



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: September 25, 2012

RE: Jasper Engine Exchange, Inc./037-31937-00089

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.

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 impracticable to raise such issues, or if the grounds for such objection arose after the comment period.

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

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

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



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Mr. Robert Calvert
Jasper Engine Exchange, Inc.
P.O. Box 650
Jasper, IN 47547

September 25, 2012

Re: 037-31937-00089
Significant Permit Modification to
Part 70 Renewal No.: T 037-26692-00089

Dear Mr. Calvert:

Jasper Engine Exchange, Inc. was issued a Part 70 Operating Permit Renewal on May 11, 2009 for a stationary engine, transmission and differential parts remanufacturing plant. A letter requesting changes to this permit was received on May 11, 2012. 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.

The modification relates to the removal of units, the addition of units, the renaming of units, and the replacement of control devices.

For your convenience, the entire Part 70 Operating Permit as modified is attached.

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 Kristen Willoughby, OAQ, 100 North Senate Avenue, MC 61-53 1003 IGCN, Indianapolis, Indiana, 46204-2251, or call at (800) 451-6027, and ask for Kristen Willoughby or extension (3-3031), or dial (317) 233-3031.

Sincerely,

Jenny Acker, Section Chief
Permits Branch
Office of Air Quality

Attachments:
Updated Permit
Technical Support Document
PTE Calculations

JLA/kw

cc: File – Dubois County
Dubois County Health Department
U.S. EPA, Region V
IDEM Southwest Regional Office
Compliance and Enforcement Branch



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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 construct and 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.

Part 70 Operating Permit No. T037-26692-00089	
Issued by: Original Signed by: Donald F. Robin, P.E., Section Chief Permits Branch Office of Air Quality	Issuance Date: May 11, 2009 Expiration Date: May 11, 2014

Significant Permit Modification No. 037-31937-00089	
Issued by:  Jenny Acker, Section Chief Permits Branch Office of Air Quality	Issuance Date: September 25, 2012 Expiration Date: May 11, 2014

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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(14)][326 IAC 2-7-1(22)]

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

Source Address:	815 Wernsing Road, Jasper, Indiana 47547
General Source Phone Number:	(812) 482-1041
SIC Code:	3714, 3519, 7537, 7539
County Location:	Dubois
Source Location Status:	Attainment for all criteria pollutants
Source Status:	Part 70 Operating Permit Program Minor Source under PSD Minor Source, under 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(14)]

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) Miscellaneous non-aerosol cleaning and machining operations whose potential uncontrolled VOC emissions are greater than three (3) pounds per hour or fifteen (15) pounds per day.

- (h) 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);
- (i) 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;
- (j) one (1) natural gas fired reciprocating internal combustion engine, identified as DYN033, with a rated heat input of 1.75 MMBtu/hr and a rated output of 250 HP;
- (k) one (1) natural gas fired reciprocating internal combustion engine, identified as DYN008, using gasoline as back-up fuel, with a rated heat input of 3.5 MMBtu/hr and a rated output of 500 HP;
- (l) 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, approved in 2006 for construction, 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, approved in 2006 for construction, with a rated heat input of 3.5 MMBtu/hr and a rated output of 500 HP;
- (o) four (4) natural gas controlled pyrolysis cleaning furnaces, approved in 2008 for construction, identified as OVE001, OVE002, OVE003, and OVE004, each with a maximum throughput of 4,000 pounds of equipment and 30 pounds of combustible material per 8-hour cycle, each with a total maximum heat input capacity of 0.43 MMBtu/hr, each using a natural gas afterburner for control, each exhausting through a stack;
- (p) three (3) natural gas controlled pyrolysis cleaning furnaces, approved in 2009 for construction, each unit using a natural gas afterburner for control, and each exhausting through a stack:
 - (1) one (1) natural gas controlled pyrolysis cleaning furnaces, identified as OVE0013 with a maximum throughput of 6,000 pounds of equipment and 30 pounds of combustible material per 8-hour cycle, and with a total maximum heat input capacity of 0.72 MMBtu/hr;
 - (2) one (1) natural gas controlled pyrolysis cleaning furnaces, identified as OVE0014 with a maximum throughput of 4,000 pounds of equipment and 30 pounds of combustible material per 8-hour cycle, and with a total maximum heat input capacity of 0.43 MMBtu/hr;
 - (3) one (1) natural gas controlled pyrolysis cleaning furnaces, identified as OVE0015 with a maximum throughput of 2,000 pounds of equipment and 30 pounds of combustible material per 8-hour cycle, and with a total maximum heat input capacity of 0.43 MMBtu/hr;
- (q) One (1) natural gas controlled pyrolysis cleaning furnace, approved in 2012 for construction, identified as OVE016, with a maximum throughput of 4,000 pounds of equipment and 30 pounds of combustible material per 8-hour cycle, with a total maximum heat input capacity of 0.72 MMBtu/hr, using a natural gas afterburner for control, exhausting through a stack.

- (q) two (2) baghouses, identified as DUC-081 and DUC-083, approved in 2012 for construction, 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 in 2008 for construction, identified as BLA-056, with a maximum capacity of 12.5 lb/hr of blast media, controlled by baghouse DUC-081, exhausting indoors only;
 - (2) one (1) soda blasting unit, approved in 2008 for construction, identified as BLA-057, with a maximum capacity of 12.5 lb/hr of blast media, controlled by baghouse DUC-083, exhausting indoors only;
- (s) one (1) soda blasting unit, identified as BLA-037, approved in 2003 for construction, equipped with a baghouse for particulate control, identified as DUC-084, exhausting inside the building, capacity: 60 units per hour;
- (t) one (1) plastic bead abrasive blasting unit, identified as BLA-045, approved in 2006 for construction, equipped with a baghouse for particulate control, identified as BLA-045, exhausting inside the building, capacity: 116 pounds of abrasive per hour;
- (u) one (1) plastic bead blast unit, approved in 2008 for construction, identified as BLA-073, with a maximum capacity of 108 lb/hr of blast media, controlled by baghouse DUC-082, exhausting indoors only;
- (v) four (4) pneumatic plastic bead blasting units, approved in 2008 for construction, identified as BLA074, BLA076, BLA078, and BLA080, each with a maximum capacity of 108 lb/hr blast media, each with a maximum process weight rate of 1020 lb/hr, each using a dust collector for control, identified as DUC-083, DUC-081, DUC-082, and DUC-082, respectively, and each exhausting indoors;
- (w) four (4) mechanically powered steel shot blasting units, approved in 2008 for construction, identified as BLA075, BLA077, BLA079, and BLA081, each with a maximum capacity of 800 lb/hr blast media, each with a maximum process weight rate of 1200 lb/hr, each using a baghouse for control, identified as DUC-083, BLA-077, DUC-082, and DUC-081, respectively, and each exhausting indoors;
- (x) seven (7) plastic blaster units, approved in 2009 for construction:
 - (1) one (1) unit, identified as BLA067, with a maximum capacity of 108 lb/hr blast media, with a maximum process weight rate of 1020 lb/hr, and controlled by baghouse DUC-081, exhausting indoors;
 - (2) three (3) units, identified as BLA086, BLA087, and BLA088, each with a maximum capacity of 108 lb/hr blast media, each with a maximum process weight rate of 1020 lb/hr, and each controlled by baghouse DUC-081, exhausting indoors;
 - (3) one (1) unit, identified as BLA089, with a maximum capacity of 108 lb/hr blast media, with a maximum process weight rate of 1020 lb/hr, and controlled by baghouse, exhausting indoors;
 - (4) one (1) unit, identified as BLA090, with a maximum capacity of 108 lb/hr blast media, with a maximum process weight rate of 1020 lb/hr, and controlled by baghouse BLA090, exhausting indoors; and

- (5) one (1) unit, identified as BLA091, with a maximum capacity of 108 lb/hr blast media, with a maximum process weight rate of 1020 lb/hr, and controlled by baghouse DUC-083, exhausting indoors.
- (y) three (3) steel shot blaster units, approved in 2009 for construction:
 - (1) two (2) steel shot blast units, identified as BLA084 and BLA026, each with a maximum capacity of 1080 lb/hr blast media, each with a maximum process weight rate of 1200 lb/hr. Each unit controlled by baghouse DUC-081, exhausting indoors;
 - (2) one (1) steel shot blast units, identified as BLA085, with a maximum capacity of 1080 lb/hr blast media, with a maximum process weight rate of 1200 lb/hr, and controlled by baghouse BLA-085, exhausting indoors.

A.3 Insignificant Activities [326 IAC 2-7-1(21)][326 IAC 2-7-4(c)][326 IAC 2-7-5(14)]

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

- (a) one (1) air atomization paint spray booth, approved in 2006 for construction, 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]
- (b) seven (7) natural gas fired reciprocating internal combustion engines, identified as GTS001 through GTS005, GTS007, and GTS011, each with a rated heat input of 0.088 MMBtu/hr and a rated output of 12.57 HP; [326 IAC 2-2]
- (c) one (1) aluminum oxide abrasive blasting unit, identified as BLA-065, approved in 2006 for construction, equipped with a baghouse for particulate control, identified as DUC-084, exhausting inside the building, capacity: 315 pounds of abrasive per hour; [326 IAC 6.5-1-2]
- (d) two (2) armex empire blasting units, identified as BLA-063 and BLA-066, approved in 2006 for construction, each equipped with a baghouse for particulate control, identified as DUC-081, respectively, exhausting inside the building, capacity: 12.5 pounds of abrasive per hour, each; [326 IAC 6.5-1-2]
- (e) one (1) armex empire blasting unit, identified as BLA-069, approved in 2006 for construction, equipped with a baghouse for particulate control, identified as DUC-084, exhausting inside the building, capacity: 12.5 pounds of abrasive per hour; [326 IAC 6.5-1-2]
- (f) two (2) steel shot peener units, identified as BLA-019 and BLA-068, approved in 2006 for construction, each equipped with a baghouse for particulate control, identified as DUC-082, respectively, exhausting inside the building, capacity: 600 pounds of abrasive per hour, each; [326 IAC 6.5-1-2]
- (g) four (4) sodium bicarbonate blast cabinets, identified as BLA031, BLA032, BLA034, and BLA042, approved in 2006 for construction, controlled by a dust collector, identified as DUC-083; [326 IAC 6.5-1-2]
- (h) one (1) abrasive blaster using coal slag (Black Beauty) media, identified as BLA008, approved in 2006 for construction, controlled by a dust collector, identified as DUC-083; [326 IAC 6.5-1-2]
- (i) one (1) abrasive blaster using coal slag (Black Beauty) media, identified as BLA041, approved in 2006 for construction, controlled by a dust collector, identified as DUC-084; [326 IAC 6.5-1-2]

- (j) one (1) soda blasting unit, approved in 2009 for construction, identified as BLA064, with a maximum capacity of 12.5 lb/hr blast media, with a maximum process weight rate of 300 lb/hr, and controlled by baghouse DUC-084; [326 IAC 6.5-1-2]
 - (k) 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]
 - (l) 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]
 - (m) 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]
 - (n) 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]
 - (o) five (5) baghouses, identified as DUC003, DUC015, and DUC021, 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]
 - (p) two (2) baghouses (ID Nos. DUC006 and DUC-081), 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]
 - (q) one (1) sodium bicarbonate blast cabinet, identified as BLA033, approved in 2006 for construction, controlled by a dust collector, identified as DUC-082; [326 IAC 6.5-1-2]
 - (r) A petroleum fuel other than gasoline dispensing facility, having a storage tank capacity less than or equal to ten thousand five hundred (10,500) gallons, and dispensing three thousand five hundred (3,500) gallons per day or less.
 - (s) Activities associated with emergencies, including emergency diesel generators not exceeding one thousand six hundred (1,600) horsepower.
 - (1) One (1) emergency diesel generator, approved in 2012 for construction, identified as UPS-027, with a maximum heat output of 227 horsepower.
- Under NSPS, Subpart IIII, this unit is considered to be an affected facility. Under NESHAP, Subpart ZZZZ, this unit is considered to be an affected facility.
- (t) An emission unit or activity whose potential uncontrolled VOC emissions are less than three (3) pounds per hour or fifteen (15) pounds per day: GP NR final wash operations.

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, T037-26692-00089, 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] [IC 13-17-12]

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. 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) A certification required by this permit meets the requirements of 326 IAC 2-7-6(1) if:
- (1) it contains a certification by a "responsible official" as defined by 326 IAC 2-7-1(34), and

- (2) the certification states that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.
- (b) The Permittee may use the attached Certification Form, or its equivalent 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 and Enforcement 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 a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

B.10 Preventive Maintenance Plan [326 IAC 2-7-5(12)][326 IAC 1-6-3]

- (a) A Preventive Maintenance Plan meets the requirements of 326 IAC 1-6-3 if it includes, at a minimum:

- (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.

The Permittee shall implement the PMPs.

- (b) If required by specific condition(s) in Section D of this permit where no PMP was previously required, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMPs) no later than ninety (90) days after issuance of this permit or ninety (90) days after initial start-up, whichever is later, including the following information on each facility:

- (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;
- (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and
- (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

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

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

The PMP extension notification does not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

The Permittee shall implement the PMPs.

- (c) A copy of the PMPs shall be submitted to IDEM, OAQ upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or is the primary contributor to an exceedance of any limitation on emissions. The PMPs and their submittal do not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).
- (d) To the extent the Permittee is required by 40 CFR Part 60/63 to have an Operation Maintenance, and Monitoring (OMM) Plan for a unit, such Plan is deemed to satisfy the PMP requirements of 326 IAC 1-6-3 for that unit.

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

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

defense of an emergency is demonstrated through properly signed, contemporaneous operating logs or other relevant evidence that describe the following:

- (1) An emergency occurred and the Permittee can, to the extent possible, identify the causes of the emergency;
- (2) The permitted facility was at the time being properly operated;
- (3) During the period of an emergency, the Permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards or other requirements in this permit;
- (4) For each emergency lasting one (1) hour or more, the Permittee notified IDEM, OAQ, or 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 and Enforcement Branch), or
Telephone Number: 317-233-0178 (ask for Office of Air Quality, Compliance and Enforcement Branch)
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 and Enforcement 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 a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

- (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)(8) 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.

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 T037-26692-00089 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 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 a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).
- (b) This permit shall be reopened and revised under any of the circumstances listed in IC 13-15-7-2 or if IDEM, OAQ determines any of the following:
 - (1) That this permit contains a material mistake.
 - (2) That inaccurate statements were made in establishing the emissions standards or other terms or conditions.
 - (3) That this permit must be revised or revoked to assure compliance with an applicable requirement. [326 IAC 2-7-9(a)(3)]
- (c) Proceedings by IDEM, OAQ to reopen and revise this permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of this permit for which cause to reopen exists. Such reopening and revision shall be made as expeditiously as practicable. [326 IAC 2-7-9(b)]
- (d) The reopening and revision of this permit, under 326 IAC 2-7-9(a), shall not be initiated before notice of such intent is provided to the Permittee by IDEM, OAQ at least thirty (30) days in

advance of the date this permit is to be reopened, except that IDEM, OAQ may provide a shorter time period in the case of an emergency. [326 IAC 2-7-9(c)]

B.16 Permit Renewal [326 IAC 2-7-3][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 a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

Request for renewal shall be submitted to:

Indiana Department of Environmental Management
Permit Administration and Support Section, 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, pursuant to 326 IAC 2-7-4(a)(2)(D), in writing by IDEM, OAQ any additional information identified as being needed to process the application.

B.17 Permit Amendment or Modification [326 IAC 2-7-11][326 IAC 2-7-12]

- (a) Permit amendments and modifications are governed by the requirements of 326 IAC 2-7-11 or 326 IAC 2-7-12 whenever the Permittee seeks to amend or modify this permit.
- (b) Any application requesting an amendment or modification of this permit shall be submitted to:
- Indiana Department of Environmental Management
Permit Administration and Support Section, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251
- Any such application does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).
- (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.18 Permit Revision Under Economic Incentives and Other Programs
[326 IAC 2-7-5(8)][326 IAC 2-7-12(b)(2)]

- (a) No Part 70 permit revision or notice shall be required under any approved economic incentives, marketable Part 70 permits, emissions trading, and other similar programs or processes for changes that are provided for in a Part 70 permit.
- (b) Notwithstanding 326 IAC 2-7-12(b)(1) and 326 IAC 2-7-12(c)(1), minor Part 70 permit modification procedures may be used for Part 70 modifications involving the use of economic incentives, marketable Part 70 permits, emissions trading, and other similar approaches to the extent that such minor Part 70 permit modification procedures are explicitly provided for in the applicable State Implementation Plan (SIP) or in applicable requirements promulgated or approved by the U.S. EPA.

B.19 Operational Flexibility [326 IAC 2-7-20][326 IAC 2-7-10.5]

- (a) The Permittee may make any change or changes at the source that are described in 326 IAC 2-7-20(b) or (c) 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
Permit Administration and Support Section, 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)(1) and (c)(1). 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) and (c)(1).

- (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 a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

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

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

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

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

- (a) Enter upon the Permittee's premises where a Part 70 source is located, or emissions related activity is conducted, or where records must be kept under the conditions of this permit;
- (b) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, have access to and copy any records that must be kept under the conditions of this permit;
- (c) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, inspect any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit;
- (d) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, sample or monitor substances or parameters for the purpose of assuring compliance with this permit or applicable requirements; and
- (e) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of assuring compliance with this permit or applicable requirements.

B.22 Transfer of Ownership or Operational Control [326 IAC 2-7-11]

- (a) The Permittee must comply with the requirements of 326 IAC 2-7-11 whenever the Permittee seeks to change the ownership or operational control of the source and no other change in the permit is necessary.
- (b) Any application requesting a change in the ownership or operational control of the source shall contain a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new Permittee. The application shall be submitted to:

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

Any such application does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

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

B.23 Annual Fee Payment [326 IAC 2-7-19] [326 IAC 2-7-5(7)][326 IAC 2-1.1-7]

- (a) The Permittee shall pay annual fees to IDEM, OAQ within thirty (30) calendar days of receipt of a billing. Pursuant to 326 IAC 2-7-19(b), if the Permittee does not receive a bill from IDEM, OAQ the applicable fee is due April 1 of each year.
- (b) Except as provided in 326 IAC 2-7-19(e), failure to pay may result in administrative enforcement action or revocation of this permit.
- (c) The Permittee may call the following telephone numbers: 1-800-451-6027 or 317-233-4230 (ask for OAQ, Billing, Licensing, and Training Section), to determine the appropriate permit fee.

B.24 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 5-1-1 (Applicability) and 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 except as provided in 326 IAC 4-2 or in this permit. The Permittee shall not operate a refuse incinerator or refuse burning equipment except as provided in 326 IAC 9-1-2 or in this permit.

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 IAC 1-7-4, 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
Compliance and Enforcement Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 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 that meets the requirements of 326 IAC 2-7-6(1) by a "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 Licensed 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 Licensed Asbestos Inspector to thoroughly inspect the affected portion of the facility for the presence of asbestos. The requirement to use an Indiana Licensed Asbestos inspector is not federally enforceable.

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

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

- (a) For performance testing required by this permit, a test protocol, except as provided elsewhere in this permit, shall be submitted to:

Indiana Department of Environmental Management
Compliance and Enforcement Branch, 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 a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

- (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 a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).
- (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, for all monitoring requirements not already legally required, the Permittee shall be allowed up to ninety (90) days from the date of permit issuance or of initial start-up, whichever is later, to begin such monitoring. If due to circumstances beyond the Permittee's control, any monitoring equipment required by this permit cannot be installed and operated no later than ninety (90) days after permit issuance or the date of initial startup, whichever is later, the Permittee may extend the compliance schedule related to the equipment for an additional ninety (90) days provided the Permittee notifies:

Indiana Department of Environmental Management
Compliance and Enforcement Branch, Office of Air Quality
100 North Senate Avenue
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 a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

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

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

- (a) The Permittee shall maintain the most recently submitted written emergency reduction plans (ERPs) consistent with safe operating procedures.
- (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.12 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.13 Response to Excursions or Exceedances [326 IAC 2-7-5] [326 IAC 2-7-6]

Upon detecting an excursion where a response step is required by the D Section or an exceedance of a limitation in this permit:

- (a) The Permittee shall take reasonable response steps to 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 excess emissions.
- (b) The response shall include minimizing the period of any startup, shutdown or malfunction. The response may include, but is not limited to, the following:
 - (1) initial inspection and evaluation;
 - (2) recording that operations returned or are returning 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 normal or usual manner of operation.
- (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 record the reasonable response steps taken.

C.14 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 submit a description of its response actions to IDEM, OAQ, no later than seventy-five (75) days after the date of the test.
- (b) A retest to demonstrate compliance shall be performed no later than one hundred eighty (180) days after the date of the test. Should the Permittee demonstrate to IDEM, OAQ that retesting in one hundred eighty (180) 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 a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

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

C.15 Emission Statement [326 IAC 2-7-5(3)(C)(iii)][326 IAC 2-7-5(7)][326 IAC 2-7-19(c)][326 IAC 2-6]

Pursuant to 326 IAC 2-6-3(b)(3), starting in 2006 and every three (3) years thereafter, the Permittee shall submit by July 1 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 a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

C.16 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. Support information includes the following:
 - (AA) All calibration and maintenance records.
 - (BB) All original strip chart recordings for continuous monitoring instrumentation.
 - (CC) Copies of all reports required by the Part 70 permit.Records of required monitoring information include the following:
 - (AA) The date, place, as defined in this permit, and time of sampling or measurements.
 - (BB) The dates analyses were performed.
 - (CC) The company or entity that performed the analyses.
 - (DD) The analytical techniques or methods used.

(EE) The results of such analyses.

(FF) The operating conditions as existing at the time of sampling or measurement.

