~~**and the following:**

(1) one (1) soda blasting unit, approved for construction in 2008, identified as BLA-056, with a maximum capacity of 12.5 lb/hr of blast media, controlled by baghouse DUC-052, exhausting indoors only;

(2) one (1) soda blasting unit, approved for construction in 2008, identified as BLA-057, with a maximum capacity of 12.5 lb/hr of blast media, controlled by baghouse DUC-051, exhausting indoors only;

(p) one (1) soda blasting unit, identified as BLA-037, equipped with a baghouse for particulate control, identified as ~~BLA-037~~**DUC-068**, exhausting inside the building, capacity: 60 units per hour;

(q) one (1) plastic bead abrasive blasting unit, identified as BLA-501, installed in 2006, equipped with a baghouse for particulate control, identified as BLA-501, exhausting inside the building, capacity: 116 pounds of abrasive per hour; **and**

(r) one (1) plastic bead blast unit, approved for construction in 2008, identified as BLA-073, with a maximum capacity of 108 lb/hr of blast media, controlled by baghouse DUC-073, exhausting indoors only.

Modification No. 2:

Revised Emission Unit Descriptions
Section A.3 has been updated to reflect the addition and revision of emission unit and control equipment descriptive information proposed by this modification. The revised section follows:

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):

...

(d) **three** ~~five~~ (~~5~~**3**) baghouses, identified as BLA007, BLA009~~,~~ **and** BLA011, ~~BLA017 and BLA018,~~ each with design outlet grain loading of less than or equal to 0.03 grains per actual cubic foot and a gas flow rate of less than or equal to 4,000 actual cubic foot per minute, for controlling the sand blasting operations; [326 IAC 6.5-1-2]

(e) five (5) baghouses, identified as DUC001, DUC00~~2~~**3**, DUC015, DUC021 and DUC027 each with design outlet grain loading of less than or equal to 0.03 grains per actual cubic foot and a gas flow rate of less than or equal to 4,000 actual cubic foot per minute, for controlling the grinding**, sandblasting** and machining operations, including deburring, buffing, polishing and abrasive blasting; [326 IAC 6.5-1-2]

(f) two (2) baghouses (ID Nos. DUC006 and DUC~~029~~**-063**), each with a gas flow rate of greater than 4,000 actual cubic foot per minute, for controlling grinding and machining operations with uncontrolled potential particulate emissions of less than 25 pounds per day; [326 IAC 6.5-1-2]

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

(h) one (1) aluminum oxide abrasive blasting unit, identified as BLA-502, installed in 2006, equipped with a baghouse for particulate control, identified as DUC-0~~13~~**68**, exhausting inside the building, capacity: 315 pounds of abrasive per hour; [326 IAC 6.5-1-2]

(i) three (3) armex empire blasting units, identified as BLA-503, BLA-504 and BLA-505, each installed in 2006, each equipped with a baghouse for particulate control, identified as DUC-503, DUC-504 and DUC-~~505~~**068**, respectively, exhausting inside the building, capacity: 12.5 pounds of abrasive per hour, each; [326 IAC 6.5-1-2]

(j) two (2) steel shot peener units, identified as BLA-506 and BLA-507, both installed in 2006, each equipped with a baghouse for particulate control, identified as DUC-503 and DUC-504, respectively, exhausting inside the building, capacity: 600 pounds of abrasive per hour, each; and [326 IAC 6.5-1-2]

(k) one (1) air atomization paint spray booth, constructed in 2006, identified as PTB012, capable of painting a maximum of four (4) units per hour, using dry filters for overspray control, and exhausting through one (1) stack, identified as PTB012. [326 IAC 6.5-1-2]

Modification No. 3:

Facilities Description Updates
Section D.3 has been updated to reflect the changes in emission unit and pollution control equipment descriptive information. The revised section follows:

SECTION D.3 FACILITY OPERATION CONDITIONS

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

(o) two (2) baghouses, identified as DUC051 and DUC052, each with a gas flow rate of greater than 4,000 actual cubic foot per minute, for controlling grinding**,** ~~and~~ machining operations **and sand blasting operations** with an uncontrolled potential particulate emissions of greater than 25 pounds per day~~,~~**and the following:**

(1) one (1) soda blasting unit, approved for construction in 2008, identified as BLA-056, with a maximum capacity of 12.5 lb/hr of blast media, controlled by baghouse DUC-052, exhausting indoors only;