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, for all record keeping requirements not already legally required, the Permittee shall be allowed up to ninety (90) days from the date of permit issuance or the date of initial start-up, whichever is later, to begin such record keeping.

C.17 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. Proper notice submittal under Section B –Emergency Provisions satisfies the reporting requirements of this paragraph. Any deviation from permit requirements, the date(s) of each deviation, the cause of the deviation, and the response steps taken must be reported except that 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. This report shall be submitted not later than thirty (30) days after the end of the reporting period. The Quarterly Deviation and Compliance Monitoring Report shall include a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34). A deviation is an exceedance of a permit limitation or a failure to comply with a requirement of the permit.
- (b) The address for report submittal is:
- Indiana Department of Environmental Management
Compliance and Enforcement Branch, 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) 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.18 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 applicable standards for recycling and emissions reduction.

SECTION D.1 EMISSIONS UNIT OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(14)]: Air Atomization Paint Spray Booths

- (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;

Insignificant Activity:

- (a) 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, the VOC PTE of the Engine, Stern Drive, Diesel Engine or Transmission Booths shall not exceed 25 tons per year.
- (b) Pursuant to 037-22439-00080, issued on March 23, 2006 the VOC actual usage of booths PTB-007 and PTB012 shall be less than 15 lbs/day.

D.1.4 PSD Minor Limitation Volatile Organic Compounds (VOC) [326 IAC 2-2]

The Permittee shall comply with the following:

The total VOC input to the paint booths, identified as Engine, Stern Drive, Radiator, Diesel Engine, Transmission, PTB-007, and PTB012, shall not exceed 60 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

Compliance with the above limit, combined with Condition D.2.1 and the potential to emit VOC from other emission units at the source, shall limit the VOC from the entire source to less than 250 tons per twelve (12) consecutive month period and render 326 IAC 2-2 not applicable.

D.1.5 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, PTB-007, and PTB012) shall be limited to 0.03 grains per dry standard cubic foot of exhaust air.

D.1.6 NESHAP Minor Limit [40 CFR Part 63, Subpart A][40 CFR Part 63, Subpart M] [326 IAC 20-1] [326 IAC 20-80]

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 the above HAP limits in conjunction with the potential to emit HAPs from other emission units at the source, shall limit the HAP emissions from the entire source to less than 10 tons per twelve (12) consecutive month period for a single HAP and less than 25 tons per twelve (12) consecutive month period for combined HAPs and render 40 CFR 63, Subpart M not applicable.

D.1.7 Preventive Maintenance Plan [326 IAC 2-7-5(12)]

A Preventive Maintenance Plan is required for these facilities and their control devices. Section B - Preventive Maintenance Plan contains the Permittee's obligation with regard to the preventive maintenance plan required by this condition.

Compliance Determination Requirements

D.1.8 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, D.1.3, D.1.4, and D.1.6 shall be determined pursuant to 326 IAC 8-1-4(a)(3) and 326 IAC 8-1-2(a) by preparing or obtaining from the manufacturer the copies of the "as supplied" and "as applied" VOC data sheets. IDEM, OAQ reserves the authority to determine compliance using Method 24 in conjunction with the analytical procedures specified in 326 IAC 8-1-4.

D.1.9 Particulate Control

In order to comply with Condition D.1.5 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.1.10 Monitoring

- (a) Daily inspections shall be performed to verify the placement, integrity and particle loading of the filters. To monitor the performance of the dry filters, weekly observations shall be made of the overspray from the surface coating booth stacks (PTB001 - PTB005, 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 a reasonable response. Section C - Response to Excursions or Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition. Failure to take response steps 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 a reasonable response. Section C - Response to Excursions or Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition. Failure to take response steps 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.1.11 Record Keeping Requirements

- (a) To document the compliance status with Conditions D.1.1, D.1.2, D.1.3, D.1.4 and D.1.6, 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, D.1.2, D.1.3, D.1.4 and D.1.6. Records necessary to demonstrate compliance shall be available within 30 days of the end of each compliance period.
- (1) The Permittee shall maintain records of the VOC usage.
 - (2) The VOC and HAP content of each coating material and solvent used.
 - (3) 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.
 - (4) The cleanup solvent usage for each month.
 - (5) The total VOC and total single and combined HAP usage for each month.
- (b) To document the compliance status with Condition D.1.10, the Permittee shall maintain a log of weekly overspray observations, daily and monthly inspections.
- (c) Section C - General Record Keeping Requirements contains the Permittee's obligation with regard to the records required by this condition.

D.1.12 Reporting Requirements

A quarterly summary of the information to document the compliance status with Conditions D.1.4 and D.1.6 shall be submitted not later than thirty (30) days after the end of the quarter being reported. Section C - General Reporting contains the Permittee's obligation with regard to the reporting required by this condition. The report submitted by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

SECTION D.2 EMISSIONS UNIT OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(14)]: Reciprocating Internal Combustion Engines

- (h) 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);
- (i) 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;
- (j) one (1) natural gas fired reciprocating internal combustion engine, identified as DYN033, with a rated heat input of 1.75 MMBtu/hr and a rated output of 250 HP;
- (k) one (1) natural gas fired reciprocating internal combustion engine, identified as DYN008, using gasoline as back-up fuel, with a rated heat input of 3.5 MMBtu/hr and a rated output of 500 HP;
- (l) 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, approved in 2006 for construction, 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, approved in 2006 for construction, with a rated heat input of 3.5 MMBtu/hr and a rated output of 500 HP;
- (o) four (4) natural gas controlled pyrolysis cleaning furnaces, approved in 2008 for construction, identified as OVE001, OVE002, OVE003, and OVE004, each with a maximum throughput of 4,000 pounds of equipment and 30 pounds of combustible material per 8-hour cycle, each with a total maximum heat input capacity of 0.43 MMBtu/hr, each using a natural gas afterburner for control, each exhausting through a stack;
 - (1) one (1) natural gas controlled pyrolysis cleaning furnaces, identified as OVE0013 with a maximum throughput of 6,000 pounds of equipment and 30 pounds of combustible material per 8-hour cycle, and with a total maximum heat input capacity of 0.72 MMBtu/hr;
 - (2) one (1) natural gas controlled pyrolysis cleaning furnaces, identified as OVE0014 with a maximum throughput of 4,000 pounds of equipment and 30 pounds of combustible material per 8-hour cycle, and with a total maximum heat input capacity of 0.43 MMBtu/hr;
 - (3) one (1) natural gas controlled pyrolysis cleaning furnaces, identified as OVE0015 with a maximum throughput of 2,000 pounds of equipment and 30 pounds of combustible material per 8-hour cycle, and with a total maximum heat input capacity of 0.43 MMBtu/hr;
- (p) three (3) natural gas controlled pyrolysis cleaning furnaces, approved in 2009 for construction, each unit using a natural gas afterburner for control, and each exhausting through a stack:
 - (1) one (1) natural gas controlled pyrolysis cleaning furnaces, identified as OVE0013 with a maximum throughput of 6,000 pounds of equipment and 30 pounds of combustible material per 8-hour cycle, and with a total maximum heat input capacity of 0.72 MMBtu/hr;
 - (2) one (1) natural gas controlled pyrolysis cleaning furnaces, identified as OVE0014 with a maximum throughput of 4,000 pounds of equipment and 30 pounds of combustible material per 8-hour cycle, and with a total maximum heat input capacity of 0.43 MMBtu/hr;
 - (3) one (1) natural gas controlled pyrolysis cleaning furnaces, identified as OVE0015 with a maximum throughput of 2,000 pounds of equipment and 30 pounds of combustible material per 8-hour cycle, and with a total maximum heat input capacity of 0.43 MMBtu/hr;
- (q) One (1) natural gas controlled pyrolysis cleaning furnace, approved in 2012 for construction, identified as OVE016, with a maximum throughput of 4,000 pounds of equipment and 30 pounds of combustible material per 8-hour cycle, with a total maximum heat input capacity of 0.72 MMBtu/hr, using a natural gas afterburner for control, exhausting through a stack.

Insignificant Activities:

- (a) one (1) air atomization paint spray booth, approved in 2006 for construction, 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]
- (b) seven (7) natural gas fired reciprocating internal combustion engines, identified as GTS001 through GTS005, GTS007, and GTS011, 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 PSD Minor Limitations - Volatile Organic Compounds (VOC), Nitrogen Oxides (NO_x) and Carbon Monoxide (CO) [326 IAC 2-2]

The source shall limit fuel usage for reciprocating internal combustion engines and controlled pyrolysis cleaning furnaces as follows:

- (a) Natural gas usage for all reciprocating internal combustion engines and controlled pyrolysis cleaning furnaces shall not exceed 119.7 million standard cubic feet per 12 consecutive month period with compliance determined at the end of each month.
- (b) #2 diesel fuel usage for all reciprocating internal combustion engines shall not exceed 50,000 gallons per 12 consecutive month period with compliance determined at the end of each month.
- (c) Gasoline usage for all reciprocating internal combustion engines shall not exceed 10,000 gallons per 12 consecutive month period with compliance determined at the end of each month.

Compliance with these fuel usage limits, combined with Condition D.1.4 and the potential to emit VOC, NO_x, and CO from other emission units at the source, shall limit VOC, NO_x, and CO from the entire source to less than 250 tons per twelve (12) consecutive month period each and render 326 IAC 2-2 (PSD) not applicable.

D.2.2 Incinerator Requirements [326 IAC 4-2]

Pursuant to 326 IAC 4-2, the eight (8) controlled pyrolysis cleaning furnaces, identified as OVE001, OVE002, OVE003, OVE004, OVE013, OVE014, OVE015, and OVE016 shall:

- (1) Consist of primary and secondary chambers or equivalent;
- (2) Be equipped with a primary burner unless burning wood products;
- (3) Comply with 326 IAC 5-1 and 326 IAC 2;
- (4) Be maintained properly as specified by the manufacturer and approved by the commissioner;
- (5) Be operated according to the manufacturer's recommendations and only burn waste approved by the commissioner;
- (6) Comply with other state and/or local rules or ordinances regarding installation and operation of incinerators;

- (7) Be operated so that emissions of hazardous material including but not limited to viable pathogenic bacteria, dangerous chemicals or gases, or noxious odors are prevented; and
- (8) Not create a nuisance or fire hazard.

If any of the above requirements are not met, burning shall be terminated immediately.

D.2.3 Particulate [326 IAC 6.5-1-2]

- (a) Pursuant to 326 IAC 6.5-1-2(a), particulate matter emissions from the eight (8) controlled pyrolysis cleaning furnaces, identified as OVE001, OVE002, OVE003, OVE004, OVE013, OVE014, OVE015, and OVE016, shall each not exceed 0.03 grains per dry standard cubic foot.
- (b) Pursuant to 326 IAC 6.5-1-2(b)(3), particulate matter emissions from the natural gas fired reciprocating internal combustion engines, identified as ACO008 through ACO011, CGN001 through CGN011, DYN033, DYN008, and DYN028, shall each not exceed 0.01 grains per dry standard cubic foot.
- (c) Pursuant to 326 IAC 6.5-1-2(b)(2), particulate matter emissions from the #2 diesel fuel fired reciprocating internal combustion engines, identified as DYN001, DYN002, DYN003, DYN056, DYN057, GTS001 through GTS005, GTS007, and GTS011, shall each not exceed 0.15 pound per MMBtu.
- (d) Pursuant to 326 IAC 6.5-1-2(a)(2), particulate matter emissions from the natural gas fired reciprocating internal combustion engine, identified as DYN028, shall each not exceed 0.15 pound per MMBtu when combusting gasoline.

D.2.4 Preventive Maintenance Plan [326 IAC 2-7-5(12)]

A Preventive Maintenance Plan is required for these facilities and their control devices. Section B - Preventive Maintenance Plan contains the Permittee's obligation with regard to the preventive maintenance plan required by this condition.

Compliance Determination Requirements

D.2.5 Particulate Matter

In order to comply with Conditions D.2.3 the afterburners for particulate control shall be in operation and control emissions from the controlled pyrolysis cleaning furnaces (OVE001-OVE004 and OVE013-OVE016) at all times the controlled pyrolysis cleaning furnaces are in operation.

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

D.2.6 Record Keeping Requirements

- (a) To document the compliance status with Condition D.2.1, the Permittee shall maintain records of the monthly natural gas, #2 diesel fuel and gasoline usage by all reciprocating internal combustion engines and controlled pyrolysis cleaning furnaces at the source.
- (b) Section C - General Record Keeping Requirements contains the Permittee's obligation with regard to the records required by this condition.

D.2.7 Reporting Requirements

A quarterly summary of the information to document the compliance status with Condition D.2.1 shall be submitted not later than thirty (30) days after the end of the quarter being reported. Section C - General Reporting contains the Permittee's obligation with regard to the reporting required by this condition. The report submitted by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

SECTION D.3 EMISSIONS UNIT OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(14)]: Grinding and Machining Operations

- (q) two (2) baghouses, identified as DUC-081 and DUC-083, approved in 2012 for construction, 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 in 2008 for construction, identified as BLA-056, with a maximum capacity of 12.5 lb/hr of blast media, controlled by baghouse DUC-081, exhausting indoors only;
 - (2) one (1) soda blasting unit, approved in 2008 for construction, identified as BLA-057, with a maximum capacity of 12.5 lb/hr of blast media, controlled by baghouse DUC-083, exhausting indoors only;
- (s) one (1) soda blasting unit, identified as BLA-037, approved in 2003 for construction, equipped with a baghouse for particulate control, identified as DUC-084, exhausting inside the building, capacity: 60 units per hour;
- (t) one (1) plastic bead abrasive blasting unit, identified as BLA-045, approved in 2006 for construction, equipped with a baghouse for particulate control, identified as BLA-045, exhausting inside the building, capacity: 116 pounds of abrasive per hour;
- (u) one (1) plastic bead blast unit, approved in 2008 for construction, identified as BLA-073, with a maximum capacity of 108 lb/hr of blast media, controlled by baghouse DUC-082, exhausting indoors only;
- (v) four (4) pneumatic plastic bead blasting units, approved in 2008 for construction, identified as BLA074, BLA076, BLA078, and BLA080, each with a maximum capacity of 108 lb/hr blast media, each with a maximum process weight rate of 1020 lb/hr, each using a dust collector for control, identified as DUC-083, DUC-081, DUC-082, and DUC-082, respectively, and each exhausting indoors;
- (w) four (4) mechanically powered steel shot blasting units, approved in 2008 for construction, identified as BLA075, BLA077, BLA079, and BLA081, each with a maximum capacity of 800 lb/hr blast media, each with a maximum process weight rate of 1200 lb/hr, each using a baghouse for control, identified as DUC-083, BLA-077, DUC-082, and DUC-081, respectively, and each exhausting indoors;
- (x) seven (7) plastic blaster units, approved in 2009 for construction:
 - (1) one (1) unit, identified as BLA067, with a maximum capacity of 108 lb/hr blast media, with a maximum process weight rate of 1020 lb/hr, and controlled by baghouse DUC-081, exhausting indoors;
 - (2) three (3) units, identified as BLA086, BLA087, and BLA088, each with a maximum capacity of 108 lb/hr blast media, each with a maximum process weight rate of 1020 lb/hr, and each controlled by baghouse DUC-081, exhausting indoors;
 - (3) one (1) unit, identified as BLA089, with a maximum capacity of 108 lb/hr blast media, with a maximum process weight rate of 1020 lb/hr, and controlled by baghouse DUC-082, exhausting indoors;
 - (4) one (1) unit, identified as BLA090, with a maximum capacity of 108 lb/hr blast media, with a maximum process weight rate of 1020 lb/hr, and controlled by baghouse BLA090, exhausting indoors;

- (5) one (1) unit, identified as BLA091, with a maximum capacity of 108 lb/hr blast media, with a maximum process weight rate of 1020 lb/hr, and controlled by baghouse DUC-083, exhausting indoors.
- (y) three (3) steel shot blaster units, approved in 2009 for construction:
 - (1) two (2) steel shot blast units, identified as BLA084 and BLA026, each with a maximum capacity of 1080 lb/hr blast media, each with a maximum process weight rate of 1200 lb/hr. Each unit controlled by baghouse DUC-081, exhausting indoors;
 - (2) one (1) steel shot blast units, identified as BLA085, with a maximum capacity of 1080 lb/hr blast media, with a maximum process weight rate of 1200 lb/hr, and controlled by baghouse BLA-085, exhausting indoors.

Insignificant Activities:

- (c) one (1) aluminum oxide abrasive blasting unit, identified as BLA-065, approved in 2006 for construction, equipped with a baghouse for particulate control, identified as DUC-084, exhausting inside the building, capacity: 315 pounds of abrasive per hour; [326 IAC 6.5-1-2]
- (d) two (2) armex empire blasting units, identified as BLA-063 and BLA-066, approved in 2006 for construction, each equipped with a baghouse for particulate control, identified as DUC-081, respectively, exhausting inside the building, capacity: 12.5 pounds of abrasive per hour, each; [326 IAC 6.5-1-2]
- (e) one (1) armex empire blasting unit, identified as BLA-069, approved in 2006 for construction, equipped with a baghouse for particulate control, identified as DUC-084, exhausting inside the building, capacity: 12.5 pounds of abrasive per hour; [326 IAC 6.5-1-2]
- (f) two (2) steel shot peener units, identified as BLA-019 and BLA-068, approved in 2006 for construction, each equipped with a baghouse for particulate control, identified as DUC-082, respectively, exhausting inside the building, capacity: 600 pounds of abrasive per hour, each; [326 IAC 6.5-1-2]
- (g) four (4) sodium bicarbonate blast cabinets, identified as BLA031, BLA032, BLA034, and BLA042, approved in 2006 for construction, controlled by a dust collector, identified as DUC-083; [326 IAC 6.5-1-2]
- (h) one (1) abrasive blaster using coal slag (Black Beauty) media, identified as BLA008, approved in 2006 for construction, controlled by a dust collector, identified as DUC-083; [326 IAC 6.5-1-2]
- (i) one (1) abrasive blaster using coal slag (Black Beauty) media, identified as BLA041, approved in 2006 for construction, controlled by a dust collector, identified as DUC-084; [326 IAC 6.5-1-2]
- (j) one (1) soda blasting unit, approved in 2009 for construction, identified as BLA064, with a maximum capacity of 12.5 lb/hr blast media, with a maximum process weight rate of 300 lb/hr, and controlled by baghouse DUC-084; [326 IAC 6.5-1-2]
- (n) 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]
- (o) five (5) baghouses, identified as DUC003, DUC015, and DUC021, 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]

- (p) two (2) baghouses (ID Nos. DUC006 and DUC-081), 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]
- (q) one (1) sodium bicarbonate blast cabinet, identified as BLA033, approved in 2006 for construction, controlled by a dust collector, identified as DUC-082; [326 IAC 6.5-1-2]

Summary Table	
Baghouse/Dust collector ID	Emissions unit
DUC-081	BLA-056, BLA076, BLA081, BLA067, BLA086, BLA087, BLA088, BLA084, BLA026, BLA-100, BLA-063, BLA-066
DUC-082	BLA-073, BLA078, BLA080, BLA079, BLA089, BLA033, BLA-046, BLA-098, BLA-099, BLA-019, BLA-068
DUC-083	BLA-057, BLA074, BLA075, BLA091, BLA031, BLA032, BLA034, BLA042, BLA008, BLA-061, BLA-105, BLA-083, BLA-097, BLA-094
DUC-084	BLA-037, BLA-065, BLA-069, BLA041, BLA064
BLA-085	BLA085
BLA-077	BLA077
BLA-090	BLA090
BLA-045	BLA045
DUC-003	BLA-018
DUC-006	BLA-020
BLA007 BLA009 BLA011	Sandblasting
DUC003 DUC015 DUC021	Grinding, Sandblasting, Machining

(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 PSD Minor Particulate Limitations [326 IAC 2-2]

In order to render the requirements of 326 IAC 2-2 not applicable for PM, PM10, and PM2.5, the Permittee shall comply with the following:

Baghouse ID	Emission Unit ID	PM Limit (lb/hr)	PM10 Limit (lb/hr)	PM2.5 Limit (lb/hr)
BLA007	sandblasting	0.16	0.16	0.16
BLA009	sandblasting	0.51	0.51	0.51
BLA011	sandblasting	0.82	0.82	0.82
DUC003	BLA-018	2.39	2.39	2.39
DUC006	BLA-020	1.10	1.10	1.10
DUC015	grinding, sandblasting, machining	0.25	0.25	0.25
DUC021	grinding, sandblasting, machining	0.04	0.04	0.04
DUC-081	BLA-056, BLA076, BLA081, BLA067, BLA086, BLA087, BLA088, BLA084, BLA026, BLA-100, BLA-063, BLA-066	2.30	2.30	2.30
DUC-082	BLA-073, BLA078, BLA080, BLA079, BLA089, BLA033, BLA-046, BLA-098, BLA-099, BLA-019, BLA-068	2.30	2.30	2.30
DUC-083	BLA-057, BLA074, BLA075, BLA091, BLA031, BLA032, BLA034, BLA042, BLA008, BLA-061, BLA-105, BLA-083, BLA-097, BLA-094	2.30	2.30	2.30
DUC-084	BLA-037, BLA-065, BLA-069, BLA041, BLA064	2.30	2.30	2.30

Compliance with the above PM, PM10, and PM2.5 limits in conjunction with the PM, PM10, and PM2.5 PTE emissions from all other emission units shall limit the PM, PM10, and PM_{2.5} source wide emissions to less than 250 tons per twelve (12) consecutive month period, each. Therefore, the requirements of 326 IAC 2-2 (PSD) are rendered not applicable.

D.3.2 Particulate Matter (PM) [326 IAC 6.5-1-2]

Pursuant to 326 IAC 6.5-1-2(a), particulate matter emissions from the sanding, grinding and machining operations, and blasting units shall each not exceed 0.03 grains per dry standard cubic foot.

D.3.3 Opacity [326 IAC 2-7-10.5]

Pursuant to Significant Permit Modification No. 037-17110-00089, issued on July 11, 2003 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, and controlled by DUC-084, when venting inside the building.

D.3.4 Preventive Maintenance Plan [326 IAC 2-7-5(12)]

A Preventive Maintenance Plan for these facilities and their control devices. Section B - Preventive

Maintenance Plan contains the Permittee's obligation with regard to the preventive maintenance plan required by this condition.

Compliance Determination Requirement

D.3.5 Particulate Control

- (a) In order to comply with Conditions D.3.1 and D.3.2 the baghouses for particulate control shall be in operation and control emissions from the emission units at all times that the emission units are in operation as listed in the table below:

Baghouse ID	Emission Unit ID
BLA007	sandblasting
BLA009	sandblasting
BLA011	sandblasting
DUC003	BLA-018
DUC006	BLA-020
DUC015	grinding, sandblasting, machining
DUC021	grinding, sandblasting, machining
DUC-081	BLA-056, BLA076, BLA081, BLA067, BLA086, BLA087, BLA088, BLA084, BLA026, BLA-100, BLA-063, BLA-066
DUC-082	BLA-073, BLA078, BLA080, BLA079, BLA089, BLA033, BLA-046, BLA-098, BLA-099, BLA-019, BLA-068
DUC-083	BLA-057, BLA074, BLA075, BLA091, BLA031, BLA032, BLA034, BLA042, BLA008, BLA-061, BLA-105, BLA-083, BLA-097, BLA-094
DUC-084	BLA-037, BLA-065, BLA-069, BLA041, BLA064
BLA-045	BLA045
BLA-085	BLA085
BLA-077	BLA077
BLA090	BLA090

- (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.

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

D.3.6 Parametric Monitoring

The Permittee shall record the pressure drop across all baghouse or dust collectors used in conjunction with each grinding and machining process, and each blasting unit at least once per day when the associated units are in operation when venting to the atmosphere. When for any one reading, the pressure drop across the baghouse is outside the normal range, the Permittee shall take a reasonable response. The normal range for these units is indicated in the table below unless a different upper-bound or lower-bound value for this range is determined during the latest stack test. Section C – Response to Excursions and Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps shall be considered a deviation from this permit.

Baghouse ID	Emission Unit ID	Pressure Drop Range ("H ₂ O)
BLA007	sandblasting	1.0 - 6.0
BLA009	sandblasting	1.0 - 6.0
BLA011	sandblasting	1.0 - 6.0
DUC003	BLA-018	1.0 - 6.0
DUC006	BLA-020	1.0 - 6.0
DUC015	grinding, sandblasting, machining	1.0 - 6.0
DUC021	grinding, sandblasting, machining	1.0 - 6.0
DUC-081	BLA-056, BLA076, BLA081, BLA067, BLA086, BLA087, BLA088, BLA084, BLA026, BLA- 100, BLA-063, BLA-066	2.0 - 5.0
DUC-082	BLA-073, BLA078, BLA080, BLA079, BLA089, BLA033, BLA- 046, BLA-098, BLA-099, BLA-019, BLA-068	2.0 - 5.0
DUC-083	BLA-057, BLA074, BLA075, BLA091, BLA031, BLA032, BLA034, BLA042, BLA008, BLA- 061, BLA-105, BLA-083, BLA-097, BLA-094	2.0 - 5.0
DUC-084	BLA-037, BLA-065, BLA-069, BLA041, BLA064	2.0 - 5.0
BLA-045	BLA045	1.0 - 6.0
BLA-085	BLA085	1.0 - 6.0
BLA-077	BLA077	1.0 - 6.0
BLA090	BLA090	1.0 - 6.0

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 or replaced at least once every six (6) months.

D.3.7 Baghouse Inspections

An inspection shall be performed semi-annually of all bags and dust collectors controlling each grinding and machining process and each blasting unit. All defective bags or cartridges shall be replaced.

D.3.8 Broken or Failed Bag Detection

- (a) For a single compartment baghouses 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.

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

D.3.9 Record Keeping Requirements

- (a) To document the compliance status with Condition D.3.6, the Permittee shall maintain a daily record of the pressure drop across the baghouse controlling the process. The Permittee shall include in its daily record when a pressure drop reading is not taken and the reason for the lack of a pressure drop reading (e.g. the process did not operate that day).
- (b) To document the compliance status with Condition D.3.7, the Permittee shall maintain records of the results of the inspections required under Condition D.3.7.
- (c) Section C - General Record Keeping Requirements contains the Permittee's obligation with regard to the records required by this condition.

SECTION D.4 EMISSIONS UNIT OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(14)]: Insignificant Activities

Insignificant Activities:

- (k) 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]
- (l) 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]
- (m) 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]
- (s) Activities associated with emergencies, including emergency diesel generators not exceeding one thousand six hundred (1,600) horsepower.
 - (1) One (1) emergency diesel generator, approved in 2012 for construction, identified as UPS-027, with a maximum heat output of 227 horsepower. [326 IAC 6.5-1-2]

Under NSPS, Subpart IIII, this unit is considered to be an affected facility. Under NESHAP, Subpart ZZZZ, this unit is considered to be an affected facility.

(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]

- (a) Pursuant to 326 IAC 6.5-1-2 (b)(3) (Particulate Matter Limitations Except Lake 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.
- (b) Pursuant to 326 IAC 6.5-1-2 (b)(2) (Particulate Matter Limitations Except Lake County) the PM from the 227 hp emergency diesel generator shall be limited to 0.15 pound per MMBtu.

D.4.2 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.4.3 Volatile Organic Compounds (VOC) [326 IAC 8-3-5]

- (a) Pursuant to 326 IAC 8-3-5(a) (Cold Cleaner Degreaser Operation and Control), for 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 (38°C) (one hundred degrees Fahrenheit (100°F)), then the drainage facility must be internal such that articles are enclosed under the cover while draining. The drainage facility may be external for applications where an internal type cannot fit into the cleaning system.
 - (3) Provide a permanent, conspicuous label which lists the operating requirements outlined in subsection (b).
 - (4) The solvent spray, if used, must be a solid, fluid stream and shall be applied at a pressure which does not cause excessive splashing.
 - (5) Equip the degreaser with one (1) of the following control devices if the solvent volatility is greater than four and three-tenths (4.3) kiloPascals (thirty-two (32) millimeters of mercury or six-tenths (0.6) pounds per square inch) measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F)), or if the solvent is heated to a temperature greater than forty-eight and nine-tenths degrees Celsius (48.9°C) (one hundred twenty degrees Fahrenheit (120°F)):
 - (A) A freeboard that attains a freeboard ratio of seventy-five hundredths (0.75) or greater.
 - (B) A water cover when solvent is used is insoluble in, and heavier than, water.
 - (C) Other systems of demonstrated equivalent control such as a refrigerated chiller of carbon adsorption. Such systems shall be submitted to the U.S. EPA as a SIP revision.
- (b) Pursuant to 326 IAC 8-3-5(b) (Cold Cleaner Degreaser Operation and Control), the owner or operator of a cold cleaning facility construction of which commenced after July 1, 1990, shall

ensure that the following operating requirements are met:

- (1) Close the cover whenever articles are not being handled in the degreaser.
- (2) Drain cleaned articles for at least fifteen (15) seconds or until dripping ceases.
- (3) Store waste solvent only in covered containers and prohibit the disposal or transfer of waste solvent in any manner in which greater than twenty percent (20%) of the waste solvent by weight could evaporate.

SECTION E.1 NEW SOURCE PERFORMANCE STANDARDS FOR STATIONARY COMPRESSION IGNITION INTERNAL COMBUSTION ENGINES [40 CFR 60, Subpart III]

Facility Description [326 IAC 2-7-5(14)]

(s) Activities associated with emergencies, including emergency diesel generators not exceeding one thousand six hundred (1,600) horsepower.

(1) One (1) emergency diesel generator, approved in 2012 for construction, identified as UPS-027, with a maximum heat output of 227 horsepower. [326 IAC 6.5-1-2]

Under NSPS, Subpart III, this unit is considered to be an affected facility. Under NESHAP, Subpart ZZZZ, this unit is considered to be an affected facility.

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

New Source Performance Standards (NSPSP) Requirements

E.1.1 General Provisions Relating to New Source Performance Standards [326 IAC 12-1] [40 CFR 60, Subpart A]

(a) The Permittee shall comply with the provisions of 40 CFR Part 60, Subpart A – General Provisions, which are incorporated by reference as 326 IAC 12, for the Industrial-Commercial-Institutional Steam Generating Units, as specified in 40 CFR 60, Subpart III in accordance with the schedule in 40 CFR 60, Subpart III.

(b) Pursuant to 40 CFR 60.19, the Permittee shall submit all required notifications and reports to:

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

E.1.2 New Source Performance Standards for Stationary Compression Ignition Internal Combustion Engines [40 CFR 60, Subpart III][326 IAC 12]

The Permittee shall comply with the following provisions of 40 CFR Part 60, Subpart III (included in its entirety as Attachment A), which are incorporated by reference as 326 IAC 12, for the Stationary Compression Ignition Internal Combustion Engines:

- (1) 40 CFR 60.4200 (a)(4), (c)
- (2) 40 CFR 60.4205 (b), (e)
- (3) 40 CFR 60.4206
- (4) 40 CFR 60.4207 (b)
- (5) 40 CFR 60.4208
- (6) 40 CFR 60.4209 (a)
- (7) 40 CFR 60.4211 (a), (c), (f), (g)(2)
- (8) 40 CFR 60.4212 except (d)
- (9) 40 CFR 60.4214 (b), (c)
- (10) 40 CFR 60.4218
- (11) 40 CFR 60.4219
- (12) Table 5
- (13) Table 8

SECTION E.2 NATIONAL EMISSION STANDARDS FOR HAZARDOUS AIR POLLUTANTS: STATIONARY RECIPROCATING INTERNAL COMBUSTION ENGINES [40 CFR 63, Subpart ZZZZ]

Facility Description [326 IAC 2-7-5(14)]

(s) Activities associated with emergencies, including emergency diesel generators not exceeding one thousand six hundred (1,600) horsepower.

(1) One (1) emergency diesel generator, approved in 2012 for construction, identified as UPS-027, with a maximum heat output of 227 horsepower. [326 IAC 6.5-1-2]

Under NSPS, Subpart IIII, this unit is considered to be an affected facility. Under NESHAP, Subpart ZZZZ, this unit is considered to be an affected facility.

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

National Emission Standards for Hazardous Air Pollutants (NESHAP) Requirements

E.2.1 General Provisions Relating to NESHAP ZZZZ [326 IAC 20-1] [40 CFR 63, Subpart A]

(a) Pursuant to 40 CFR 63.6605, the Permittee shall comply with the provisions of 40 CFR Part 63, Subpart A – General Provisions, which are incorporated by reference as 326 IAC 20-1-1, as specified in 40 CFR Part 63, Subpart ZZZZ in accordance with schedule in 40 CFR 63 Subpart ZZZZ.

(b) Pursuant to 40 CFR 63.10, the Permittee shall submit all required notifications and reports to:

Indiana Department of Environmental Management
Compliance and Enforcement 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

E.2.2 Stationary Reciprocating Internal Combustion Engines NESHAP [40 CFR 63, Subpart ZZZZ]

The Permittee which operates stationary reciprocating internal combustion engines shall comply with the following provisions of 40 CFR 63, Subpart ZZZZ (included in its entirety as Attachment B of this permit), which are incorporated by reference as 326 IAC 20-82, as specified as follows:

- (1) 40 CFR 63.6580
- (2) 40 CFR 63.6585 (a), (c), (d)
- (3) 40 CFR 63.6590 (a)(2)(iii), (c)(1)
- (4) 40 CFR 63.6595 (a)(7)
- (5) 40 CFR 63.6665
- (6) 40 CFR 63.6670
- (7) 40 CFR 63.6675
- (8) Table 8

**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
Part 70 Permit No.: T037-26692-00089

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 AND ENFORCEMENT BRANCH, OFFICE OF AIR QUALITY
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
Part 70 Permit No.: T037-26692-00089

This form consists of 2 pages

Page 1 of 2

<input type="checkbox"/> This is an emergency as defined in 326 IAC 2-7-1(12) <ul style="list-style-type: none">• 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: _____

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 COMPLIANCE AND ENFORCEMENT BRANCH, OFFICE OF AIR QUALITY
 Part 70 Quarterly Report**

Source Name: Jasper Engine Exchange, Inc.
 Source Address: 815 Wernsing Road, Jasper, Indiana 47547
 Part 70 Permit No.: T037-26692-00089
 Facility: Reciprocating Internal Combustion Engines and Controlled Pyrolysis Cleaning Furnaces (OVE001-OVE004 and OVE013 – OVE015)
 Parameter: Fuel Usage
 Limit: (a) natural gas usage for all reciprocating internal combustion engines and controlled pyrolysis cleaning furnaces (OVE001-OVE004 and OVE013 – OVE015) shall not exceed 119.7 million cubic feet (MMCF) per 12 consecutive month period, with compliance determined at the end of each month;
 (b) #2 diesel fuel usage for all reciprocating internal combustion engines shall not exceed 50,000 gallons per 12 consecutive month period, with compliance determined at the end of each month; and
 (c) gasoline usage for all reciprocating internal combustion engines shall not exceed 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: _____

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT COMPLIANCE AND ENFORCEMENT BRANCH, OFFICE OF AIR QUALITY

Part 70 Quarterly Report

Source Name: Jasper Engine Exchange, Inc.
Source Address: 815 Wernsing Road, Jasper, Indiana 47547
Part 70 Permit No.: T037-26692-00089
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: _____

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
COMPLIANCE AND ENFORCEMENT BRANCH, OFFICE OF AIR QUALITY
Part 70 Quarterly Report**

Source Name: Jasper Engine Exchange, Inc.
Source Address: 815 Wernsing Road, Jasper, Indiana 47547
Part 70 Permit No.: T037-26692-00089
Facility: Surface Coating Operations (Engine, Stern Drive, Radiator, Diesel Engine, Transmission, PTB-007, PTB012)
Parameter: VOC Usage
Limit: Shall not exceed 60 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

QUARTER: _____ YEAR: _____

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

- No deviation occurred in this quarter.
- Deviation/s occurred in this quarter.

Deviation has been reported on: _____

Submitted by: _____

Title / Position: _____

Signature: _____

Date: _____

Phone: _____

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 COMPLIANCE AND ENFORCEMENT BRANCH, OFFICE OF AIR QUALITY**

**PART 70 OPERATING PERMIT
 QUARTERLY DEVIATION AND COMPLIANCE MONITORING REPORT**

Source Name: Jasper Engine Exchange, Inc.
 Source Address: 815 Wernsing Road, Jasper, Indiana 47547
 Part 70 Permit No.: T037-26692-00089

Months: _____ to _____ Year: _____

<p>This report shall be submitted quarterly based on a calendar year. Proper notice submittal under Section B –Emergency Provisions satisfies the reporting requirements of paragraph (a) of Section C- General Reporting. Any deviation from the requirements of this permit, the date(s) of each deviation, the probable cause of the deviation, and the response steps taken must be reported. A deviation required to be reported pursuant to an applicable requirement that exists independent of the permit, shall be reported according to the schedule stated in the applicable requirement and does not need to be included in this report. Additional pages may be attached if necessary. If no deviations occurred, please specify in the box marked "No deviations occurred this reporting period".</p>	
<input type="checkbox"/> NO DEVIATIONS OCCURRED THIS REPORTING PERIOD.	
<input type="checkbox"/> THE FOLLOWING DEVIATIONS OCCURRED THIS REPORTING PERIOD	
Permit Requirement (specify permit condition #)	
Date of Deviation:	Duration of Deviation:
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	
Permit Requirement (specify permit condition #)	
Date of Deviation:	Duration of Deviation:
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	

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

Form Completed by: _____

Title / Position: _____

Date: _____

Phone: _____

**Indiana Department of Environmental Management
Office of Air Quality**

**Attachment A
to a Part 70 Operating Permit Renewal**

Source Background and Description

Source Name:	Jasper Engine Exchange, Inc
Source Location:	815 Wernsing Road, Jasper, IN 47547
County:	Dubois
SIC Code:	3714, 3519, 7537 and 7539
Permit Renewal No.:	T 037-26692-00089
Permit Reviewer:	Bruce Farrar

Subpart IIII—Standards of Performance for Stationary Compression Ignition Internal Combustion Engines

Source: 71 FR 39172, July 11, 2006, unless otherwise noted.

What This Subpart Covers

§ 60.4200 Am I subject to this subpart?

(a) The provisions of this subpart are applicable to manufacturers, owners, and operators of stationary compression ignition (CI) internal combustion engines (ICE) and other persons as specified in paragraphs (a)(1) through (4) of this section. For the purposes of this subpart, the date that construction commences is the date the engine is ordered by the owner or operator.

(1) Manufacturers of stationary CI ICE with a displacement of less than 30 liters per cylinder where the model year is:

(i) 2007 or later, for engines that are not fire pump engines;

(ii) The model year listed in Table 3 to this subpart or later model year, for fire pump engines.

(2) Owners and operators of stationary CI ICE that commence construction after July 11, 2005, where the stationary CI ICE are:

(i) Manufactured after April 1, 2006, and are not fire pump engines, or

(ii) Manufactured as a certified National Fire Protection Association (NFPA) fire pump engine after July 1, 2006.

(3) Owners and operators of any stationary CI ICE that are modified or reconstructed after July 11, 2005 and any person that modifies or reconstructs any stationary CI ICE after July 11, 2005.

(4) The provisions of §60.4208 of this subpart are applicable to all owners and operators of stationary CI ICE that commence construction after July 11, 2005.

(b) The provisions of this subpart are not applicable to stationary CI ICE being tested at a stationary CI ICE test cell/stand.

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

(d) Stationary CI ICE may be eligible for exemption from the requirements of this subpart as described in 40 CFR part 1068, subpart C (or the exemptions described in 40 CFR part 89, subpart J and 40 CFR part 94, subpart J, for engines that would need to be certified to standards in those parts), except that owners and operators, as well as manufacturers, may be eligible to request an exemption for national security.

(e) Owners and operators of facilities with CI ICE that are acting as temporary replacement units and that are located at a stationary source for less than 1 year and that have been properly certified as meeting the standards that would be applicable to such engine under the appropriate nonroad engine provisions, are not required to meet any other provisions under this subpart with regard to such engines.

[71 FR 39172, July 11, 2006, as amended at 76 FR 37967, June 28, 2011]

Emission Standards for Manufacturers

§ 60.4201 What emission standards must I meet for non-emergency engines if I am a stationary CI internal combustion engine manufacturer?

(a) Stationary CI internal combustion engine manufacturers must certify their 2007 model year and later non-emergency stationary CI ICE with a maximum engine power less than or equal to 2,237 kilowatt (KW) (3,000 horsepower (HP)) and a displacement of less than 10 liters per cylinder to the certification emission standards for new nonroad CI engines in 40 CFR 89.112, 40 CFR 89.113, 40 CFR 1039.101, 40 CFR 1039.102, 40 CFR 1039.104, 40 CFR 1039.105, 40 CFR 1039.107, and 40 CFR 1039.115, as applicable, for all pollutants, for the same model year and maximum engine power.

(b) Stationary CI internal combustion engine manufacturers must certify their 2007 through 2010 model year non-emergency stationary CI ICE with a maximum engine power greater than 2,237 KW (3,000 HP) and a displacement of less than 10 liters per cylinder to the emission standards in table 1 to this subpart, for all pollutants, for the same maximum engine power.

(c) Stationary CI internal combustion engine manufacturers must certify their 2011 model year and later non-emergency stationary CI ICE with a maximum engine power greater than 2,237 KW (3,000 HP) and a displacement of less than 10 liters per cylinder to the certification emission standards for new nonroad CI engines in 40 CFR 1039.101, 40 CFR 1039.102, 40 CFR 1039.104, 40 CFR 1039.105, 40 CFR 1039.107, and 40 CFR 1039.115, as applicable, for all pollutants, for the same maximum engine power.

(d) Stationary CI internal combustion engine manufacturers must certify the following non-emergency stationary CI ICE to the certification emission standards for new marine CI engines in 40 CFR 94.8, as applicable, for all pollutants, for the same displacement and maximum engine power:

(1) Their 2007 model year through 2012 non-emergency stationary CI ICE with a displacement of greater than or equal to 10 liters per cylinder and less than 30 liters per cylinder;

(2) Their 2013 model year non-emergency stationary CI ICE with a maximum engine power greater than or equal to 3,700 KW (4,958 HP) and a displacement of greater than or equal to 10 liters per cylinder and less than 15 liters per cylinder; and

(3) Their 2013 model year non-emergency stationary CI ICE with a displacement of greater than or equal to 15 liters per cylinder and less than 30 liters per cylinder.

(e) Stationary CI internal combustion engine manufacturers must certify the following non-emergency stationary CI ICE to the certification emission standards and other requirements for new marine CI engines in 40 CFR 1042.101, 40 CFR 1042.107, 40 CFR 1042.110, 40 CFR 1042.115, 40 CFR 1042.120, and 40 CFR 1042.145, as applicable, for all pollutants, for the same displacement and maximum engine power:

(1) Their 2013 model year non-emergency stationary CI ICE with a maximum engine power less than 3,700 KW (4,958 HP) and a displacement of greater than or equal to 10 liters per cylinder and less than 15 liters per cylinder; and

(2) Their 2014 model year and later non-emergency stationary CI ICE with a displacement of greater than or equal to 10 liters per cylinder and less than 30 liters per cylinder.