(2) one (1) soda blasting unit, approved for construction in 2008, identified as BLA-057, with a maximum capacity of 12.5 lb/hr of blast media, controlled by baghouse DUC-051, exhausting indoors only;

(p) one (1) soda blasting unit, identified as BLA-037, equipped with a baghouse for particulate control, identified as ~~BLA-037~~**DUC-068**, exhausting inside the building, capacity: 60 units per hour;

(q) one (1) plastic bead abrasive blasting unit, identified as BLA-501, installed in 2006, equipped with a baghouse for particulate control, identified as BLA-501, exhausting inside the building, capacity: 116 pounds of abrasive per hour~~.~~**; and**

(r) one (1) plastic bead blast unit, approved for construction in 2008, identified as BLA-073, with a maximum capacity of 108 lb/hr of blast media, controlled by baghouse DUC-073, exhausting indoors only.

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

Modification No. 4:

Facilities Description Updates
Condition D.3.1 has been updated to include an emission limitation in accordance with 326 IAC 6.5 for the plastic bead abrasive blast unit BLA-073. The revised condition follows:

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

D.3.1 Particulate [326 IAC 6.5-1-2]

(a) Pursuant to 326 IAC 6.5-1-2, particulate matter emissions from the grinding and machining operations controlled by two (2) baghouses, identified as DUC051and DUC052, shall each not exceed 0.03 grains per dry standard cubic foot.

(b) Pursuant to 326 IAC 6.5-1-2, particulate matter emissions from the one (1) soda blasting unit, identified as BLA-037, shall not exceed 0.03 grains per dry standard cubic foot.

(c) Pursuant to 326 IAC 6.5-1-2, particulate matter emissions from the one (1) plastic bead abrasive blasting unit, identified as BLA-501, shall not exceed 0.03 grains per dry standard cubic foot.

(d) Pursuant to 326 IAC 6.5-1-2, particulate matter emissions from the one (1) plastic bead abrasive blasting unit, identified as BLA-073, shall not exceed 0.03 grains per dry standard cubic foot.

Modification No. 5:

Facilities Description Updates
Condition D.3.3 has been updated to include a requirement to operate the emission control unit for the plastic bead abrasive blast unit BLA-073. No multicompartment baghouses are in use and condition (b) may be removed. The revised condition follows:

D.3.3 Particulate Control

~~(a)~~ In order to comply with **Condition** D.3.1, the baghouses for particulate control shall be in operation and control emissions from **one (1) plastic bead abrasive blasting unit (BLA-073),** ~~the grinding and machining operations, the~~ one (1) soda blasting unit (BLA-037), and one (1) plastic bead abrasive blasting unit, identified as BLA-501 at all times that the units are in operation.

~~(b) In the event that bag failure is observed in a multi-compartment baghouse, if operations will continue for ten (10) days or more after the failure is observed before the failed units will be repaired or replaced, the Permittee shall promptly notify the IDEM, OAQ of the expected date the failed units will be repaired or replaced. The notification shall also include the status of the applicable compliance monitoring parameters with respect to normal, and the results of any response actions taken up to the time of notification.~~

Modification No. 6:

Facilities Description Updates
Existing Conditions D.3.4, D.3.5 and D.3.7 have been removed because the pollution control equipment listed in the permit can no longer vent to the outdoors. Bag failure will be evident and visible emission notations are not required. The Commissioner reserves the right to require visible emission notations, parametric monitoring and the associated record keeping requirements if future conditions at the source indicate the necessity. The remaining conditions and the table of contents have been revised to reflect these changes. Revisions to the Section D.3 conditions are as follows:

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

~~D.3.4 Visible Emissions Notations~~

~~(a) Once per day visible emission notations of the grinding and machining, the one (1) soda blasting unit (BLA-037), and one (1) plastic bead abrasive blasting unit, identified as BLA-501 stack exhausts shall be performed during normal daylight operations when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.~~

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

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

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

~~(e) If abnormal emissions are observed, the Permittee shall take reasonable response steps in accordance with Section C- Response to Excursions or Exceedances. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances shall be considered a deviation from this permit.~~

~~D.3.5 Parametric Monitoring~~

~~The Permittee shall record the pressure drop across the baghouses used in conjunction with the grinding and machining process, the one (1) soda blasting unit (BLA-037), and one (1) plastic bead abrasive blasting unit, identified as BLA-501, at least once per week when the processes are in operation when exhausting to the atmosphere. When for any one reading, the pressure drop across the baghouse is outside the normal range of 1.0 and 6.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C- Response to Excursions or Exceedances. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a deviation from this permit.~~

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

D.3.~~6~~**4** Broken or Failed Bag Detection

...