(f) Notwithstanding the requirements in paragraphs (a) through (c) of this section, stationary non-emergency CI ICE identified in paragraphs (a) and (c) may be certified to the provisions of 40 CFR part 94 or, if Table 1 to 40 CFR 1042.1 identifies 40 CFR part 1042 as being applicable, 40 CFR part 1042, if the engines will be used solely in either or both of the following locations:

(1) Areas of Alaska not accessible by the Federal Aid Highway System (FAHS); and

(2) Marine offshore installations.

(g) Notwithstanding the requirements in paragraphs (a) through (f) of this section, stationary CI internal combustion engine manufacturers are not required to certify reconstructed engines; however manufacturers may elect to do so. The reconstructed engine must be certified to the emission standards specified in paragraphs (a) through (e) of this section that are applicable to the model year, maximum engine power, and displacement of the reconstructed stationary CI ICE.

[71 FR 39172, July 11, 2006, as amended at 76 FR 37967, June 28, 2011]

§ 60.4202 What emission standards must I meet for emergency engines if I am a stationary CI internal combustion engine manufacturer?

(a) Stationary CI internal combustion engine manufacturers must certify their 2007 model year and later emergency stationary CI ICE with a maximum engine power less than or equal to 2,237 KW (3,000 HP) and a displacement of less than 10 liters per cylinder that are not fire pump engines to the emission standards specified in paragraphs (a)(1) through (2) of this section.

(1) For engines with a maximum engine power less than 37 KW (50 HP):

(i) The certification emission standards for new nonroad CI engines for the same model year and maximum engine power in 40 CFR 89.112 and 40 CFR 89.113 for all pollutants for model year 2007 engines, and

(ii) The certification emission standards for new nonroad CI engines in 40 CFR 1039.104, 40 CFR 1039.105, 40 CFR 1039.107, 40 CFR 1039.115, and table 2 to this subpart, for 2008 model year and later engines.

(2) For engines with a maximum engine power greater than or equal to 37 KW (50 HP), the certification emission standards for new nonroad CI engines for the same model year and maximum engine power in 40 CFR 89.112 and 40 CFR 89.113 for all pollutants beginning in model year 2007.

(b) Stationary CI internal combustion engine manufacturers must certify their 2007 model year and later emergency stationary CI ICE with a maximum engine power greater than 2,237 KW (3,000 HP) and a displacement of less than 10 liters per cylinder that are not fire pump engines to the emission standards specified in paragraphs (b)(1) through (2) of this section.

(1) For 2007 through 2010 model years, the emission standards in table 1 to this subpart, for all pollutants, for the same maximum engine power.

(2) For 2011 model year and later, the certification emission standards for new nonroad CI engines for engines of the same model year and maximum engine power in 40 CFR 89.112 and 40 CFR 89.113 for all pollutants.

(c) [Reserved]

(d) Beginning with the model years in table 3 to this subpart, stationary CI internal combustion engine manufacturers must certify their fire pump stationary CI ICE to the emission standards in table 4 to this subpart, for all pollutants, for the same model year and NFPA nameplate power.

(e) Stationary CI internal combustion engine manufacturers must certify the following emergency stationary CI ICE that are not fire pump engines to the certification emission standards for new marine CI engines in 40 CFR 94.8, as applicable, for all pollutants, for the same displacement and maximum engine power:

(1) Their 2007 model year through 2012 emergency stationary CI ICE with a displacement of greater than or equal to 10 liters per cylinder and less than 30 liters per cylinder;

(2) Their 2013 model year and later emergency stationary CI ICE with a maximum engine power greater than or equal to 3,700 KW (4,958 HP) and a displacement of greater than or equal to 10 liters per cylinder and less than 15 liters per cylinder;

(3) Their 2013 model year emergency stationary CI ICE with a displacement of greater than or equal to 15 liters per cylinder and less than 30 liters per cylinder; and

(4) Their 2014 model year and later emergency stationary CI ICE with a maximum engine power greater than or equal to 2,000 KW (2,682 HP) and a displacement of greater than or equal to 15 liters per cylinder and less than 30 liters per cylinder.

(f) Stationary CI internal combustion engine manufacturers must certify the following emergency stationary CI ICE to the certification emission standards and other requirements applicable to Tier 3 new marine CI engines in 40 CFR 1042.101, 40 CFR 1042.107, 40 CFR 1042.115, 40 CFR 1042.120, and 40 CFR 1042.145, for all pollutants, for the same displacement and maximum engine power:

(1) Their 2013 model year and later emergency stationary CI ICE with a maximum engine power less than 3,700 KW (4,958 HP) and a displacement of greater than or equal to 10 liters per cylinder and less than 15 liters per cylinder; and

(2) Their 2014 model year and later emergency stationary CI ICE with a maximum engine power less than 2,000 KW (2,682 HP) and a displacement of greater than or equal to 15 liters per cylinder and less than 30 liters per cylinder.

(g) Notwithstanding the requirements in paragraphs (a) through (d) of this section, stationary emergency CI internal combustion engines identified in paragraphs (a) and (c) may be certified to the provisions of 40 CFR part 94 or, if Table 2 to 40 CFR 1042.101 identifies Tier 3 standards as being applicable, the requirements applicable to Tier 3 engines in 40 CFR part 1042, if the engines will be used solely in either or both of the following locations:

- (1) Areas of Alaska not accessible by the FAHS; and
- (2) Marine offshore installations.

(h) Notwithstanding the requirements in paragraphs (a) through (f) of this section, stationary CI internal combustion engine manufacturers are not required to certify reconstructed engines; however manufacturers may elect to do so. The reconstructed engine must be certified to the emission standards specified in paragraphs (a) through (f) of this section that are applicable to the model year, maximum engine power and displacement of the reconstructed emergency stationary CI ICE.

[71 FR 39172, July 11, 2006, as amended at 76 FR 37968, June 28, 2011]

§ 60.4203 How long must my engines meet the emission standards if I am a manufacturer of stationary CI internal combustion engines?

Engines manufactured by stationary CI internal combustion engine manufacturers must meet the emission standards as required in §§60.4201 and 60.4202 during the certified emissions life of the engines.

[76 FR 37968, June 28, 2011]

Emission Standards for Owners and Operators

§ 60.4204 What emission standards must I meet for non-emergency engines if I am an owner or operator of a stationary CI internal combustion engine?

(a) Owners and operators of pre-2007 model year non-emergency stationary CI ICE with a displacement of less than 10 liters per cylinder must comply with the emission standards in table 1 to this subpart. Owners and operators of pre-2007 model year non-emergency stationary CI ICE with a displacement of greater than or equal to 10 liters per cylinder and less than 30 liters per cylinder must comply with the emission standards in 40 CFR 94.8(a)(1).

(b) Owners and operators of 2007 model year and later non-emergency stationary CI ICE with a displacement of less than 30 liters per cylinder must comply with the emission standards for new CI engines in §60.4201 for their 2007 model year and later stationary CI ICE, as applicable.

(c) Owners and operators of non-emergency stationary CI engines with a displacement of greater than or equal to 30 liters per cylinder must meet the following requirements:

(1) For engines installed prior to January 1, 2012, limit the emissions of NO_x in the stationary CI internal combustion engine exhaust to the following:

(i) 17.0 grams per kilowatt-hour (g/KW-hr) (12.7 grams per horsepower-hr (g/HP-hr)) when maximum engine speed is less than 130 revolutions per minute (rpm);

(ii) $45 \cdot n^{-0.2}$ g/KW-hr ($34 \cdot n^{-0.2}$ g/HP-hr) when maximum engine speed is 130 or more but less than 2,000 rpm, where n is maximum engine speed; and

(iii) 9.8 g/KW-hr (7.3 g/HP-hr) when maximum engine speed is 2,000 rpm or more.

(2) For engines installed on or after January 1, 2012 and before January 1, 2016, limit the emissions of NO_x in the stationary CI internal combustion engine exhaust to the following:

(i) 14.4 g/KW-hr (10.7 g/HP-hr) when maximum engine speed is less than 130 rpm;

(ii) $44 \cdot n^{-0.23}$ g/KW-hr ($33 \cdot n^{-0.23}$ g/HP-hr) when maximum engine speed is greater than or equal to 130 but less than 2,000 rpm and where n is maximum engine speed; and

(iii) 7.7 g/KW-hr (5.7 g/HP-hr) when maximum engine speed is greater than or equal to 2,000 rpm.

(3) For engines installed on or after January 1, 2016, limit the emissions of NO_x in the stationary CI internal combustion engine exhaust to the following:

(i) 3.4 g/KW-hr (2.5 g/HP-hr) when maximum engine speed is less than 130 rpm;

(ii) $9.0 \cdot n^{-0.20}$ g/KW-hr ($6.7 \cdot n^{-0.20}$ g/HP-hr) where n (maximum engine speed) is 130 or more but less than 2,000 rpm; and

(iii) 2.0 g/KW-hr (1.5 g/HP-hr) where maximum engine speed is greater than or equal to 2,000 rpm.

(4) Reduce particulate matter (PM) emissions by 60 percent or more, or limit the emissions of PM in the stationary CI internal combustion engine exhaust to 0.15 g/KW-hr (0.11 g/HP-hr).

(d) Owners and operators of non-emergency stationary CI ICE with a displacement of less than 30 liters per cylinder who conduct performance tests in-use must meet the not-to-exceed (NTE) standards as indicated in §60.4212.

(e) Owners and operators of any modified or reconstructed non-emergency stationary CI ICE subject to this subpart must meet the emission standards applicable to the model year, maximum engine power, and displacement of the modified or reconstructed non-emergency stationary CI ICE that are specified in paragraphs (a) through (d) of this section.

[71 FR 39172, July 11, 2006, as amended at 76 FR 37968, June 28, 2011]

§ 60.4205 What emission standards must I meet for emergency engines if I am an owner or operator of a stationary CI internal combustion engine?

(a) Owners and operators of pre-2007 model year emergency stationary CI ICE with a displacement of less than 10 liters per cylinder that are not fire pump engines must comply with the emission standards in Table 1 to this subpart. Owners and operators of pre-2007 model year emergency stationary CI ICE with a displacement of greater than or equal to 10 liters per cylinder and less than 30 liters per cylinder that are not fire pump engines must comply with the emission standards in 40 CFR 94.8(a)(1).

(b) Owners and operators of 2007 model year and later emergency stationary CI ICE with a displacement of less than 30 liters per cylinder that are not fire pump engines must comply with the emission standards for new nonroad CI engines in §60.4202, for all pollutants, for the same model year and maximum engine power for their 2007 model year and later emergency stationary CI ICE.

(c) Owners and operators of fire pump engines with a displacement of less than 30 liters per cylinder must comply with the emission standards in table 4 to this subpart, for all pollutants.

(d) Owners and operators of emergency stationary CI engines with a displacement of greater than or equal to 30 liters per cylinder must meet the requirements in this section.

(1) For engines installed prior to January 1, 2012, limit the emissions of NO_x in the stationary CI internal combustion engine exhaust to the following:

(i) 17.0 g/KW-hr (12.7 g/HP-hr) when maximum engine speed is less than 130 rpm;

(ii) $45 \cdot n^{-0.2}$ g/KW-hr ($34 \cdot n^{-0.2}$ g/HP-hr) when maximum engine speed is 130 or more but less than 2,000 rpm, where n is maximum engine speed; and

(iii) 9.8 g/kW-hr (7.3 g/HP-hr) when maximum engine speed is 2,000 rpm or more.

(2) For engines installed on or after January 1, 2012, limit the emissions of NO_x in the stationary CI internal combustion engine exhaust to the following:

(i) 14.4 g/KW-hr (10.7 g/HP-hr) when maximum engine speed is less than 130 rpm;

(ii) $44 \cdot n^{-0.23}$ g/KW-hr ($33 \cdot n^{-0.23}$ g/HP-hr) when maximum engine speed is greater than or equal to 130 but less than 2,000 rpm and where n is maximum engine speed; and

(iii) 7.7 g/KW-hr (5.7 g/HP-hr) when maximum engine speed is greater than or equal to 2,000 rpm.

(3) Limit the emissions of PM in the stationary CI internal combustion engine exhaust to 0.40 g/KW-hr (0.30 g/HP-hr).

(e) Owners and operators of emergency stationary CI ICE with a displacement of less than 30 liters per cylinder who conduct performance tests in-use must meet the NTE standards as indicated in §60.4212.

(f) Owners and operators of any modified or reconstructed emergency stationary CI ICE subject to this subpart must meet the emission standards applicable to the model year, maximum engine power, and displacement of the modified or reconstructed CI ICE that are specified in paragraphs (a) through (e) of this section.

[71 FR 39172, July 11, 2006, as amended at 76 FR 37969, June 28, 2011]

§ 60.4206 How long must I meet the emission standards if I am an owner or operator of a stationary CI internal combustion engine?

Owners and operators of stationary CI ICE must operate and maintain stationary CI ICE that achieve the emission standards as required in §§60.4204 and 60.4205 over the entire life of the engine.

[76 FR 37969, June 28, 2011]

Fuel Requirements for Owners and Operators

§ 60.4207 What fuel requirements must I meet if I am an owner or operator of a stationary CI internal combustion engine subject to this subpart?

(a) Beginning October 1, 2007, owners and operators of stationary CI ICE subject to this subpart that use diesel fuel must use diesel fuel that meets the requirements of 40 CFR 80.510(a).

(b) Beginning October 1, 2010, owners and operators of stationary CI ICE subject to this subpart with a displacement of less than 30 liters per cylinder that use diesel fuel must purchase diesel fuel that meets the requirements of 40 CFR 80.510(b) for nonroad diesel fuel.

(c) [Reserved]

(d) Beginning June 1, 2012, owners and operators of stationary CI ICE subject to this subpart with a displacement of greater than or equal to 30 liters per cylinder are no longer subject to the requirements of paragraph (a) of this section, and must use fuel that meets a maximum per-gallon sulfur content of 1,000 parts per million (ppm).

(e) Stationary CI ICE that have a national security exemption under §60.4200(d) are also exempt from the fuel requirements in this section.

[71 FR 39172, July 11, 2006, as amended at 76 FR 37969, June 28, 2011]

Other Requirements for Owners and Operators

§ 60.4208 What is the deadline for importing or installing stationary CI ICE produced in previous model years?

(a) After December 31, 2008, owners and operators may not install stationary CI ICE (excluding fire pump engines) that do not meet the applicable requirements for 2007 model year engines.

(b) After December 31, 2009, owners and operators may not install stationary CI ICE with a maximum engine power of less than 19 KW (25 HP) (excluding fire pump engines) that do not meet the applicable requirements for 2008 model year engines.

(c) After December 31, 2014, owners and operators may not install non-emergency stationary CI ICE with a maximum engine power of greater than or equal to 19 KW (25 HP) and less than 56 KW (75 HP) that do not meet the applicable requirements for 2013 model year non-emergency engines.

(d) After December 31, 2013, owners and operators may not install non-emergency stationary CI ICE with a maximum engine power of greater than or equal to 56 KW (75 HP) and less than 130 KW (175 HP) that do not meet the applicable requirements for 2012 model year non-emergency engines.

(e) After December 31, 2012, owners and operators may not install non-emergency stationary CI ICE with a maximum engine power of greater than or equal to 130 KW (175 HP), including those above 560 KW (750 HP), that do not meet the applicable requirements for 2011 model year non-emergency engines.

(f) After December 31, 2016, owners and operators may not install non-emergency stationary CI ICE with a maximum engine power of greater than or equal to 560 KW (750 HP) that do not meet the applicable requirements for 2015 model year non-emergency engines.

(g) After December 31, 2018, owners and operators may not install non-emergency stationary CI ICE with a maximum engine power greater than or equal to 600 KW (804 HP) and less than 2,000 KW (2,680 HP) and a displacement of greater than or equal to 10 liters per cylinder and less than 30 liters per cylinder that do not meet the applicable requirements for 2017 model year non-emergency engines.

(h) In addition to the requirements specified in §§60.4201, 60.4202, 60.4204, and 60.4205, it is prohibited to import stationary CI ICE with a displacement of less than 30 liters per cylinder that do not meet the applicable requirements specified in paragraphs (a) through (g) of this section after the dates specified in paragraphs (a) through (g) of this section.

(i) The requirements of this section do not apply to owners or operators of stationary CI ICE that have been modified, reconstructed, and do not apply to engines that were removed from one existing location and reinstalled at a new location.

[71 FR 39172, July 11, 2006, as amended at 76 FR 37969, June 28, 2011]

§ 60.4209 What are the monitoring requirements if I am an owner or operator of a stationary CI internal combustion engine?

If you are an owner or operator, you must meet the monitoring requirements of this section. In addition, you must also meet the monitoring requirements specified in §60.4211.

(a) If you are an owner or operator of an emergency stationary CI internal combustion engine that does not meet the standards applicable to non-emergency engines, you must install a non-resettable hour meter prior to startup of the engine.

(b) If you are an owner or operator of a stationary CI internal combustion engine equipped with a diesel particulate filter to comply with the emission standards in §60.4204, the diesel particulate filter must be installed with a backpressure monitor that notifies the owner or operator when the high backpressure limit of the engine is approached.

[71 FR 39172, July 11, 2006, as amended at 76 FR 37969, June 28, 2011]

Compliance Requirements

§ 60.4210 What are my compliance requirements if I am a stationary CI internal combustion engine manufacturer?

(a) Stationary CI internal combustion engine manufacturers must certify their stationary CI ICE with a displacement of less than 10 liters per cylinder to the emission standards specified in §60.4201(a) through (c) and §60.4202(a), (b) and (d) using the certification procedures required in 40 CFR part 89, subpart B, or 40 CFR part 1039, subpart C, as applicable, and must test their engines as specified in those parts. For the purposes of this subpart, engines certified to the standards in table 1 to this subpart shall be subject to the same requirements as engines certified to the standards in 40 CFR part 89. For the purposes of this subpart, engines certified to the standards in table 4 to this subpart shall be subject to the same requirements as engines certified to the standards in 40 CFR part 89, except that engines with NFPA nameplate power of less than 37 KW (50 HP) certified to model year 2011 or later standards shall be subject to the same requirements as engines certified to the standards in 40 CFR part 1039.

(b) Stationary CI internal combustion engine manufacturers must certify their stationary CI ICE with a displacement of greater than or equal to 10 liters per cylinder and less than 30 liters per cylinder to the emission standards specified in §60.4201(d) and (e) and §60.4202(e) and (f) using the certification procedures required in 40 CFR part 94, subpart C, or 40 CFR part 1042, subpart C, as applicable, and must test their engines as specified in 40 CFR part 94 or 1042, as applicable.

(c) Stationary CI internal combustion engine manufacturers must meet the requirements of 40 CFR 1039.120, 1039.125, 1039.130, and 1039.135, and 40 CFR part 1068 for engines that are certified to the emission standards in 40 CFR part 1039. Stationary CI internal combustion engine manufacturers must meet the corresponding provisions of 40 CFR part 89, 40 CFR part 94 or 40 CFR part 1042 for engines that would be covered by that part if they were nonroad (including marine) engines. Labels on such engines must refer to stationary engines, rather than or in addition to nonroad or marine engines, as appropriate. Stationary CI internal combustion engine manufacturers must label their engines according to paragraphs (c)(1) through (3) of this section.

(1) Stationary CI internal combustion engines manufactured from January 1, 2006 to March 31, 2006 (January 1, 2006 to June 30, 2006 for fire pump engines), other than those that are part of certified engine families under the nonroad CI engine regulations, must be labeled according to 40 CFR 1039.20.

(2) Stationary CI internal combustion engines manufactured from April 1, 2006 to December 31, 2006 (or, for fire pump engines, July 1, 2006 to December 31 of the year preceding the year listed in table 3 to this subpart) must be labeled according to paragraphs (c)(2)(i) through (iii) of this section:

(i) Stationary CI internal combustion engines that are part of certified engine families under the nonroad regulations must meet the labeling requirements for nonroad CI engines, but do not have to meet the labeling requirements in 40 CFR 1039.20.

(ii) Stationary CI internal combustion engines that meet Tier 1 requirements (or requirements for fire pumps) under this subpart, but do not meet the requirements applicable to nonroad CI engines must be labeled according to 40 CFR 1039.20. The engine manufacturer may add language to the label clarifying that the engine meets Tier 1 requirements (or requirements for fire pumps) of this subpart.

(iii) Stationary CI internal combustion engines manufactured after April 1, 2006 that do not meet Tier 1 requirements of this subpart, or fire pumps engines manufactured after July 1, 2006 that do not meet the requirements for fire pumps under this subpart, may not be used in the U.S. If any such engines are manufactured in the U.S. after April 1, 2006 (July 1, 2006 for fire pump engines), they must be exported or must be brought into compliance with the appropriate standards prior to initial operation. The export provisions of 40 CFR 1068.230 would apply to engines for export and the manufacturers must label such engines according to 40 CFR 1068.230.

(3) Stationary CI internal combustion engines manufactured after January 1, 2007 (for fire pump engines, after January 1 of the year listed in table 3 to this subpart, as applicable) must be labeled according to paragraphs (c)(3)(i) through (iii) of this section.

(i) Stationary CI internal combustion engines that meet the requirements of this subpart and the corresponding requirements for nonroad (including marine) engines of the same model year and HP must be labeled according to the provisions in 40 CFR parts 89, 94, 1039 or 1042, as appropriate.

(ii) Stationary CI internal combustion engines that meet the requirements of this subpart, but are not certified to the standards applicable to nonroad (including marine) engines of the same model year and HP must be labeled according to the provisions in 40 CFR parts 89, 94, 1039 or 1042, as appropriate, but the words "stationary" must be included instead of "nonroad" or "marine" on the label. In addition, such engines must be labeled according to 40 CFR 1039.20.

(iii) Stationary CI internal combustion engines that do not meet the requirements of this subpart must be labeled according to 40 CFR 1068.230 and must be exported under the provisions of 40 CFR 1068.230.