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

~~D.3.7 Record Keeping Requirements~~

~~(a) To document compliance with Condition D.3.4, the Permittee shall maintain records of visible emission notations of the grinding and machining, one (1) soda blasting unit and one (1) plastic bead abrasive blasting unit, identified as BLA-501, stack exhaust once per day when exhausting to the atmosphere.~~

(~~b~~) ~~To document compliance with Condition D.3.5, the Permittee shall maintain records once per day of the pressure drop during normal operation when exhausting to the atmosphere.~~

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

Modification No. 7:

Facilities Description Updates
The facility descriptive information listed in Section D.4 has been updated to reflect the changes shown in Section A.3. The revised facility description box follows:

SECTION D.4 FACILITY OPERATION CONDITIONS

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

Insignificant Activities:
...

(d) **three (3)**~~five (5)~~ baghouses, identified as BLA007, BLA009~~,~~ **and** BLA011, ~~BLA017 and BLA018,~~ each with design outlet grain loading of less than or equal to 0.03 grains per actual

cubic foot and a gas flow rate of less than or equal to 4,000 actual cubic foot per minute, for controlling the sand blasting operations; [326 IAC 6.5-1-2]

(e) five (5) baghouses, identified as DUC001, DUC00~~2~~**3**, DUC015, DUC021 and DUC027 each with design outlet grain loading of less than or equal to 0.03 grains per actual cubic foot and a gas flow rate of less than or equal to 4,000 actual cubic foot per minute, for controlling the grinding**, sandblasting** and machining operations, including deburring, buffing, polishing and abrasive blasting; [326 IAC 6.5-1-2]

(f) two (2) baghouses (ID Nos. DUC006 and DUC~~029~~**-063**), each with a gas flow rate of greater than 4,000 actual cubic foot per minute, for controlling grinding and machining operations with uncontrolled potential particulate emissions of less than 25 pounds per day; [326 IAC 6.5-1-2]

(h) one (1) aluminum oxide abrasive blasting unit, identified as BLA-502, installed in 2006, equipped with a baghouse for particulate control, identified as DUC-0~~13~~**68**, exhausting inside the building, capacity: 315 pounds of abrasive per hour; [326 IAC 6.5-1-2]

(i) three (3) armex empire blasting units, identified as BLA-503, BLA-504 and BLA-505, each installed in 2006, each equipped with a baghouse for particulate control, identified as DUC-503, DUC-504 and DUC-~~505~~**068**, respectively, exhausting inside the building, capacity: 12.5 pounds of abrasive per hour, each; [326 IAC 6.5-1-2]

(j) two (2) steel shot peener units, identified as BLA-506 and BLA-507, both installed in 2006, each equipped with a baghouse for particulate control, identified as DUC-503 and DUC-504, respectively, exhausting inside the building, capacity: 600 pounds of abrasive per hour, each; and [326 IAC 6.5-1-2]

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

Modification No. 8:

Condition Description Correction
The condition description for Condition D.4.1 has been updated to better clarify the rule citation. The revised condition follows:

D.4.1 Particulate **Matter (PM)** [326 IAC 6.5-1-2**(b)(3)**]

Pursuant to 326 IAC 6.5-1-2 (b)(3) (Particulate Limitations - Dubois County) the PM from the 4.5 MMBtu per hour heat input boiler shall be limited to 0.01 grains per dry standard cubic foot of exhaust air, which is equivalent to 0.86 pounds per hour at an exhaust flow rate of 10,000 dry standard cubic foot.