(d) An engine manufacturer certifying an engine family or families to standards under this subpart that are identical to standards applicable under 40 CFR parts 89, 94, 1039 or 1042 for that model year may certify any such family that contains both nonroad (including marine) and stationary engines as a single engine family and/or may include any such family containing stationary engines in the averaging, banking and trading provisions applicable for such engines under those parts.

(e) Manufacturers of engine families discussed in paragraph (d) of this section may meet the labeling requirements referred to in paragraph (c) of this section for stationary CI ICE by either adding a separate label containing the information required in paragraph (c) of this section or by adding the words "and stationary" after the word "nonroad" or "marine," as appropriate, to the label.

(f) Starting with the model years shown in table 5 to this subpart, stationary CI internal combustion engine manufacturers must add a permanent label stating that the engine is for stationary emergency use only to each new emergency stationary CI internal combustion engine greater than or equal to 19 KW (25 HP) that meets all the emission standards for emergency engines in §60.4202 but does not meet all the emission standards for non-emergency engines in §60.4201. The label must be added according to the labeling requirements specified in 40 CFR 1039.135(b). Engine manufacturers must specify in the owner's manual that operation of emergency engines is limited to emergency operations and required maintenance and testing.

(g) Manufacturers of fire pump engines may use the test cycle in table 6 to this subpart for testing fire pump engines and may test at the NFPA certified nameplate HP, provided that the engine is labeled as "Fire Pump Applications Only".

(h) Engine manufacturers, including importers, may introduce into commerce uncertified engines or engines certified to earlier standards that were manufactured before the new or changed standards took effect until inventories are depleted, as long as such engines are part of normal inventory. For example, if the engine manufacturers' normal industry practice is to keep on hand a one-month supply of engines based on its projected sales, and a new tier of standards starts to apply for the 2009 model year, the engine manufacturer may manufacture engines based on the normal inventory requirements late in the 2008 model year, and sell those engines for installation. The engine manufacturer may not circumvent the provisions of §§60.4201 or 60.4202 by stockpiling engines that are built before new or changed standards take effect. Stockpiling of such engines beyond normal industry practice is a violation of this subpart.

(i) The replacement engine provisions of 40 CFR 89.1003(b)(7), 40 CFR 94.1103(b)(3), 40 CFR 94.1103(b)(4) and 40 CFR 1068.240 are applicable to stationary CI engines replacing existing equipment that is less than 15 years old.

[71 FR 39172, July 11, 2006, as amended at 76 FR 37969, June 28, 2011]

§ 60.4211 What are my compliance requirements if I am an owner or operator of a stationary CI internal combustion engine?

(a) If you are an owner or operator and must comply with the emission standards specified in this subpart, you must do all of the following, except as permitted under paragraph (g) of this section:

(1) Operate and maintain the stationary CI internal combustion engine and control device according to the manufacturer's emission-related written instructions;

(2) Change only those emission-related settings that are permitted by the manufacturer; and

(3) Meet the requirements of 40 CFR parts 89, 94 and/or 1068, as they apply to you.

(b) If you are an owner or operator of a pre-2007 model year stationary CI internal combustion engine and must comply with the emission standards specified in §§60.4204(a) or 60.4205(a), or if you are an owner or operator of a CI fire pump engine that is manufactured prior to the model years in table 3 to this subpart and must comply with the emission standards specified in §60.4205(c), you must demonstrate compliance according to one of the methods specified in paragraphs (b)(1) through (5) of this section.

(1) Purchasing an engine certified according to 40 CFR part 89 or 40 CFR part 94, as applicable, for the same model year and maximum engine power. The engine must be installed and configured according to the manufacturer's specifications.

(2) Keeping records of performance test results for each pollutant for a test conducted on a similar engine. The test must have been conducted using the same methods specified in this subpart and these methods must have been followed correctly.

(3) Keeping records of engine manufacturer data indicating compliance with the standards.

(4) Keeping records of control device vendor data indicating compliance with the standards.

(5) Conducting an initial performance test to demonstrate compliance with the emission standards according to the requirements specified in §60.4212, as applicable.

(c) If you are an owner or operator of a 2007 model year and later stationary CI internal combustion engine and must comply with the emission standards specified in §60.4204(b) or §60.4205(b), or if you are an owner or operator of a CI fire pump engine that is manufactured during or after the model year that applies to your fire pump engine power rating in table 3 to this subpart and must comply with the emission standards specified in §60.4205(c), you must comply by purchasing an engine certified to the emission standards in §60.4204(b), or §60.4205(b) or (c), as applicable, for the same model year and maximum (or in the case of fire pumps, NFPA nameplate) engine power. The engine must be installed and configured according to the manufacturer's emission-related specifications, except as permitted in paragraph (g) of this section.

(d) If you are an owner or operator and must comply with the emission standards specified in §60.4204(c) or §60.4205(d), you must demonstrate compliance according to the requirements specified in paragraphs (d)(1) through (3) of this section.

(1) Conducting an initial performance test to demonstrate initial compliance with the emission standards as specified in §60.4213.

(2) Establishing operating parameters to be monitored continuously to ensure the stationary internal combustion engine continues to meet the emission standards. The owner or operator must petition the Administrator for approval of operating parameters to be monitored continuously. The petition must include the information described in paragraphs (d)(2)(i) through (v) of this section.

(i) Identification of the specific parameters you propose to monitor continuously;

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

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

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

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

(3) For non-emergency engines with a displacement of greater than or equal to 30 liters per cylinder, conducting annual performance tests to demonstrate continuous compliance with the emission standards as specified in §60.4213.

(e) If you are an owner or operator of a modified or reconstructed stationary CI internal combustion engine and must comply with the emission standards specified in §60.4204(e) or §60.4205(f), you must demonstrate compliance according to one of the methods specified in paragraphs (e)(1) or (2) of this section.

(1) Purchasing, or otherwise owning or operating, an engine certified to the emission standards in §60.4204(e) or §60.4205(f), as applicable.

(2) Conducting a performance test to demonstrate initial compliance with the emission standards according to the requirements specified in §60.4212 or §60.4213, as appropriate. The test must be conducted within 60 days after the engine commences operation after the modification or reconstruction.

(f) Emergency stationary ICE may be operated for the purpose of maintenance checks and readiness testing, provided that the tests are recommended by Federal, State or local government, the manufacturer, the vendor, or the insurance company associated with the engine. Maintenance checks and readiness testing of such units is limited to 100 hours per year. There is no time limit on the use of emergency stationary ICE in emergency situations. The owner or operator may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that Federal, State, or local standards require maintenance and testing of emergency ICE beyond 100 hours per year. Emergency stationary ICE may operate up to 50 hours per year in non-emergency situations, but those 50 hours are counted towards the 100 hours per year provided for maintenance and testing. The 50 hours per year for non-emergency situations cannot be used for peak shaving or to generate income for a facility to supply power to an electric grid or otherwise supply non-emergency power as part of a financial arrangement with another entity. For owners and operators of emergency engines, any operation other than emergency operation, maintenance and testing, and operation in non-emergency situations for 50 hours per year, as permitted in this section, is prohibited.

(g) If you do not install, configure, operate, and maintain your engine and control device according to the manufacturer's emission-related written instructions, or you change emission-related settings in a way that is not permitted by the manufacturer, you must demonstrate compliance as follows:

(1) If you are an owner or operator of a stationary CI internal combustion engine with maximum engine power less than 100 HP, you must keep a maintenance plan and records of conducted maintenance to demonstrate compliance and must, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions. In addition, if you do not install and configure the engine and control device according to the manufacturer's emission-related written instructions, or you change the emission-related settings in a way that is not permitted by the manufacturer, you must conduct an initial performance test to demonstrate compliance with the applicable emission standards within 1 year of such action.

(2) If you are an owner or operator of a stationary CI internal combustion engine greater than or equal to 100 HP and less than or equal to 500 HP, you must keep a maintenance plan and records of conducted maintenance and must, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions. In addition, you must conduct an initial performance test to demonstrate compliance with the applicable emission standards within 1 year of startup, or within 1 year after an engine and control device is no longer installed, configured, operated, and maintained in accordance with the manufacturer's emission-related written instructions, or within 1 year after you change emission-related settings in a way that is not permitted by the manufacturer.

(3) If you are an owner or operator of a stationary CI internal combustion engine greater than 500 HP, you must keep a maintenance plan and records of conducted maintenance and must, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions. In addition, you must conduct an initial performance test to

demonstrate compliance with the applicable emission standards within 1 year of startup, or within 1 year after an engine and control device is no longer installed, configured, operated, and maintained in accordance with the manufacturer's emission-related written instructions, or within 1 year after you change emission-related settings in a way that is not permitted by the manufacturer. You must conduct subsequent performance testing every 8,760 hours of engine operation or 3 years, whichever comes first, thereafter to demonstrate compliance with the applicable emission standards.

[71 FR 39172, July 11, 2006, as amended at 76 FR 37970, June 28, 2011]

Testing Requirements for Owners and Operators

§ 60.4212 What test methods and other procedures must I use if I am an owner or operator of a stationary CI internal combustion engine with a displacement of less than 30 liters per cylinder?

Owners and operators of stationary CI ICE with a displacement of less than 30 liters per cylinder who conduct performance tests pursuant to this subpart must do so according to paragraphs (a) through (e) of this section.

(a) The performance test must be conducted according to the in-use testing procedures in 40 CFR part 1039, subpart F, for stationary CI ICE with a displacement of less than 10 liters per cylinder, and according to 40 CFR part 1042, subpart F, for stationary CI ICE with a displacement of greater than or equal to 10 liters per cylinder and less than 30 liters per cylinder.

(b) Exhaust emissions from stationary CI ICE that are complying with the emission standards for new CI engines in 40 CFR part 1039 must not exceed the not-to-exceed (NTE) standards for the same model year and maximum engine power as required in 40 CFR 1039.101(e) and 40 CFR 1039.102(g)(1), except as specified in 40 CFR 1039.104(d). This requirement starts when NTE requirements take effect for nonroad diesel engines under 40 CFR part 1039.

(c) Exhaust emissions from stationary CI ICE that are complying with the emission standards for new CI engines in 40 CFR 89.112 or 40 CFR 94.8, as applicable, must not exceed the NTE numerical requirements, rounded to the same number of decimal places as the applicable standard in 40 CFR 89.112 or 40 CFR 94.8, as applicable, determined from the following equation:

$$\text{NTE requirement for each pollutant} = (1.25) \times (\text{STD}) \quad (\text{Eq. 1})$$

Where:

STD = The standard specified for that pollutant in 40 CFR 89.112 or 40 CFR 94.8, as applicable.

Alternatively, stationary CI ICE that are complying with the emission standards for new CI engines in 40 CFR 89.112 or 40 CFR 94.8 may follow the testing procedures specified in §60.4213 of this subpart, as appropriate.

(d) Exhaust emissions from stationary CI ICE that are complying with the emission standards for pre-2007 model year engines in §60.4204(a), §60.4205(a), or §60.4205(c) must not exceed the NTE numerical requirements, rounded to the same number of decimal places as the applicable standard in §60.4204(a), §60.4205(a), or §60.4205(c), determined from the equation in paragraph (c) of this section.

Where:

STD = The standard specified for that pollutant in §60.4204(a), §60.4205(a), or §60.4205(c).

Alternatively, stationary CI ICE that are complying with the emission standards for pre-2007 model year engines in §60.4204(a), §60.4205(a), or §60.4205(c) may follow the testing procedures specified in §60.4213, as appropriate.

(e) Exhaust emissions from stationary CI ICE that are complying with the emission standards for new CI engines in 40 CFR part 1042 must not exceed the NTE standards for the same model year and maximum engine power as required in 40 CFR 1042.101(c).

[71 FR 39172, July 11, 2006, as amended at 76 FR 37971, June 28, 2011]

§ 60.4213 What test methods and other procedures must I use if I am an owner or operator of a stationary CI internal combustion engine with a displacement of greater than or equal to 30 liters per cylinder?

Owners and operators of stationary CI ICE with a displacement of greater than or equal to 30 liters per cylinder must conduct performance tests according to paragraphs (a) through (f) of this section.

(a) Each performance test must be conducted according to the requirements in §60.8 and under the specific conditions that this subpart specifies in table 7. The test must be conducted within 10 percent of 100 percent peak (or the highest achievable) load.

(b) You may not conduct performance tests during periods of startup, shutdown, or malfunction, as specified in §60.8(c).

(c) You must conduct three separate test runs for each performance test required in this section, as specified in §60.8(f). Each test run must last at least 1 hour.

(d) To determine compliance with the percent reduction requirement, you must follow the requirements as specified in paragraphs (d)(1) through (3) of this section.

(1) You must use Equation 2 of this section to determine compliance with the percent reduction requirement:

$$\frac{C_i - C_o}{C_i} \times 100 = R \quad (\text{Eq. 2})$$

Where:

C_i = concentration of NO_x or PM at the control device inlet,

C_o = concentration of NO_x or PM at the control device outlet, and

R = percent reduction of NO_x or PM emissions.

(2) You must normalize the NO_x or PM concentrations at the inlet and outlet of the control device to a dry basis and to 15 percent oxygen (O_2) using Equation 3 of this section, or an equivalent percent carbon dioxide (CO_2) using the procedures described in paragraph (d)(3) of this section.

$$C_{adj} = C_i \frac{5.9}{20.9 - \% \text{O}_2} \quad (\text{Eq. 3})$$

Where:

C_{adj} = Calculated NO_x or PM concentration adjusted to 15 percent O_2 .

C_d = Measured concentration of NO_x or PM, uncorrected.

5.9 = 20.9 percent O_2 - 15 percent O_2 , the defined O_2 correction value, percent.

$\%O_2$ = Measured O_2 concentration, dry basis, percent.

(3) If pollutant concentrations are to be corrected to 15 percent O_2 and CO_2 concentration is measured in lieu of O_2 concentration measurement, a CO_2 correction factor is needed. Calculate the CO_2 correction factor as described in paragraphs (d)(3)(i) through (iii) of this section.

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

$$F_o = \frac{0.209}{F_c} \quad (\text{Eq. 4})$$

Where:

F_o = Fuel factor based on the ratio of O_2 volume to the ultimate CO_2 volume produced by the fuel at zero percent excess air.

0.209 = Fraction of air that is O_2 , percent/100.

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

F_c = Ratio of the volume of CO_2 produced to the gross calorific value of the fuel from Method 19, dm^3/J (dscf/ 10^6 Btu).

(ii) Calculate the CO_2 correction factor for correcting measurement data to 15 percent O_2 , as follows:

$$X_{CO_2} = \frac{5.9}{F_o} \quad (\text{Eq. 5})$$

Where:

X_{CO_2} = CO_2 correction factor, percent.

5.9 = 20.9 percent O_2 - 15 percent O_2 , the defined O_2 correction value, percent.

(iii) Calculate the NO_x and PM gas concentrations adjusted to 15 percent O_2 using CO_2 as follows:

$$C_{adj} = C_d \frac{X_{CO_2}}{\%CO_2} \quad (\text{Eq. 6})$$

Where:

C_{adj} = Calculated NO_x or PM concentration adjusted to 15 percent O_2 .

C_d = Measured concentration of NO_x or PM, uncorrected.

% CO_2 = Measured CO_2 concentration, dry basis, percent.

(e) To determine compliance with the NO_x mass per unit output emission limitation, convert the concentration of NO_x in the engine exhaust using Equation 7 of this section:

$$ER = \frac{C_d \times 1.912 \times 10^{-3} \times Q \times T}{KW\text{-hour}} \quad (\text{Eq. 7})$$

Where:

ER = Emission rate in grams per KW-hour.

C_d = Measured NO_x concentration in ppm.

1.912×10^{-3} = Conversion constant for ppm NO_x to grams per standard cubic meter at 25 degrees Celsius.

Q = Stack gas volumetric flow rate, in standard cubic meter per hour.

T = Time of test run, in hours.

KW-hour = Brake work of the engine, in KW-hour.

(f) To determine compliance with the PM mass per unit output emission limitation, convert the concentration of PM in the engine exhaust using Equation 8 of this section:

$$ER = \frac{C_{adj} \times Q \times T}{KW\text{-hour}} \quad (\text{Eq. 8})$$

Where:

ER = Emission rate in grams per KW-hour.

C_{adj} = Calculated PM concentration in grams per standard cubic meter.

Q = Stack gas volumetric flow rate, in standard cubic meter per hour.

T = Time of test run, in hours.

KW-hour = Energy output of the engine, in KW.

[71 FR 39172, July 11, 2006, as amended at 76 FR 37971, June 28, 2011]

Notification, Reports, and Records for Owners and Operators

§ 60.4214 What are my notification, reporting, and recordkeeping requirements if I am an owner or operator of a stationary CI internal combustion engine?

(a) Owners and operators of non-emergency stationary CI ICE that are greater than 2,237 KW (3,000 HP), or have a displacement of greater than or equal to 10 liters per cylinder, or are pre-2007 model year engines that are greater than 130 KW (175 HP) and not certified, must meet the requirements of paragraphs (a)(1) and (2) of this section.

(1) Submit an initial notification as required in §60.7(a)(1). The notification must include the information in paragraphs (a)(1)(i) through (v) of this section.

(i) Name and address of the owner or operator;

(ii) The address of the affected source;

(iii) Engine information including make, model, engine family, serial number, model year, maximum engine power, and engine displacement;

(iv) Emission control equipment; and

(v) Fuel used.

(2) Keep records of the information in paragraphs (a)(2)(i) through (iv) of this section.

(i) All notifications submitted to comply with this subpart and all documentation supporting any notification.

(ii) Maintenance conducted on the engine.

(iii) If the stationary CI internal combustion is a certified engine, documentation from the manufacturer that the engine is certified to meet the emission standards.

(iv) If the stationary CI internal combustion is not a certified engine, documentation that the engine meets the emission standards.

(b) If the stationary CI internal combustion engine is an emergency stationary internal combustion engine, the owner or operator is not required to submit an initial notification. Starting with the model years in table 5 to this subpart, if the emergency engine does not meet the standards applicable to non-emergency engines in the applicable model year, the owner or operator must keep records of the operation of the engine in emergency and non-emergency service that are recorded through the non-resettable hour meter. The owner must record the time of operation of the engine and the reason the engine was in operation during that time.

(c) If the stationary CI internal combustion engine is equipped with a diesel particulate filter, the owner or operator must keep records of any corrective action taken after the backpressure monitor has notified the owner or operator that the high backpressure limit of the engine is approached.

Special Requirements

§ 60.4215 What requirements must I meet for engines used in Guam, American Samoa, or the Commonwealth of the Northern Mariana Islands?

- (a) Stationary CI ICE with a displacement of less than 30 liters per cylinder that are used in Guam, American Samoa, or the Commonwealth of the Northern Mariana Islands are required to meet the applicable emission standards in §§60.4202 and 60.4205.
- (b) Stationary CI ICE that are used in Guam, American Samoa, or the Commonwealth of the Northern Mariana Islands are not required to meet the fuel requirements in §60.4207.
- (c) Stationary CI ICE with a displacement of greater than or equal to 30 liters per cylinder that are used in Guam, American Samoa, or the Commonwealth of the Northern Mariana Islands are required to meet the following emission standards:
- (1) For engines installed prior to January 1, 2012, limit the emissions of NO_x in the stationary CI internal combustion engine exhaust to the following:
- (i) 17.0 g/KW-hr (12.7 g/HP-hr) when maximum engine speed is less than 130 rpm;
 - (ii) $45 \cdot n^{-0.2}$ g/KW-hr ($34 \cdot n^{-0.2}$ g/HP-hr) when maximum engine speed is 130 or more but less than 2,000 rpm, where n is maximum engine speed; and
 - (iii) 9.8 g/KW-hr (7.3 g/HP-hr) when maximum engine speed is 2,000 rpm or more.
- (2) For engines installed on or after January 1, 2012, limit the emissions of NO_x in the stationary CI internal combustion engine exhaust to the following:
- (i) 14.4 g/KW-hr (10.7 g/HP-hr) when maximum engine speed is less than 130 rpm;
 - (ii) $44 \cdot n^{-0.23}$ g/KW-hr ($33 \cdot n^{-0.23}$ g/HP-hr) when maximum engine speed is greater than or equal to 130 but less than 2,000 rpm and where n is maximum engine speed; and
 - (iii) 7.7 g/KW-hr (5.7 g/HP-hr) when maximum engine speed is greater than or equal to 2,000 rpm.
- (3) Limit the emissions of PM in the stationary CI internal combustion engine exhaust to 0.40 g/KW-hr (0.30 g/HP-hr).

[71 FR 39172, July 11, 2006, as amended at 76 FR 37971, June 28, 2011]

§ 60.4216 What requirements must I meet for engines used in Alaska?

- (a) Prior to December 1, 2010, owners and operators of stationary CI ICE with a displacement of less than 30 liters per cylinder located in areas of Alaska not accessible by the FAHS should refer to 40 CFR part 69 to determine the diesel fuel requirements applicable to such engines.
- (b) Except as indicated in paragraph (c) of this section, manufacturers, owners and operators of stationary CI ICE with a displacement of less than 10 liters per cylinder located in areas of Alaska not accessible by the FAHS may meet the requirements of this subpart by manufacturing and installing engines meeting the requirements of 40 CFR parts 94 or 1042, as appropriate, rather than the otherwise

applicable requirements of 40 CFR parts 89 and 1039, as indicated in sections §§60.4201(f) and 60.4202(g) of this subpart.

(c) Manufacturers, owners and operators of stationary CI ICE that are located in areas of Alaska not accessible by the FAHS may choose to meet the applicable emission standards for emergency engines in §60.4202 and §60.4205, and not those for non-emergency engines in §60.4201 and §60.4204, except that for 2014 model year and later non-emergency CI ICE, the owner or operator of any such engine that was not certified as meeting Tier 4 PM standards, must meet the applicable requirements for PM in §60.4201 and §60.4204 or install a PM emission control device that achieves PM emission reductions of 85 percent, or 60 percent for engines with a displacement of greater than or equal to 30 liters per cylinder, compared to engine-out emissions.

(d) The provisions of §60.4207 do not apply to owners and operators of pre-2014 model year stationary CI ICE subject to this subpart that are located in areas of Alaska not accessible by the FAHS.

(e) The provisions of §60.4208(a) do not apply to owners and operators of stationary CI ICE subject to this subpart that are located in areas of Alaska not accessible by the FAHS until after December 31, 2009.

(f) The provisions of this section and §60.4207 do not prevent owners and operators of stationary CI ICE subject to this subpart that are located in areas of Alaska not accessible by the FAHS from using fuels mixed with used lubricating oil, in volumes of up to 1.75 percent of the total fuel. The sulfur content of the used lubricating oil must be less than 200 parts per million. The used lubricating oil must meet the on-specification levels and properties for used oil in 40 CFR 279.11.

[76 FR 37971, June 28, 2011]

§ 60.4217 What emission standards must I meet if I am an owner or operator of a stationary internal combustion engine using special fuels?

Owners and operators of stationary CI ICE that do not use diesel fuel may petition the Administrator for approval of alternative emission standards, if they can demonstrate that they use a fuel that is not the fuel on which the manufacturer of the engine certified the engine and that the engine cannot meet the applicable standards required in §60.4204 or §60.4205 using such fuels and that use of such fuel is appropriate and reasonably necessary, considering cost, energy, technical feasibility, human health and environmental, and other factors, for the operation of the engine.

[76 FR 37972, June 28, 2011]

General Provisions

§ 60.4218 What parts of the General Provisions apply to me?

Table 8 to this subpart shows which parts of the General Provisions in §§60.1 through 60.19 apply to you.

Definitions

§ 60.4219 What definitions apply to this subpart?

As used in this subpart, all terms not defined herein shall have the meaning given them in the CAA and in subpart A of this part.

Certified emissions life means the period during which the engine is designed to properly function in terms of reliability and fuel consumption, without being remanufactured, specified as a number of hours of operation or calendar years, whichever comes first. The values for certified emissions life for stationary CI ICE with a displacement of less than 10 liters per cylinder are given in 40 CFR 1039.101(g). The values for certified emissions life for stationary CI ICE with a displacement of greater than or equal to 10 liters per cylinder and less than 30 liters per cylinder are given in 40 CFR 94.9(a).

Combustion turbine means all equipment, including but not limited to the turbine, the fuel, air, lubrication and exhaust gas systems, control systems (except emissions control equipment), and any ancillary components and sub-components comprising any simple cycle combustion turbine, any regenerative/recuperative cycle combustion turbine, the combustion turbine portion of any cogeneration cycle combustion system, or the combustion turbine portion of any combined cycle steam/electric generating system.

Compression ignition means relating to a type of stationary internal combustion engine that is not a spark ignition engine.

Date of manufacture means one of the following things:

- (1) For freshly manufactured engines and modified engines, date of manufacture means the date the engine is originally produced.
- (2) For reconstructed engines, date of manufacture means the date the engine was originally produced, except as specified in paragraph (3) of this definition.
- (3) Reconstructed engines are assigned a new date of manufacture if the fixed capital cost of the new and refurbished components exceeds 75 percent of the fixed capital cost of a comparable entirely new facility. An engine that is produced from a previously used engine block does not retain the date of manufacture of the engine in which the engine block was previously used if the engine is produced using all new components except for the engine block. In these cases, the date of manufacture is the date of reconstruction or the date the new engine is produced.

Diesel fuel means any liquid obtained from the distillation of petroleum with a boiling point of approximately 150 to 360 degrees Celsius. One commonly used form is number 2 distillate oil.

Diesel particulate filter means an emission control technology that reduces PM emissions by trapping the particles in a flow filter substrate and periodically removes the collected particles by either physical action or by oxidizing (burning off) the particles in a process called regeneration.

Emergency stationary internal combustion engine means any stationary internal combustion engine whose operation is limited to emergency situations and required testing and maintenance. Examples include stationary ICE used to produce power for critical networks or equipment (including power supplied to portions of a facility) when electric power from the local utility (or the normal power source, if the facility runs on its own power production) is interrupted, or stationary ICE used to pump water in the case of fire or flood, etc. Stationary CI ICE used to supply power to an electric grid or that supply power as part of a financial arrangement with another entity are not considered to be emergency engines.

Engine manufacturer means the manufacturer of the engine. See the definition of "manufacturer" in this section.

Fire pump engine means an emergency stationary internal combustion engine certified to NFPA requirements that is used to provide power to pump water for fire suppression or protection.

Freshly manufactured engine means an engine that has not been placed into service. An engine becomes freshly manufactured when it is originally produced.

Installed means the engine is placed and secured at the location where it is intended to be operated.

Manufacturer has the meaning given in section 216(1) of the Act. In general, this term includes any person who manufactures a stationary engine for sale in the United States or otherwise introduces a new stationary engine into commerce in the United States. This includes importers who import stationary engines for sale or resale.

Maximum engine power means maximum engine power as defined in 40 CFR 1039.801.

Model year means the calendar year in which an engine is manufactured (see "date of manufacture"), except as follows:

(1) Model year means the annual new model production period of the engine manufacturer in which an engine is manufactured (see "date of manufacture"), if the annual new model production period is different than the calendar year and includes January 1 of the calendar year for which the model year is named. It may not begin before January 2 of the previous calendar year and it must end by December 31 of the named calendar year.

(2) For an engine that is converted to a stationary engine after being placed into service as a nonroad or other non-stationary engine, model year means the calendar year or new model production period in which the engine was manufactured (see "date of manufacture").

Other internal combustion engine means any internal combustion engine, except combustion turbines, which is not a reciprocating internal combustion engine or rotary internal combustion engine.

Reciprocating internal combustion engine means any internal combustion engine which uses reciprocating motion to convert heat energy into mechanical work.

Rotary internal combustion engine means any internal combustion engine which uses rotary motion to convert heat energy into mechanical work.

Spark ignition means relating to a gasoline, natural gas, or liquefied petroleum gas fueled engine or any other type of engine with a spark plug (or other sparking device) and with operating characteristics significantly similar to the theoretical Otto combustion cycle. Spark ignition engines usually use a throttle to regulate intake air flow to control power during normal operation. Dual-fuel engines in which a liquid fuel (typically diesel fuel) is used for CI and gaseous fuel (typically natural gas) is used as the primary fuel at an annual average ratio of less than 2 parts diesel fuel to 100 parts total fuel on an energy equivalent basis are spark ignition engines.

Stationary internal combustion engine means any internal combustion engine, except combustion turbines, that converts heat energy into mechanical work and is not mobile. Stationary ICE differ from mobile ICE in that a stationary internal combustion engine is not a nonroad engine as defined at 40 CFR 1068.30 (excluding paragraph (2)(ii) of that definition), and is not used to propel a motor vehicle, aircraft, or a vehicle used solely for competition. Stationary ICE include reciprocating ICE, rotary ICE, and other ICE, except combustion turbines.

Subpart means 40 CFR part 60, subpart IIII.

[71 FR 39172, July 11, 2006, as amended at 76 FR 37972, June 28, 2011]

Table 1 to Subpart IIII of Part 60—Emission Standards for Stationary Pre-2007 Model Year Engines With a Displacement of <10 Liters per Cylinder and 2007–2010 Model Year Engines >2,237 KW (3,000 HP) and With a Displacement of <10 Liters per Cylinder

[As stated in §§60.4201(b), 60.4202(b), 60.4204(a), and 60.4205(a), you must comply with the following emission standards]

Maximum engine power	Emission standards for stationary pre-2007 model year engines with a displacement of <10 liters per cylinder and 2007–2010 model year engines >2,237 KW (3,000 HP) and with a displacement of <10 liters per cylinder in g/KW-hr (g/HP-hr)				
	NMHC + NO _x	HC	NO _x	CO	PM
KW < 8 (HP < 11)	10.5 (7.8)			8.0 (6.0)	1.0 (0.75)
8 ≤ KW < 19 (11 ≤ HP < 25)	9.5 (7.1)			6.6 (4.9)	0.80 (0.60)
19 ≤ KW < 37 (25 ≤ HP < 50)	9.5 (7.1)			5.5 (4.1)	0.80 (0.60)
37 ≤ KW < 56 (50 ≤ HP < 75)			9.2 (6.9)		
56 ≤ KW < 75 (75 ≤ HP < 100)			9.2 (6.9)		
75 ≤ KW < 130 (100 ≤ HP < 175)			9.2 (6.9)		
130 ≤ KW < 225 (175 ≤ HP < 300)		1.3 (1.0)	9.2 (6.9)	11.4 (8.5)	0.54 (0.40)
225 ≤ KW < 450 (300 ≤ HP < 600)		1.3 (1.0)	9.2 (6.9)	11.4 (8.5)	0.54 (0.40)
450 ≤ KW ≤ 560 (600 ≤ HP ≤ 750)		1.3 (1.0)	9.2 (6.9)	11.4 (8.5)	0.54 (0.40)
KW > 560 (HP > 750)		1.3 (1.0)	9.2 (6.9)	11.4 (8.5)	0.54 (0.40)

Table 2 to Subpart IIII of Part 60—Emission Standards for 2008 Model Year and Later Emergency Stationary CI ICE <37 KW (50 HP) With a Displacement of <10 Liters per Cylinder

[As stated in §60.4202(a)(1), you must comply with the following emission standards]

Engine power	Emission standards for 2008 model year and later emergency stationary CI ICE <37 KW (50 HP) with a displacement of <10 liters per cylinder in g/KW-hr (g/HP-hr)			
	Model year(s)	NO _x + NMHC	CO	PM
KW <8 (HP <11)	2008+	7.5 (5.6)	8.0 (6.0)	0.40 (0.30)
8 ≤ KW <19 (11 ≤ HP <25)	2008+	7.5 (5.6)	6.6 (4.9)	0.40 (0.30)
19 ≤ KW <37 (25 ≤ HP <50)	2008+	7.5 (5.6)	5.5 (4.1)	0.30 (0.22)

Table 3 to Subpart IIII of Part 60—Certification Requirements for Stationary Fire Pump Engines

Table 3 to Subpart IIII of Part 60—Certification Requirements for Stationary Fire Pump Engines

As stated in §60.4202(d), you must certify new stationary fire pump engines beginning with the following model years:

Engine power	Starting model year engine manufacturers must certify new stationary fire pump engines according to §60.4202(d) ¹
KW <75 (HP <100)	2011
75 ≤ KW <130 (100 ≤ HP <175)	2010
130 ≤ KW ≤ 560 (175 ≤ HP ≤ 750)	2009
KW >560 (HP >750)	2008

¹Manufacturers of fire pump stationary CI ICE with a maximum engine power greater than or equal to 37 kW (50 HP) and less than 450 kW (600 HP) and a rated speed of greater than 2,650 revolutions per minute (rpm) are not required to certify such engines until three model years following the model year indicated in this Table 3 for engines in the applicable engine power category.

[71 FR 39172, July 11, 2006, as amended at 76 FR 37972, June 28, 2011]

Table 4 to Subpart IIII of Part 60—Emission Standards for Stationary Fire Pump Engines

[As stated in §§60.4202(d) and 60.4205(c), you must comply with the following emission standards for stationary fire pump engines]

Maximum engine power	Model year(s)	NMHC + NO _x	CO	PM
KW<8 (HP<11)	2010 and earlier	10.5 (7.8)	8.0 (6.0)	1.0 (0.75)
	2011+	7.5 (5.6)		0.40 (0.30)
8≤KW<19 (11≤HP<25)	2010 and earlier	9.5 (7.1)	6.6 (4.9)	0.80 (0.60)
	2011+	7.5 (5.6)		0.40 (0.30)
19≤KW<37 (25≤HP<50)	2010 and earlier	9.5 (7.1)	5.5 (4.1)	0.80 (0.60)
	2011+	7.5 (5.6)		0.30 (0.22)
37≤KW<56 (50≤HP<75)	2010 and earlier	10.5 (7.8)	5.0 (3.7)	0.80 (0.60)
	2011+ ¹	4.7 (3.5)		0.40 (0.30)
56≤KW<75 (75≤HP<100)	2010 and earlier	10.5 (7.8)	5.0 (3.7)	0.80 (0.60)
	2011+ ¹	4.7 (3.5)		0.40 (0.30)
75≤KW<130 (100≤HP<175)	2009 and earlier	10.5 (7.8)	5.0 (3.7)	0.80 (0.60)
	2010+ ²	4.0 (3.0)		0.30 (0.22)
130≤KW<225 (175≤HP<300)	2008 and earlier	10.5 (7.8)	3.5 (2.6)	0.54 (0.40)
	2009+ ³	4.0 (3.0)		0.20 (0.15)
225≤KW<450 (300≤HP<600)	2008 and earlier	10.5 (7.8)	3.5 (2.6)	0.54 (0.40)
	2009+ ³	4.0 (3.0)		0.20 (0.15)
450≤KW≤560 (600≤HP≤750)	2008 and earlier	10.5 (7.8)	3.5 (2.6)	0.54 (0.40)
	2009+	4.0 (3.0)		0.20 (0.15)
KW>560 (HP>750)	2007 and earlier	10.5 (7.8)	3.5 (2.6)	0.54 (0.40)
	2008+	6.4 (4.8)		0.20 (0.15)

¹For model years 2011–2013, manufacturers, owners and operators of fire pump stationary CI ICE in this engine power category with a rated speed of greater than 2,650 revolutions per minute (rpm) may comply with the emission limitations for 2010 model year engines.

²For model years 2010–2012, manufacturers, owners and operators of fire pump stationary CI ICE in this engine power category with a rated speed of greater than 2,650 rpm may comply with the emission limitations for 2009 model year engines.

³In model years 2009–2011, manufacturers of fire pump stationary CI ICE in this engine power category with a rated speed of greater than 2,650 rpm may comply with the emission limitations for 2008 model year engines.

Table 5 to Subpart IIII of Part 60—Labeling and Recordkeeping Requirements for New Stationary Emergency Engines

[You must comply with the labeling requirements in §60.4210(f) and the recordkeeping requirements in §60.4214(b) for new emergency stationary CI ICE beginning in the following model years:]

Engine power	Starting model year
19≤KW<56 (25≤HP<75)	2013
56≤KW<130 (75≤HP<175)	2012
KW≥130 (HP≥175)	2011

Table 6 to Subpart IIII of Part 60—Optional 3-Mode Test Cycle for Stationary Fire Pump Engines

[As stated in §60.4210(g), manufacturers of fire pump engines may use the following test cycle for testing fire pump engines:]

Mode No.	Engine speed ¹	Torque (percent) ²	Weighting factors
1	Rated	100	0.30
2	Rated	75	0.50
3	Rated	50	0.20

¹Engine speed: ±2 percent of point.

²Torque: NFPA certified nameplate HP for 100 percent point. All points should be ±2 percent of engine percent load value.

Table 7 to Subpart IIII of Part 60—Requirements for Performance Tests for Stationary CI ICE With a Displacement of ≥30 Liters per Cylinder

[As stated in §60.4213, you must comply with the following requirements for performance tests for stationary CI ICE with a displacement of ≥30 liters per cylinder:]

For each	Complying with the requirement to	You must	Using	According to the following requirements
1. Stationary CI internal combustion engine with a displacement of ≥30 liters per cylinder	a. Reduce NO _x emissions by 90 percent or more	i. Select the sampling port location and the number of traverse points;	(1) Method 1 or 1A of 40 CFR part 60, appendix A	(a) Sampling sites must be located at the inlet and outlet of the control device.
		ii. Measure O ₂ at the inlet and outlet of the control device;	(2) Method 3, 3A, or 3B of 40 CFR part 60, appendix A	(b) Measurements to determine O ₂ concentration must be made at the same time as the measurements for NO _x concentration.
		iii. If necessary, measure moisture	(3) Method 4 of 40 CFR part 60,	(c) Measurements to determine moisture

For each	Complying with the requirement to	You must	Using	According to the following requirements
		content at the inlet and outlet of the control device; and,	appendix A, Method 320 of 40 CFR part 63, appendix A, or ASTM D 6348-03 (incorporated by reference, see §60.17)	content must be made at the same time as the measurements for NO _x concentration.
		iv. Measure NO _x at the inlet and outlet of the control device	(4) Method 7E of 40 CFR part 60, appendix A, Method 320 of 40 CFR part 63, appendix A, or ASTM D 6348-03 (incorporated by reference, see §60.17)	(d) NO _x concentration must be at 15 percent O ₂ , dry basis. Results of this test consist of the average of the three 1-hour or longer runs.
	b. Limit the concentration of NO _x in the stationary CI internal combustion engine exhaust.	i. Select the sampling port location and the number of traverse points;	(1) Method 1 or 1A of 40 CFR part 60, appendix A	(a) If using a control device, the sampling site must be located at the outlet of the control device.
		ii. Determine the O ₂ concentration of the stationary internal combustion engine exhaust at the sampling port location; and,	(2) Method 3, 3A, or 3B of 40 CFR part 60, appendix A	(b) Measurements to determine O ₂ concentration must be made at the same time as the measurement for NO _x concentration.
		iii. If necessary, measure moisture content of the stationary internal combustion engine exhaust at the sampling port location; and,	(3) Method 4 of 40 CFR part 60, appendix A, Method 320 of 40 CFR part 63, appendix A, or ASTM D 6348-03 (incorporated by reference, see §60.17)	(c) Measurements to determine moisture content must be made at the same time as the measurement for NO _x concentration.
		iv. Measure NO _x at the exhaust of the stationary internal combustion engine	(4) Method 7E of 40 CFR part 60, appendix A, Method 320 of 40 CFR part 63, appendix A, or ASTM D 6348-03 (incorporated by reference, see §60.17)	(d) NO _x concentration must be at 15 percent O ₂ , dry basis. Results of this test consist of the average of the three 1-hour or longer runs.

For each	Complying with the requirement to	You must	Using	According to the following requirements
	c. Reduce PM emissions by 60 percent or more	i. Select the sampling port location and the number of traverse points;	(1) Method 1 or 1A of 40 CFR part 60, appendix A	(a) Sampling sites must be located at the inlet and outlet of the control device.
		ii. Measure O ₂ at the inlet and outlet of the control device;	(2) Method 3, 3A, or 3B of 40 CFR part 60, appendix A	(b) Measurements to determine O ₂ concentration must be made at the same time as the measurements for PM concentration.
		iii. If necessary, measure moisture content at the inlet and outlet of the control device; and	(3) Method 4 of 40 CFR part 60, appendix A	(c) Measurements to determine and moisture content must be made at the same time as the measurements for PM concentration.
		iv. Measure PM at the inlet and outlet of the control device	(4) Method 5 of 40 CFR part 60, appendix A	(d) PM concentration must be at 15 percent O ₂ , dry basis. Results of this test consist of the average of the three 1-hour or longer runs.
	d. Limit the concentration of PM in the stationary CI internal combustion engine exhaust	i. Select the sampling port location and the number of traverse points;	(1) Method 1 or 1A of 40 CFR part 60, appendix A	(a) If using a control device, the sampling site must be located at the outlet of the control device.
		ii. Determine the O ₂ concentration of the stationary internal combustion engine exhaust at the sampling port location; and	(2) Method 3, 3A, or 3B of 40 CFR part 60, appendix A	(b) Measurements to determine O ₂ concentration must be made at the same time as the measurements for PM concentration.
		iii. If necessary, measure moisture content of the stationary internal combustion engine exhaust at the sampling port location; and	(3) Method 4 of 40 CFR part 60, appendix A	(c) Measurements to determine moisture content must be made at the same time as the measurements for PM concentration.
		iv. Measure PM at the exhaust of the	(4) Method 5 of 40 CFR part 60,	(d) PM concentration must be at 15 percent

For each	Complying with the requirement to	You must	Using	According to the following requirements
		stationary internal combustion engine	appendix A	O ₂ , dry basis. Results of this test consist of the average of the three 1-hour or longer runs.

Table 8 to Subpart IIII of Part 60—Applicability of General Provisions to Subpart IIII

[As stated in §60.4218, you must comply with the following applicable General Provisions:]

General Provisions citation	Subject of citation	Applies to subpart	Explanation
§60.1	General applicability of the General Provisions	Yes	
§60.2	Definitions	Yes	Additional terms defined in §60.4219.
§60.3	Units and abbreviations	Yes	
§60.4	Address	Yes	
§60.5	Determination of construction or modification	Yes	
§60.6	Review of plans	Yes	
§60.7	Notification and Recordkeeping	Yes	Except that §60.7 only applies as specified in §60.4214(a).
§60.8	Performance tests	Yes	Except that §60.8 only applies to stationary CI ICE with a displacement of (≥30 liters per cylinder and engines that are not certified.
§60.9	Availability of information	Yes	
§60.10	State Authority	Yes	
§60.11	Compliance with standards and maintenance requirements	No	Requirements are specified in subpart IIII.
§60.12	Circumvention	Yes	
§60.13	Monitoring requirements	Yes	Except that §60.13 only applies to stationary CI ICE with a displacement of (≥30 liters per cylinder.
§60.14	Modification	Yes	
§60.15	Reconstruction	Yes	
§60.16	Priority list	Yes	
§60.17	Incorporations by reference	Yes	

General Provisions citation	Subject of citation	Applies to subpart	Explanation
§60.18	General control device requirements	No	
§60.19	General notification and reporting requirements	Yes	

**Indiana Department of Environmental Management
Office of Air Quality**

**Attachment B
to a Part 70 Operating Permit Renewal**

Source Background and Description

Source Name:	Jasper Engine Exchange, Inc
Source Location:	815 Wernsing Road, Jasper, IN 47547
County:	Dubois
SIC Code:	3714, 3519, 7537 and 7539
Permit Renewal No.:	T 037-26692-00089
Permit Reviewer:	Bruce Farrar

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

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

What This Subpart Covers

§ 63.6580 What is the purpose of subpart ZZZZ?