Modification No. 9:

Particulate Matter Limitations
The particulate matter limitations listed in Condition D.4.2 has been updated to reflect the emission unit revisions proposed by this modification. The revised facility description box follows:

D.4.2 Particulate Matter (PM) ~~(326 IAC 6.5-1-2)~~**[326 IAC 6.5-1-2(a)]**

Pursuant to 326 IAC 6.5-1-2(a)(Dubois County Particulate Limitations), particulate matter (PM) emissions from the sand blasting operations controlled by five (5) baghouses, identified as BLA007, BLA009~~,~~ **and** BLA011~~, BLA017 and BLA018~~, and grinding and machining operations controlled by ~~fourteen~~ **twelve** baghouses, identified as DUC001, DUC00~~2~~**3**, DUC006, DUC015, DUC021, DUC027, ~~DUC029~~, DUC052, DUC045, BLA059,

~~DUC013,~~ DUC503, DUC504 and DUC~~505~~**-068** shall each be limited to 0.03 grains per dry standard cubic foot of exhaust air, which is equivalent to the following rates:

~~ID #~~	~~Exhaust Flow Rate (cfm)~~	~~Emission Limit (lb/hr)~~	~~ID #~~	~~Exhaust Flow Rate (cfm)~~	~~Emission Limit (lb/hr)~~
~~BLA007~~	~~420~~	~~0.11~~	~~DUC002~~	~~1,200~~	~~0.31~~
~~BLA009~~	~~1,250~~	~~0.32~~	~~DUC006~~	~~18,000~~	~~4.63~~
~~BLA011~~	~~420~~	~~0.11~~	~~DUC015~~	~~2,200~~	~~0.57~~
~~BLA017~~	~~750~~	~~0.19~~	~~DUC021~~	~~2,000~~	~~0.51~~
~~BLA018~~	~~420~~	~~0.11~~	~~DUC027~~	~~3,000~~	~~0.77~~
~~DUC001~~	~~4,000~~	~~1.03~~	~~DUC029~~	~~6,400~~	~~1.65~~
~~DUC045~~	~~15,000~~	~~3.86~~	~~BLA059~~	~~900~~	~~0.23~~
~~DUC013~~	~~1,550~~	~~0.40~~	~~DUC504~~	~~5,000~~	~~1.29~~
~~DUC503~~	~~5,000~~	~~1.29~~	~~DUC505-~~	~~13,800~~	~~3.55~~

ID #	**Exhaust Flow Rate (cfm)**	**Emission Limit (lb/hr)**	**ID #**	**Exhaust Flow Rate (cfm)**	**Emission Limit (lb/hr)**
BLA007	**420**	**0.11**	**DUC021**	**2,000**	**0.51**
BLA009	**1,250**	**0.32**	**DUC027**	**3,000**	**0.77**
BLA011	**420**	**0.11**	**DUC045**	**15,000**	**3.86**
BLA059	**900**	**0.23**	**DUC063**	**12,000**	**3.08**
DUC001	**4,000**	**1.03**	**DUC068**	**13,800**	**3.55**
DUC003	**1,200**	**0.31**	**DUC503**	**5,000**	**1.29**
DUC006	**18,000**	**4.63**	**DUC504**	**5,000**	**1.29**
DUC015	**2,200**	**0.57**	**---**	**---**	**---**

Modification No. 10:

Particulate Control Condition Update
Since baghouses BLA017 and BLA018 no longer control the operations listed in this section, they have been removed from Condition D.4.5. The revised condition follows:

Compliance Determination Requirement

D.4.5 Particulate Control

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

Modification No. 11:

Quarterly Reporting Forms
The quarterly reporting forms for fuel usage and HAPs have been modified to make reporting easier. The revised portions of the forms are shown below:

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

Part 70 Quarterly Report

Source Name: Jasper Engine Exchange, Inc.
Source Address: 815 Wernsing Road, Jasper, Indiana 47547
Mailing Address: P.O. Box 650, Jasper, Indiana 47547-0650
Part 70 Permit No.: T037-17555-00089
Facility: Reciprocating Internal Combustion Engines
Parameter: Fuel Usages
Limit:
(a) natural gas usages for all reciprocating internal combustion engines are limited at 119.7 million cubic feet (MMCF) per 12 consecutive month period, with compliance determined at the end of each month;
(b) #2 diesel fuel usages for all reciprocating internal combustion engines are limited at 100,000 gallons per 12 consecutive month period, with compliance determined at the end of each month; and
(c) gasoline usages for all reciprocating internal combustion engines are limited at 10,000 gallons per 12 consecutive month period, with compliance determined at the end of each month.