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

[73 FR 3603, Jan. 18, 2008]

§ 63.6585 Am I subject to this subpart?

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

- (a) A stationary RICE is any internal combustion engine which uses reciprocating motion to convert heat energy into mechanical work and which is not mobile. Stationary RICE differ from mobile RICE in that a stationary RICE is not a non-road engine as defined at 40 CFR 1068.30, and is not used to propel a motor vehicle or a vehicle used solely for competition.
- (b) A major source of HAP emissions is a plant site that emits or has the potential to emit any single HAP at a rate of 10 tons (9.07 megagrams) or more per year or any combination of HAP at a rate of 25 tons (22.68 megagrams) or more per year, except that for oil and gas production facilities, a major source of HAP emissions is determined for each surface site.
- (c) An area source of HAP emissions is a source that is not a major source.
- (d) If you are an owner or operator of an area source subject to this subpart, your status as an entity subject to a standard or other requirements under this subpart does not subject you to the obligation to obtain a permit under 40 CFR part 70 or 71, provided you are not required to obtain a permit under 40 CFR 70.3(a) or 40 CFR 71.3(a) for a reason other than your status as an area source under this subpart.

Notwithstanding the previous sentence, you must continue to comply with the provisions of this subpart as applicable.

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

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

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

This subpart applies to each affected source.

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

(1) *Existing stationary RICE.*

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

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

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

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

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

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

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

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

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

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

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

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

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

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

(3) The following stationary RICE do not have to meet the requirements of this subpart and of subpart A of this part, including initial notification requirements:

(i) Existing spark ignition 2 stroke lean burn (2SLB) stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions;

(ii) Existing spark ignition 4 stroke lean burn (4SLB) stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions;

(iii) Existing emergency stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions;

(iv) Existing limited use stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions;

(v) Existing stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions that combusts landfill gas or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis;

(vi) Existing residential emergency stationary RICE located at an area source of HAP emissions;

(vii) Existing commercial emergency stationary RICE located at an area source of HAP emissions; or

(viii) Existing institutional emergency stationary RICE located at an area source of HAP emissions.

(c) *Stationary RICE subject to Regulations under 40 CFR Part 60.* An affected source that meets any of the criteria in paragraphs (c)(1) through (7) of this section must meet the requirements of this part by meeting the requirements of 40 CFR part 60 subpart IIII, for compression ignition engines or 40 CFR part 60 subpart JJJJ, for spark ignition engines. No further requirements apply for such engines under this part.

(1) A new or reconstructed stationary RICE located at an area source;

- (2) A new or reconstructed 2SLB stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions;
- (3) A new or reconstructed 4SLB stationary RICE with a site rating of less than 250 brake HP located at a major source of HAP emissions;
- (4) A new or reconstructed spark ignition 4 stroke rich burn (4SRB) stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions;
- (5) A new or reconstructed stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions which combusts landfill or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis;
- (6) A new or reconstructed emergency or limited use stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions;
- (7) A new or reconstructed compression ignition (CI) stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions.

[69 FR 33506, June 15, 2004, as amended at 73 FR 3604, Jan. 18, 2008; 75 FR 9674, Mar. 3, 2010; 75 FR 37733, June 30, 2010; 75 FR 51588, Aug. 20, 2010]

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

- (a) *Affected sources.* (1) If you have an existing stationary RICE, excluding existing non-emergency CI stationary RICE, with a site rating of more than 500 brake HP located at a major source of HAP emissions, you must comply with the applicable emission limitations and operating limitations no later than June 15, 2007. If you have an existing non-emergency CI stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions, an existing stationary CI RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions, or an existing stationary CI RICE located at an area source of HAP emissions, you must comply with the applicable emission limitations and operating limitations no later than May 3, 2013. If you have an existing stationary SI RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions, or an existing stationary SI RICE located at an area source of HAP emissions, you must comply with the applicable emission limitations and operating limitations no later than October 19, 2013.
- (2) If you start up your new or reconstructed stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions before August 16, 2004, you must comply with the applicable emission limitations and operating limitations in this subpart no later than August 16, 2004.
- (3) If you start up your new or reconstructed stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions after August 16, 2004, you must comply with the applicable emission limitations and operating limitations in this subpart upon startup of your affected source.
- (4) If you start up your new or reconstructed stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions before January 18, 2008, you must comply with the applicable emission limitations and operating limitations in this subpart no later than January 18, 2008.
- (5) If you start up your new or reconstructed stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions after January 18, 2008, you must comply with the applicable emission limitations and operating limitations in this subpart upon startup of your affected source.

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

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

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

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

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

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

[69 FR 33506, June 15, 2004, as amended at 73 FR 3604, Jan. 18, 2008; 75 FR 9675, Mar. 3, 2010; 75 FR 51589, Aug. 20, 2010]

Emission and Operating Limitations

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

Compliance with the numerical emission limitations established in this subpart is based on the results of testing the average of three 1-hour runs using the testing requirements and procedures in §63.6620 and Table 4 to this subpart.

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

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

(c) If you own or operate any of the following stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions, you do not need to comply with the emission limitations in Tables 1a, 2a, 2c, and 2d to this subpart or operating limitations in Tables 1b and 2b to this subpart: an existing 2SLB stationary RICE; an existing 4SLB stationary RICE; a stationary RICE that combusts landfill

gas or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis; an emergency stationary RICE; or a limited use stationary RICE.

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

[73 FR 3605, Jan. 18, 2008, as amended at 75 FR 9675, Mar. 3, 2010]

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

Compliance with the numerical emission limitations established in this subpart is based on the results of testing the average of three 1-hour runs using the testing requirements and procedures in §63.6620 and Table 4 to this subpart. If you own or operate a new or reconstructed 4SLB stationary RICE with a site rating of greater than or equal to 250 and less than or equal to 500 brake HP located at major source of HAP emissions manufactured on or after January 1, 2008, you must comply with the emission limitations in Table 2a to this subpart and the operating limitations in Table 2b to this subpart which apply to you.

[73 FR 3605, Jan. 18, 2008, as amended at 75 FR 9675, Mar. 3, 2010; 75 FR 51589, Aug. 20, 2010]

§ 63.6602 What emission limitations must I meet if I own or operate an existing stationary RICE with a site rating of equal to or less than 500 brake HP located at a major source of HAP emissions?

If you own or operate an existing stationary RICE with a site rating of equal to or less than 500 brake HP located at a major source of HAP emissions, you must comply with the emission limitations in Table 2c to this subpart which apply to you. Compliance with the numerical emission limitations established in this subpart is based on the results of testing the average of three 1-hour runs using the testing requirements and procedures in §63.6620 and Table 4 to this subpart.

[75 FR 51589, Aug. 20, 2010]

§ 63.6603 What emission limitations and operating limitations must I meet if I own or operate an existing stationary RICE located at an area source of HAP emissions?

Compliance with the numerical emission limitations established in this subpart is based on the results of testing the average of three 1-hour runs using the testing requirements and procedures in §63.6620 and Table 4 to this subpart.

(a) If you own or operate an existing stationary RICE located at an area source of HAP emissions, you must comply with the requirements in Table 2d to this subpart and the operating limitations in Table 1b and Table 2b to this subpart that apply to you.

(b) If you own or operate an existing stationary non-emergency CI RICE greater than 300 HP located at area sources in areas of Alaska not accessible by the Federal Aid Highway System (FAHS) you do not have to meet the numerical CO emission limitations specified in Table 2d to this subpart. Existing stationary non-emergency CI RICE greater than 300 HP located at area sources in areas of Alaska not accessible by the FAHS must meet the management practices that are shown for stationary non-emergency CI RICE less than or equal to 300 HP in Table 2d to this subpart.

[75 FR 9675, Mar. 3, 2010, as amended at 75 FR 51589, Aug. 20, 2010; 76 FR 12866, Mar. 9, 2011]

§ 63.6604 What fuel requirements must I meet if I own or operate an existing stationary CI RICE?

If you own or operate an existing non-emergency, non-black start CI stationary RICE with a site rating of more than 300 brake HP with a displacement of less than 30 liters per cylinder that uses diesel fuel, you must use diesel fuel that meets the requirements in 40 CFR 80.510(b) for nonroad diesel fuel. Existing non-emergency CI stationary RICE located in Guam, American Samoa, the Commonwealth of the Northern Mariana Islands, or at area sources in areas of Alaska not accessible by the FAHS are exempt from the requirements of this section.

[75 FR 51589, Aug. 20, 2010]

General Compliance Requirements

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

(a) You must be in compliance with the emission limitations and operating limitations in this subpart that apply to you at all times.

(b) At all times you must operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require you to make any further efforts to reduce emissions if levels required by this standard have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.

[75 FR 9675, Mar. 3, 2010]

Testing and Initial Compliance Requirements

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

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

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

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

(c) If you commenced construction or reconstruction between December 19, 2002 and June 15, 2004 and own or operate stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions, and you chose to comply with the proposed emission limitations when demonstrating initial compliance, you must conduct a second performance test to demonstrate compliance with the

promulgated emission limitations by December 13, 2007 or after startup of the source, whichever is later, according to §63.7(a)(2)(ix).

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

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

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

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

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

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

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

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

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

[73 FR 3605, Jan. 18, 2008, as amended at 75 FR 51589, Aug. 20, 2010]

§ 63.6612 By what date must I conduct the initial performance tests or other initial compliance demonstrations if I own or operate an existing stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions or an existing stationary RICE located at an area source of HAP emissions?

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

(a) You must conduct any initial performance test or other initial compliance demonstration according to Tables 4 and 5 to this subpart that apply to you within 180 days after the compliance date that is specified for your stationary RICE in §63.6595 and according to the provisions in §63.7(a)(2).

(b) An owner or operator is not required to conduct an initial performance test on a unit for which a performance test has been previously conducted, but the test must meet all of the conditions described in paragraphs (b)(1) through (4) of this section.

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

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

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

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

[75 FR 9676, Mar. 3, 2010, as amended at 75 FR 51589, Aug. 20, 2010]

§ 63.6615 When must I conduct subsequent performance tests?

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

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

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

(b) Each performance test must be conducted according to the requirements that this subpart specifies in Table 4 to this subpart. If you own or operate a non-operational stationary RICE that is subject to performance testing, you do not need to start up the engine solely to conduct the performance test. Owners and operators of a non-operational engine can conduct the performance test when the engine is started up again.

(c) [Reserved]

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

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

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

Where:

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

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

R = percent reduction of CO or formaldehyde emissions.

(2) You must normalize the carbon monoxide (CO) or formaldehyde concentrations at the inlet and outlet of the control device to a dry basis and to 15 percent oxygen, or an equivalent percent carbon dioxide (CO₂). If pollutant concentrations are to be corrected to 15 percent oxygen and CO₂ concentration is

measured in lieu of oxygen concentration measurement, a CO₂ correction factor is needed. Calculate the CO₂ correction factor as described in paragraphs (e)(2)(i) through (iii) of this section.

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

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

Where:

F_o = Fuel factor based on the ratio of oxygen volume to the ultimate CO₂ volume produced by the fuel at zero percent excess air.

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

F_d = Ratio of the volume of dry effluent gas to the gross calorific value of the fuel from Method 19, dsm³ / J (dscf/10⁶ Btu).

F_c = Ratio of the volume of CO₂ produced to the gross calorific value of the fuel from Method 19, dsm³ / J (dscf/10⁶ Btu).

(ii) Calculate the CO₂ correction factor for correcting measurement data to 15 percent oxygen, as follows:

$$X_{CO_2} = \frac{5.9}{F_o} \quad (\text{Eq. 3})$$

Where:

X_{CO₂} = CO₂ correction factor, percent.

5.9 = 20.9 percent O₂ - 15 percent O₂, the defined O₂ correction value, percent.

(iii) Calculate the NO_x and SO₂ gas concentrations adjusted to 15 percent O₂ using CO₂ as follows:

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

Where:

%CO₂ = Measured CO₂ concentration measured, dry basis, percent.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

(i) The engine percent load during a performance test must be determined by documenting the calculations, assumptions, and measurement devices used to measure or estimate the percent load in a specific application. A written report of the average percent load determination must be included in the notification of compliance status. The following information must be included in the written report: the engine model number, the engine manufacturer, the year of purchase, the manufacturer's site-rated brake horsepower, the ambient temperature, pressure, and humidity during the performance test, and all assumptions that were made to estimate or calculate percent load during the performance test must be

clearly explained. If measurement devices such as flow meters, kilowatt meters, beta analyzers, stain gauges, etc. are used, the model number of the measurement device, and an estimate of its accurate in percentage of true value must be provided.

[69 FR 33506, June 15, 2004, as amended at 75 FR 9676, Mar. 3, 2010]

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

(a) If you elect to install a CEMS as specified in Table 5 of this subpart, you must install, operate, and maintain a CEMS to monitor CO and either oxygen or CO₂ at both the inlet and the outlet of the control device according to the requirements in paragraphs (a)(1) through (4) of this section.

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

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

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

(4) The CEMS data must be reduced as specified in §63.8(g)(2) and recorded in parts per million or parts per billion (as appropriate for the applicable limitation) at 15 percent oxygen or the equivalent CO₂ concentration.

(b) If you are required to install a continuous parameter monitoring system (CPMS) as specified in Table 5 of this subpart, you must install, operate, and maintain each CPMS according to the requirements in paragraphs (b)(1) through (5) of this section. For an affected source that is complying with the emission limitations and operating limitations on March 9, 2011, the requirements in paragraph (b) of this section are applicable September 6, 2011.

(1) You must prepare a site-specific monitoring plan that addresses the monitoring system design, data collection, and the quality assurance and quality control elements outlined in paragraphs (b)(1)(i) through (v) of this section and in §63.8(d). As specified in §63.8(f)(4), you may request approval of monitoring system quality assurance and quality control procedures alternative to those specified in paragraphs (b)(1) through (5) of this section in your site-specific monitoring plan.

(i) The performance criteria and design specifications for the monitoring system equipment, including the sample interface, detector signal analyzer, and data acquisition and calculations;

(ii) Sampling interface (e.g., thermocouple) location such that the monitoring system will provide representative measurements;

(iii) Equipment performance evaluations, system accuracy audits, or other audit procedures;

(iv) Ongoing operation and maintenance procedures in accordance with provisions in §63.8(c)(1) and (c)(3); and

(v) Ongoing reporting and recordkeeping procedures in accordance with provisions in §63.10(c), (e)(1), and (e)(2)(i).

(2) You must install, operate, and maintain each CPMS in continuous operation according to the procedures in your site-specific monitoring plan.

(3) The CPMS must collect data at least once every 15 minutes (see also §63.6635).

(4) For a CPMS for measuring temperature range, the temperature sensor must have a minimum tolerance of 2.8 degrees Celsius (5 degrees Fahrenheit) or 1 percent of the measurement range, whichever is larger.

(5) You must conduct the CPMS equipment performance evaluation, system accuracy audits, or other audit procedures specified in your site-specific monitoring plan at least annually.

(6) You must conduct a performance evaluation of each CPMS in accordance with your site-specific monitoring plan.

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

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

(e) If you own or operate any of the following stationary RICE, you must operate and maintain the stationary RICE and after-treatment control device (if any) according to the manufacturer's emission-related written instructions or develop your own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions:

(1) An existing stationary RICE with a site rating of less than 100 HP located at a major source of HAP emissions;

(2) An existing emergency or black start stationary RICE with a site rating of less than or equal to 500 HP located at a major source of HAP emissions;

(3) An existing emergency or black start stationary RICE located at an area source of HAP emissions;

(4) An existing non-emergency, non-black start stationary CI RICE with a site rating less than or equal to 300 HP located at an area source of HAP emissions;

(5) An existing non-emergency, non-black start 2SLB stationary RICE located at an area source of HAP emissions;

(6) An existing non-emergency, non-black start landfill or digester gas stationary RICE located at an area source of HAP emissions;

(7) An existing non-emergency, non-black start 4SLB stationary RICE with a site rating less than or equal to 500 HP located at an area source of HAP emissions;

(8) An existing non-emergency, non-black start 4SRB stationary RICE with a site rating less than or equal to 500 HP located at an area source of HAP emissions;

(9) An existing, non-emergency, non-black start 4SLB stationary RICE with a site rating greater than 500 HP located at an area source of HAP emissions that is operated 24 hours or less per calendar year; and

(10) An existing, non-emergency, non-black start 4SRB stationary RICE with a site rating greater than 500 HP located at an area source of HAP emissions that is operated 24 hours or less per calendar year.

(f) If you own or operate an existing emergency stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions or an existing emergency stationary RICE located at an area source of HAP emissions, you must install a non-resettable hour meter if one is not already installed.

(g) If you own or operate an existing non-emergency, non-black start CI engine greater than or equal to 300 HP that is not equipped with a closed crankcase ventilation system, you must comply with either paragraph (g)(1) or paragraph (g)(2) of this section. Owners and operators must follow the manufacturer's specified maintenance requirements for operating and maintaining the open or closed crankcase ventilation systems and replacing the crankcase filters, or can request the Administrator to approve different maintenance requirements that are as protective as manufacturer requirements. Existing CI engines located at area sources in areas of Alaska not accessible by the FAHS do not have to meet the requirements of paragraph (g) of this section.

(1) Install a closed crankcase ventilation system that prevents crankcase emissions from being emitted to the atmosphere, or

(2) Install an open crankcase filtration emission control system that reduces emissions from the crankcase by filtering the exhaust stream to remove oil mist, particulates, and metals.

(h) If you operate a new, reconstructed, or existing stationary engine, you must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the emission standards applicable to all times other than startup in Tables 1a, 2a, 2c, and 2d to this subpart apply.

(i) If you own or operate a stationary CI engine that is subject to the work, operation or management practices in items 1 or 2 of Table 2c to this subpart or in items 1 or 4 of Table 2d to this subpart, you have the option of utilizing an oil analysis program in order to extend the specified oil change requirement in Tables 2c and 2d to this subpart. The oil analysis must be performed at the same frequency specified for changing the oil in Table 2c or 2d to this subpart. The analysis program must at a minimum analyze the following three parameters: Total Base Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Base Number is less than 30 percent of the Total Base Number of the oil when new; viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or percent water content (by volume) is greater than 0.5. If all of these condemning limits are not exceeded, the engine owner or operator is not required to change the oil. If any of the limits are exceeded, the engine owner or operator must change the oil within 2 days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the engine owner or operator must change the oil within 2 days or before commencing operation, whichever is later. The owner or operator must keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. The analysis program must be part of the maintenance plan for the engine.

(j) If you own or operate a stationary SI engine that is subject to the work, operation or management practices in items 6, 7, or 8 of Table 2c to this subpart or in items 5, 6, 7, 9, or 11 of Table 2d to this subpart, you have the option of utilizing an oil analysis program in order to extend the specified oil change

requirement in Tables 2c and 2d to this subpart. The oil analysis must be performed at the same frequency specified for changing the oil in Table 2c or 2d to this subpart. The analysis program must at a minimum analyze the following three parameters: Total Acid Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Acid Number increases by more than 3.0 milligrams of potassium hydroxide (KOH) per gram from Total Acid Number of the oil when new; viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or percent water content (by volume) is greater than 0.5. If all of these condemning limits are not exceeded, the engine owner or operator is not required to change the oil. If any of the limits are exceeded, the engine owner or operator must change the oil within 2 days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the engine owner or operator must change the oil within 2 days or before commencing operation, whichever is later. The owner or operator must keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. The analysis program must be part of the maintenance plan for the engine.

[69 FR 33506, June 15, 2004, as amended at 73 FR 3606, Jan. 18, 2008; 75 FR 9676, Mar. 3, 2010; 75 FR 51589, Aug. 20, 2010; 76 FR 12866, Mar. 9, 2011]

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

- (a) You must demonstrate initial compliance with each emission and operating limitation that applies to you according to Table 5 of this subpart.
- (b) During the initial performance test, you must establish each operating limitation in Tables 1b and 2b of this subpart that applies to you.
- (c) You must submit the Notification of Compliance Status containing the results of the initial compliance demonstration according to the requirements in §63.6645.

Continuous Compliance Requirements

§ 63.6635 How do I monitor and collect data to demonstrate continuous compliance?

- (a) If you must comply with emission and operating limitations, you must monitor and collect data according to this section.
- (b) Except for monitor malfunctions, associated repairs, required performance evaluations, and required quality assurance or control activities, you must monitor continuously at all times that the stationary RICE is operating. A monitoring malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring to provide valid data. Monitoring failures that are caused in part by poor maintenance or careless operation are not malfunctions.
- (c) You may not use data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities in data averages and calculations used to report emission or operating levels. You must, however, use all the valid data collected during all other periods.

[69 FR 33506, June 15, 2004, as amended at 76 FR 12867, Mar. 9, 2011]

§ 63.6640 How do I demonstrate continuous compliance with the emission limitations and operating limitations?

(a) You must demonstrate continuous compliance with each emission limitation and operating limitation in Tables 1a and 1b, Tables 2a and 2b, Table 2c, and Table 2d to this subpart that apply to you according to methods specified in Table 6 to this subpart.