QUARTER : _____ YEAR: _____

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

	Column 1	**Column 2**	**Column 1 + 2**
	This Month	**Previous 11 Months**	**12 Month Total**
Month-1 / Natural Gas (MMCF)			
Month-1 / #2 Diesel Fuel (Gallons)			
Month-1 / Gasoline (Gallons)			
Month-2 / Natural Gas (MMCF)			
Month-2 / #2 Diesel Fuel (Gallons)			
Month-2 / Gasoline (Gallons)			
Month-3 / Natural Gas (MMCF)			
Month-3 / #2 Diesel Fuel (Gallons)			
Month-3 / Gasoline (Gallons)			

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

Part 70 Quarterly Report

Source Name:	Jasper Engine Exchange, Inc.
Source Address:	815 Wernsing Road, Jasper, Indiana 47547
Mailing Address:	P.O. Box 650, Jasper, Indiana 47547-0650
Part 70 Permit No.:	T037-17555-00089
Facility:	Surface Coating Operations
Parameter:	Hazardous Air Pollutants (HAPs)
Limit:	Less than 9 and 22 tons per 12 consecutive month period for any single HAP and total HAP, respectively, with compliance determined at the end of each month.

QUARTER: _____ YEAR: _____

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

Month	**Column 1**	**Column 2**	**Column 1 + Column 2**
	This Month	**Previous 11 Months**	**12 Month Total**
Month 1 - Single HAP			
Month 1 - Total HAP			
Month 2 - Single HAP			
Month 2 - Total HAP			
Month 3 - Single HAP			
Month 3 - Total HAP			

Conclusion and Recommendation

The construction of this proposed modification shall be subject to the conditions of the attached proposed Part 70 Minor Source Modification No. 037-25481-00089 and Significant Permit Modification No. 037-26007-00089. The staff recommends to the Commissioner that this Part 70 Minor Source and Significant Permit Modification be approved.

Appendix A: Emission Calculations
Confined Abrasive Blasting for Emission Unit BLA-056

Company Name: Jasper Engine Exchange, Inc.
Address City IN Zip: 815 Wernsing Road, Jasper, Indiana 47547-0650
Permit Number: MSM 037-25481-00089 and SPM 037-26007-00089
Plt ID: 037-00089
Reviewer: David J. Matousek
Date: January 29, 2008

Table 1 - Emission Factors for Abrasives

	Emission Factor	
Abrasive	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

	Nozzle Pressure (psig)							
Internal diameter, in	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 =		49
D = Density of abrasive (lb/ft3) From Table 2 =	provided by applicant	62
D1 = Density of sand (lb/ft3) =		99
ID = Actual nozzle internal diameter (in) =		0.11
ID1 = Nozzle internal diameter (in) from Table 3 =		0.125

Abrasive Flow Rate (FR) (lb/hr) = **23.764** per nozzle

Uncontrolled Emissions (E, lb/hr)

EF = emission factor (lb PM/ lb abrasive) From Table 1 =	0.010	
FR = Flow Rate (lb/hr) =	23.764	
w = fraction of time of wet blasting =	0	%
N = number of nozzles =	1	

Uncontrolled PM Emissions =	**0.24 lb PM/hr**	**if**	PM_{10} = 0.7 x PM	**so PM_{10} =**	0.1663 **lb PM_{10}/hr**
	1.04 ton PM/yr				0.7284 **ton PM_{10}/yr**

Overall Control Efficiency =	**99.9%**

Controlled PM Emissions =	**0.0002 lb PM/hr**	**if**	PM_{10} = 0.7 x PM	**so PM_{10} =**	0.0001 **lb PM_{10}/hr**
	0.0010 ton PM/yr				0.0004 **ton PM_{10}/yr**

METHODOLOGY

Emission Factors from STAPPA/ALAPCO "Air Quality Permits", Vol. I, Section 3 "Abrasive Blasting" (1991 edition)
Ton/yr = lb/hr X 8760 hr/yr X ton/2000 lbs
Flow Rate (FR) (lb/hr) = FR1 x (ID/ID1)2 x (D/D1)
E = EF x FR x (1-w/200) x N
w should be entered in as a whole number (if w is 50%, enter 50)

NOTES

The calculations for the blast units are based on media density, nozzle internal diameter and nozzle pressure provided by the applicant.
The unit capacities shown in Section A.2 and A.3 are from the blast rate provided by the applicant in Form PI-17.
The blast rate calculated above is more conservative then the figure provided by the applicant and is used for emission calculations.

Appendix A: Emission Calculations
Confined Abrasive Blasting for Emission Unit BLA-057

Company Name: Jasper Engine Exchange, Inc.
Address City IN Zip: 815 Wernsing Road, Jasper, Indiana 47547-0650
Permit Number: MSM 037-25481-00089 and SPM 037-26007-00089
Plt ID: 037-00089
Reviewer: David J. Matousek
Date: January 29, 2008

Table 1 - Emission Factors for Abrasives

	Emission Factor	
Abrasive	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

	Nozzle Pressure (psig)							
Internal diameter, in	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 =		49
D = Density of abrasive (lb/ft3) From Table 2 =	provided by applicant	62
D1 = Density of sand (lb/ft3) =		99
ID = Actual nozzle internal diameter (in) =		0.11
ID1 = Nozzle internal diameter (in) from Table 3 =		0.125

Abrasive Flow Rate (FR) (lb/hr) = **23.764** per nozzle

Uncontrolled Emissions (E, lb/hr)

EF = emission factor (lb PM/ lb abrasive) From Table 1 =	0.010	
FR = Flow Rate (lb/hr) =	23.764	
w = fraction of time of wet blasting =	0	%
N = number of nozzles =	1	

Uncontrolled PM Emissions =	**0.24 lb PM/hr**	**if**	PM_{10} = 0.7 x PM	**so PM_{10} =**	0.1663 **lb PM_{10}/hr**
	1.04 ton PM/yr				0.7284 **ton PM_{10}/yr**

Overall Control Efficiency =	**99.9%**

Controlled PM Emissions =	**0.0002 lb PM/hr**	**if**	PM_{10} = 0.7 x PM	**so PM_{10} =**	0.0001 **lb PM_{10}/hr**
	0.0010 ton PM/yr				0.0004 **ton PM_{10}/yr**

METHODOLOGY

Emission Factors from STAPPA/ALAPCO "Air Quality Permits", Vol. I, Section 3 "Abrasive Blasting" (1991 edition)
Ton/yr = lb/hr X 8760 hr/yr X ton/2000 lbs
Flow Rate (FR) (lb/hr) = FR1 x (ID/ID1)2 x (D/D1)
E = EF x FR x (1-w/200) x N
w should be entered in as a whole number (if w is 50%, enter 50)

NOTES

The calculations for the blast units are based on media density, nozzle internal diameter and nozzle pressure provided by the applicant.
The unit capacities shown in Section A.2 and A.3 are from the blast rate provided by the applicant in Form PI-17.
The blast rate calculated above is more conservative then the figure provided by the applicant and is used for emission calculations.

Appendix A: Emission Calculations
Confined Abrasive Blasting for Emission Unit BLA-073

Company Name: Jasper Engine Exchange, Inc.
Address City IN Zip: 815 Wernsing Road, Jasper, Indiana 47547-0650
Permit Number: MSM 037-25481-00089 and SPM 037-26007-00089
Plt ID: 037-00089
Reviewer: David J. Matousek
Date: January 29, 2008

Table 1 - Emission Factors for Abrasives

	Emission Factor	
Abrasive	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

	Nozzle Pressure (psig)							
Internal diameter, in	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 =		181.5
D = Density of abrasive (lb/ft3) From Table 2 =	provided by applicant	59
D1 = Density of sand (lb/ft3) =		99
ID = Actual nozzle internal diameter (in) =		0.25
ID1 = Nozzle internal diameter (in) from Table 3 =		0.125

Abrasive Flow Rate (FR) (lb/hr) = **432.667** per nozzle

Uncontrolled Emissions (E, lb/hr)

EF = emission factor (lb PM/ lb abrasive) From Table 1 =	0.010	
FR = Flow Rate (lb/hr) =	432.667	
w = fraction of time of wet blasting =	0	%
N = number of nozzles =	1	

Uncontrolled PM Emissions =	**4.33 lb PM/hr**	**if**	PM_{10} = 0.7 x PM	**so PM_{10} =**	3.0287 **lb PM_{10}/hr**
	18.95 ton PM/yr				13.2657 **ton PM_{10}/yr**

Overall Control Efficiency =	**99.9%**

Controlled PM Emissions =	**0.0043 lb PM/hr**	**if**	PM_{10} = 0.7 x PM	**so PM_{10} =**	0.003 **lb PM_{10}/hr**
	0.0190 ton PM/yr				0.0131 **ton PM_{10}/yr**

METHODOLOGY

Emission Factors from STAPPA/ALAPCO "Air Quality Permits", Vol. I, Section 3 "Abrasive Blasting" (1991 edition)
Ton/yr = lb/hr X 8760 hr/yr X ton/2000 lbs
Flow Rate (FR) (lb/hr) = FR1 x (ID/ID1)2 x (D/D1)
E = EF x FR x (1-w/200) x N
w should be entered in as a whole number (if w is 50%, enter 50)

NOTES

The calculations for the blast units are based on media density, nozzle internal diameter and nozzle pressure provided by the applicant.
The unit capacities shown in Section A.2 and A.3 are from the blast rate provided by the applicant in Form PI-17.
The blast rate calculated above is more conservative then the figure provided by the applicant and is used for emission calculations.

Appendix A: Emission Calculations
PM and PM10 Emissions - 326 IAC 6.5 Compliance
Abrasive Blasting Based on Baghouse Outlet Loading

Company Name: Jasper Engine Exchange, Inc.
Address City IN Zip: 815 Wernsing Road, Jasper, Indiana 47547-0650
Permit Number: MSM 037-25481-00089 and SPM 037-26007-00089
Plt ID 037-00089
Reviewer: David J. Matousek
Date: January 29, 2008

1. Potential to Emit PM/PM10 - Captured Emissions: Estimate from Design Loading

Baghouse ID	Process Description	Control Device	Outlet Grain Loading (gr/dscf)	Maximum Air Flow Rate (scfm)	PTE of PM/PM10 after Control (lbs/hr)	PTE of PM/PM10 after Control (tons/yr)	Control Efficiency (%)	PTE of PM/PM10 before Control (tons/yr)
DUC-051	Control for BLA-057	Baghouse	0.0006	9,500	0.049	0.215	98.0%	10.75
DUC-052	Control for BLA-056	Baghouse	0.0006	15,000	0.077	0.337	98.0%	16.85
DUC-073	Control for BLA-073	Baghouse	0.00014	900	0.001	0.004	99.9%	4.00
DUC-029	Unit to be Replaced by DUC-063	Baghouse	0.000002	6,400	1.10E-04	4.80E-04	99.9%	0.48
DUC-063	Replacement for DUC-029	Baghouse	0.0001	12,000	0.010	0.044	99.9%	44.00

Assume all PM emissions equal PM10 emissions.

1. Potential to Emit PM/PM10 - Captured Emissions: 326 IAC 6.5 Loading Limit

Baghouse ID	Process Description	Control Device	Outlet Grain Loading (gr/dscf)	Maximum Air Flow Rate (scfm)	326 IAC 6.5 Limit (lbs/hr)	326 IAC 6.5 Limit (tons/yr)	Uncontrolled PTE (tons/yr)	Can Emission Unit Comply with 326 IAC 6.5 w/o control?	Control Efficiency (%)
DUC-051	Control for BLA-057	Baghouse	0.03	9,500	2.44	10.70	10.70	Y	98.0%
DUC-052	Control for BLA-056	Baghouse	0.03	15,000	3.86	16.90	16.90	Y	98.0%
DUC-073	Control for BLA-073	Baghouse	0.03	900	0.23	1.01	18.95	N	99.9%
DUC-063	Replacement for DUC-029	Baghouse	0.03	12,000	3.09	13.52	4.56	Y	99.9%

Assume all PM emissions equal PM10 emissions.

Methodology

PTE of PM/PM10 after Control (lbs/hr) = Grain Loading (gr/dscf) x Max. Air Flow Rate (scfm) x 60 mins/hr x 1/7000 lb/gr

PTE of PM/PM10 after Control (tons/yr) = Grain Loading (gr/dscf) x Max. Air Flow Rate (scfm) x 60 mins/hr x 1/7000 lb/gr x 8760 hr/yr x 1 ton/2000 lbs

PTE of PM/PM10 before Control (tons/yr) = PTE of PM/PM10 after Control (tons/yr) / (1-Control Efficiency)

326 IAC 6.5 Limit (lbs/hr) is calculated in the same manner as PTE of PM/PM10 after Control (lbs/hr)

326 IAC 6.5 Limit (ton/yr) is calculated in the same manner as PTE of PM/PM10 after Control (ton/yr)