(b) You must report each instance in which you did not meet each emission limitation or operating limitation in Tables 1a and 1b, Tables 2a and 2b, Table 2c, and Table 2d to this subpart that apply to you. These instances are deviations from the emission and operating limitations in this subpart. These deviations must be reported according to the requirements in §63.6650. If you change your catalyst, you must reestablish the values of the operating parameters measured during the initial performance test. When you reestablish the values of your operating parameters, you must also conduct a performance test to demonstrate that you are meeting the required emission limitation applicable to your stationary RICE.

(c) [Reserved]

(d) For new, reconstructed, and rebuilt stationary RICE, deviations from the emission or operating limitations that occur during the first 200 hours of operation from engine startup (engine burn-in period) are not violations. Rebuilt stationary RICE means a stationary RICE that has been rebuilt as that term is defined in 40 CFR 94.11(a).

(e) You must also report each instance in which you did not meet the requirements in Table 8 to this subpart that apply to you. If you own or operate a new or reconstructed stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions (except new or reconstructed 4SLB engines greater than or equal to 250 and less than or equal to 500 brake HP), a new or reconstructed stationary RICE located at an area source of HAP emissions, or any of the following RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions, you do not need to comply with the requirements in Table 8 to this subpart: An existing 2SLB stationary RICE, an existing 4SLB stationary RICE, an existing emergency stationary RICE, an existing limited use stationary RICE, or an existing stationary RICE which fires landfill gas or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis. If you own or operate any of the following RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions, you do not need to comply with the requirements in Table 8 to this subpart, except for the initial notification requirements: a new or reconstructed stationary RICE that combusts landfill gas or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis, a new or reconstructed emergency stationary RICE, or a new or reconstructed limited use stationary RICE.

(f) *Requirements for emergency stationary RICE.* (1) If you own or operate an existing emergency stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions, a new or reconstructed emergency stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions that was installed on or after June 12, 2006, or an existing emergency stationary RICE located at an area source of HAP emissions, you must operate the emergency stationary RICE according to the requirements in paragraphs (f)(1)(i) through (iii) of this section. Any operation other than emergency operation, maintenance and testing, and operation in non-emergency situations for 50 hours per year, as described in paragraphs (f)(1)(i) through (iii) of this section, is prohibited. If you do not operate the engine according to the requirements in paragraphs (f)(1)(i) through (iii) of this section, the engine will not be considered an emergency engine under this subpart and will need to meet all requirements for non-emergency engines.

(i) There is no time limit on the use of emergency stationary RICE in emergency situations.

(ii) You may operate your emergency stationary RICE for the purpose of maintenance checks and readiness testing, provided that the tests are recommended by Federal, State or local government, the

manufacturer, the vendor, or the insurance company associated with the engine. Maintenance checks and readiness testing of such units is limited to 100 hours per year. The owner or operator may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that Federal, State, or local standards require maintenance and testing of emergency RICE beyond 100 hours per year.

(iii) You may operate your emergency stationary RICE up to 50 hours per year in non-emergency situations, but those 50 hours are counted towards the 100 hours per year provided for maintenance and testing. The 50 hours per year for non-emergency situations cannot be used for peak shaving or to generate income for a facility to supply power to an electric grid or otherwise supply power as part of a financial arrangement with another entity; except that owners and operators may operate the emergency engine for a maximum of 15 hours per year as part of a demand response program if the regional transmission organization or equivalent balancing authority and transmission operator has determined there are emergency conditions that could lead to a potential electrical blackout, such as unusually low frequency, equipment overload, capacity or energy deficiency, or unacceptable voltage level. The engine may not be operated for more than 30 minutes prior to the time when the emergency condition is expected to occur, and the engine operation must be terminated immediately after the facility is notified that the emergency condition is no longer imminent. The 15 hours per year of demand response operation are counted as part of the 50 hours of operation per year provided for non-emergency situations. The supply of emergency power to another entity or entities pursuant to financial arrangement is not limited by this paragraph (f)(1)(iii), as long as the power provided by the financial arrangement is limited to emergency power.

(2) If you own or operate an emergency stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions that was installed prior to June 12, 2006, you must operate the engine according to the conditions described in paragraphs (f)(2)(i) through (iii) of this section. If you do not operate the engine according to the requirements in paragraphs (f)(2)(i) through (iii) of this section, the engine will not be considered an emergency engine under this subpart and will need to meet all requirements for non-emergency engines.

(i) There is no time limit on the use of emergency stationary RICE in emergency situations.

(ii) You may operate your emergency stationary RICE for the purpose of maintenance checks and readiness testing, provided that the tests are recommended by the manufacturer, the vendor, or the insurance company associated with the engine. Required testing of such units should be minimized, but there is no time limit on the use of emergency stationary RICE in emergency situations and for routine testing and maintenance.

(iii) You may operate your emergency stationary RICE for an additional 50 hours per year in non-emergency situations. The 50 hours per year for non-emergency situations cannot be used for peak shaving or to generate income for a facility to supply power to an electric grid or otherwise supply power as part of a financial arrangement with another entity.

[69 FR 33506, June 15, 2004, as amended at 71 FR 20467, Apr. 20, 2006; 73 FR 3606, Jan. 18, 2008; 75 FR 9676, Mar. 3, 2010; 75 FR 51591, Aug. 20, 2010]

Notifications, Reports, and Records

§ 63.6645 What notifications must I submit and when?

(a) You must submit all of the notifications in §§63.7(b) and (c), 63.8(e), (f)(4) and (f)(6), 63.9(b) through (e), and (g) and (h) that apply to you by the dates specified if you own or operate any of the following;

- (1) An existing stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions.
 - (2) An existing stationary RICE located at an area source of HAP emissions.
 - (3) A stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions.
 - (4) A new or reconstructed 4SLB stationary RICE with a site rating of greater than or equal to 250 HP located at a major source of HAP emissions.
 - (5) This requirement does not apply if you own or operate an existing stationary RICE less than 100 HP, an existing stationary emergency RICE, or an existing stationary RICE that is not subject to any numerical emission standards.
- (b) As specified in §63.9(b)(2), if you start up your stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions before the effective date of this subpart, you must submit an Initial Notification not later than December 13, 2004.
 - (c) If you start up your new or reconstructed stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions on or after August 16, 2004, you must submit an Initial Notification not later than 120 days after you become subject to this subpart.
 - (d) As specified in §63.9(b)(2), if you start up your stationary RICE with a site rating of equal to or less than 500 brake HP located at a major source of HAP emissions before the effective date of this subpart and you are required to submit an initial notification, you must submit an Initial Notification not later than July 16, 2008.
 - (e) If you start up your new or reconstructed stationary RICE with a site rating of equal to or less than 500 brake HP located at a major source of HAP emissions on or after March 18, 2008 and you are required to submit an initial notification, you must submit an Initial Notification not later than 120 days after you become subject to this subpart.
 - (f) If you are required to submit an Initial Notification but are otherwise not affected by the requirements of this subpart, in accordance with §63.6590(b), your notification should include the information in §63.9(b)(2)(i) through (v), and a statement that your stationary RICE has no additional requirements and explain the basis of the exclusion (for example, that it operates exclusively as an emergency stationary RICE if it has a site rating of more than 500 brake HP located at a major source of HAP emissions).
 - (g) If you are required to conduct a performance test, you must submit a Notification of Intent to conduct a performance test at least 60 days before the performance test is scheduled to begin as required in §63.7(b)(1).
 - (h) If you are required to conduct a performance test or other initial compliance demonstration as specified in Tables 4 and 5 to this subpart, you must submit a Notification of Compliance Status according to §63.9(h)(2)(ii).
- (1) For each initial compliance demonstration required in Table 5 to this subpart that does not include a performance test, you must submit the Notification of Compliance Status before the close of business on the 30th day following the completion of the initial compliance demonstration.
 - (2) For each initial compliance demonstration required in Table 5 to this subpart that includes a performance test conducted according to the requirements in Table 3 to this subpart, you must submit the

Notification of Compliance Status, including the performance test results, before the close of business on the 60th day following the completion of the performance test according to §63.10(d)(2).

[73 FR 3606, Jan. 18, 2008, as amended at 75 FR 9677, Mar. 3, 2010; 75 FR 51591, Aug. 20, 2010]

§ 63.6650 What reports must I submit and when?

(a) You must submit each report in Table 7 of this subpart that applies to you.

(b) Unless the Administrator has approved a different schedule for submission of reports under §63.10(a), you must submit each report by the date in Table 7 of this subpart and according to the requirements in paragraphs (b)(1) through (b)(9) of this section.

(1) For semiannual Compliance reports, the first Compliance report must cover the period beginning on the compliance date that is specified for your affected source in §63.6595 and ending on June 30 or December 31, whichever date is the first date following the end of the first calendar half after the compliance date that is specified for your source in §63.6595.

(2) For semiannual Compliance reports, the first Compliance report must be postmarked or delivered no later than July 31 or January 31, whichever date follows the end of the first calendar half after the compliance date that is specified for your affected source in §63.6595.

(3) For semiannual Compliance reports, each subsequent Compliance report must cover the semiannual reporting period from January 1 through June 30 or the semiannual reporting period from July 1 through December 31.

(4) For semiannual Compliance reports, each subsequent Compliance report must be postmarked or delivered no later than July 31 or January 31, whichever date is the first date following the end of the semiannual reporting period.

(5) For each stationary RICE that is subject to permitting regulations pursuant to 40 CFR part 70 or 71, and if the permitting authority has established dates for submitting semiannual reports pursuant to 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6 (a)(3)(iii)(A), you may submit the first and subsequent Compliance reports according to the dates the permitting authority has established instead of according to the dates in paragraphs (b)(1) through (b)(4) of this section.

(6) For annual Compliance reports, the first Compliance report must cover the period beginning on the compliance date that is specified for your affected source in §63.6595 and ending on December 31.

(7) For annual Compliance reports, the first Compliance report must be postmarked or delivered no later than January 31 following the end of the first calendar year after the compliance date that is specified for your affected source in §63.6595.

(8) For annual Compliance reports, each subsequent Compliance report must cover the annual reporting period from January 1 through December 31.

(9) For annual Compliance reports, each subsequent Compliance report must be postmarked or delivered no later than January 31.

(c) The Compliance report must contain the information in paragraphs (c)(1) through (6) of this section.

(1) Company name and address.

(2) Statement by a responsible official, with that official's name, title, and signature, certifying the accuracy of the content of the report.

(3) Date of report and beginning and ending dates of the reporting period.

(4) If you had a malfunction during the reporting period, the compliance report must include the number, duration, and a brief description for each type of malfunction which occurred during the reporting period and which caused or may have caused any applicable emission limitation to be exceeded. The report must also include a description of actions taken by an owner or operator during a malfunction of an affected source to minimize emissions in accordance with §63.6605(b), including actions taken to correct a malfunction.

(5) If there are no deviations from any emission or operating limitations that apply to you, a statement that there were no deviations from the emission or operating limitations during the reporting period.

(6) If there were no periods during which the continuous monitoring system (CMS), including CEMS and CPMS, was out-of-control, as specified in §63.8(c)(7), a statement that there were no periods during which the CMS was out-of-control during the reporting period.

(d) For each deviation from an emission or operating limitation that occurs for a stationary RICE where you are not using a CMS to comply with the emission or operating limitations in this subpart, the Compliance report must contain the information in paragraphs (c)(1) through (4) of this section and the information in paragraphs (d)(1) and (2) of this section.

(1) The total operating time of the stationary RICE at which the deviation occurred during the reporting period.

(2) Information on the number, duration, and cause of deviations (including unknown cause, if applicable), as applicable, and the corrective action taken.

(e) For each deviation from an emission or operating limitation occurring for a stationary RICE where you are using a CMS to comply with the emission and operating limitations in this subpart, you must include information in paragraphs (c)(1) through (4) and (e)(1) through (12) of this section.

(1) The date and time that each malfunction started and stopped.

(2) The date, time, and duration that each CMS was inoperative, except for zero (low-level) and high-level checks.

(3) The date, time, and duration that each CMS was out-of-control, including the information in §63.8(c)(8).

(4) The date and time that each deviation started and stopped, and whether each deviation occurred during a period of malfunction or during another period.

(5) A summary of the total duration of the deviation during the reporting period, and the total duration as a percent of the total source operating time during that reporting period.

(6) A breakdown of the total duration of the deviations during the reporting period into those that are due to control equipment problems, process problems, other known causes, and other unknown causes.

(7) A summary of the total duration of CMS downtime during the reporting period, and the total duration of CMS downtime as a percent of the total operating time of the stationary RICE at which the CMS downtime occurred during that reporting period.

(8) An identification of each parameter and pollutant (CO or formaldehyde) that was monitored at the stationary RICE.

(9) A brief description of the stationary RICE.

(10) A brief description of the CMS.

(11) The date of the latest CMS certification or audit.

(12) A description of any changes in CMS, processes, or controls since the last reporting period.

(f) Each affected source that has obtained a title V operating permit pursuant to 40 CFR part 70 or 71 must report all deviations as defined in this subpart in the semiannual monitoring report required by 40 CFR 70.6 (a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A). If an affected source submits a Compliance report pursuant to Table 7 of this subpart along with, or as part of, the semiannual monitoring report required by 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A), and the Compliance report includes all required information concerning deviations from any emission or operating limitation in this subpart, submission of the Compliance report shall be deemed to satisfy any obligation to report the same deviations in the semiannual monitoring report. However, submission of a Compliance report shall not otherwise affect any obligation the affected source may have to report deviations from permit requirements to the permit authority.

(g) If you are operating as a new or reconstructed stationary RICE which fires landfill gas or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis, you must submit an annual report according to Table 7 of this subpart by the date specified unless the Administrator has approved a different schedule, according to the information described in paragraphs (b)(1) through (b)(5) of this section. You must report the data specified in (g)(1) through (g)(3) of this section.

(1) Fuel flow rate of each fuel and the heating values that were used in your calculations. You must also demonstrate that the percentage of heat input provided by landfill gas or digester gas is equivalent to 10 percent or more of the total fuel consumption on an annual basis.

(2) The operating limits provided in your federally enforceable permit, and any deviations from these limits.

(3) Any problems or errors suspected with the meters.

[69 FR 33506, June 15, 2004, as amended at 75 FR 9677, Mar. 3, 2010]

§ 63.6655 What records must I keep?

(a) If you must comply with the emission and operating limitations, you must keep the records described in paragraphs (a)(1) through (a)(5), (b)(1) through (b)(3) and (c) of this section.

(1) A copy of each notification and report that you submitted to comply with this subpart, including all documentation supporting any Initial Notification or Notification of Compliance Status that you submitted, according to the requirement in §63.10(b)(2)(xiv).

(2) Records of the occurrence and duration of each malfunction of operation (*i.e.*, process equipment) or the air pollution control and monitoring equipment.

(3) Records of performance tests and performance evaluations as required in §63.10(b)(2)(viii).

(4) Records of all required maintenance performed on the air pollution control and monitoring equipment.

(5) Records of actions taken during periods of malfunction to minimize emissions in accordance with §63.6605(b), including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation.

(b) For each CEMS or CPMS, you must keep the records listed in paragraphs (b)(1) through (3) of this section.

(1) Records described in §63.10(b)(2)(vi) through (xi).

(2) Previous (*i.e.*, superseded) versions of the performance evaluation plan as required in §63.8(d)(3).

(3) Requests for alternatives to the relative accuracy test for CEMS or CPMS as required in §63.8(f)(6)(i), if applicable.

(c) If you are operating a new or reconstructed stationary RICE which fires landfill gas or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis, you must keep the records of your daily fuel usage monitors.

(d) You must keep the records required in Table 6 of this subpart to show continuous compliance with each emission or operating limitation that applies to you.

(e) You must keep records of the maintenance conducted on the stationary RICE in order to demonstrate that you operated and maintained the stationary RICE and after-treatment control device (if any) according to your own maintenance plan if you own or operate any of the following stationary RICE;

(1) An existing stationary RICE with a site rating of less than 100 brake HP located at a major source of HAP emissions.

(2) An existing stationary emergency RICE.

(3) An existing stationary RICE located at an area source of HAP emissions subject to management practices as shown in Table 2d to this subpart.

(f) If you own or operate any of the stationary RICE in paragraphs (f)(1) or (2) of this section, you must keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter. The owner or operator must document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation. If the engines are used for demand response operation, the owner or operator must keep records of the notification of the emergency situation, and the time the engine was operated as part of demand response.

(1) An existing emergency stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions that does not meet the standards applicable to non-emergency engines.

(2) An existing emergency stationary RICE located at an area source of HAP emissions that does not meet the standards applicable to non-emergency engines.

[69 FR 33506, June 15, 2004, as amended at 75 FR 9678, Mar. 3, 2010; 75 FR 51592, Aug. 20, 2010]

§ 63.6660 In what form and how long must I keep my records?

(a) Your records must be in a form suitable and readily available for expeditious review according to §63.10(b)(1).

(b) As specified in §63.10(b)(1), you must keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.

(c) You must keep each record readily accessible in hard copy or electronic form for at least 5 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to §63.10(b)(1).

[69 FR 33506, June 15, 2004, as amended at 75 FR 9678, Mar. 3, 2010]

Other Requirements and Information

§ 63.6665 What parts of the General Provisions apply to me?

Table 8 to this subpart shows which parts of the General Provisions in §§63.1 through 63.15 apply to you. If you own or operate a new or reconstructed stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions (except new or reconstructed 4SLB engines greater than or equal to 250 and less than or equal to 500 brake HP), a new or reconstructed stationary RICE located at an area source of HAP emissions, or any of the following RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions, you do not need to comply with any of the requirements of the General Provisions specified in Table 8: An existing 2SLB stationary RICE, an existing 4SLB stationary RICE, an existing stationary RICE that combusts landfill or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis, an existing emergency stationary RICE, or an existing limited use stationary RICE. If you own or operate any of the following RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions, you do not need to comply with the requirements in the General Provisions specified in Table 8 except for the initial notification requirements: A new stationary RICE that combusts landfill gas or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis, a new emergency stationary RICE, or a new limited use stationary RICE.

[75 FR 9678, Mar. 3, 2010]

§ 63.6670 Who implements and enforces this subpart?

(a) This subpart is implemented and enforced by the U.S. EPA, or a delegated authority such as your State, local, or tribal agency. If the U.S. EPA Administrator has delegated authority to your State, local, or tribal agency, then that agency (as well as the U.S. EPA) has the authority to implement and enforce this subpart. You should contact your U.S. EPA Regional Office to find out whether this subpart is delegated to your State, local, or tribal agency.

(b) In delegating implementation and enforcement authority of this subpart to a State, local, or tribal agency under 40 CFR part 63, subpart E, the authorities contained in paragraph (c) of this section are retained by the Administrator of the U.S. EPA and are not transferred to the State, local, or tribal agency.

(c) The authorities that will not be delegated to State, local, or tribal agencies are:

- (1) Approval of alternatives to the non-opacity emission limitations and operating limitations in §63.6600 under §63.6(g).
- (2) Approval of major alternatives to test methods under §63.7(e)(2)(ii) and (f) and as defined in §63.90.
- (3) Approval of major alternatives to monitoring under §63.8(f) and as defined in §63.90.
- (4) Approval of major alternatives to recordkeeping and reporting under §63.10(f) and as defined in §63.90.
- (5) Approval of a performance test which was conducted prior to the effective date of the rule, as specified in §63.6610(b).

§ 63.6675 What definitions apply to this subpart?

Terms used in this subpart are defined in the Clean Air Act (CAA); in 40 CFR 63.2, the General Provisions of this part; and in this section as follows:

Area source means any stationary source of HAP that is not a major source as defined in part 63.

Associated equipment as used in this subpart and as referred to in section 112(n)(4) of the CAA, means equipment associated with an oil or natural gas exploration or production well, and includes all equipment from the well bore to the point of custody transfer, except glycol dehydration units, storage vessels with potential for flash emissions, combustion turbines, and stationary RICE.

Black start engine means an engine whose only purpose is to start up a combustion turbine.

CAA means the Clean Air Act (42 U.S.C. 7401 *et seq.*, as amended by Public Law 101–549, 104 Stat. 2399).

Commercial emergency stationary RICE means an emergency stationary RICE used in commercial establishments such as office buildings, hotels, stores, telecommunications facilities, restaurants, financial institutions such as banks, doctor's offices, and sports and performing arts facilities.

Compression ignition means relating to a type of stationary internal combustion engine that is not a spark ignition engine.

Custody transfer means the transfer of hydrocarbon liquids or natural gas: After processing and/or treatment in the producing operations, or from storage vessels or automatic transfer facilities or other such equipment, including product loading racks, to pipelines or any other forms of transportation. For the purposes of this subpart, the point at which such liquids or natural gas enters a natural gas processing plant is a point of custody transfer.

Deviation means any instance in which an affected source subject to this subpart, or an owner or operator of such a source:

- (1) Fails to meet any requirement or obligation established by this subpart, including but not limited to any emission limitation or operating limitation;

(2) Fails to meet any term or condition that is adopted to implement an applicable requirement in this subpart and that is included in the operating permit for any affected source required to obtain such a permit; or

(3) Fails to meet any emission limitation or operating limitation in this subpart during malfunction, regardless of whether or not such failure is permitted by this subpart.

(4) Fails to satisfy the general duty to minimize emissions established by §63.6(e)(1)(i).

Diesel engine means any stationary RICE in which a high boiling point liquid fuel injected into the combustion chamber ignites when the air charge has been compressed to a temperature sufficiently high for auto-ignition. This process is also known as compression ignition.

Diesel fuel means any liquid obtained from the distillation of petroleum with a boiling point of approximately 150 to 360 degrees Celsius. One commonly used form is fuel oil number 2. Diesel fuel also includes any non-distillate fuel with comparable physical and chemical properties (e.g. biodiesel) that is suitable for use in compression ignition engines.

Digester gas means any gaseous by-product of wastewater treatment typically formed through the anaerobic decomposition of organic waste materials and composed principally of methane and CO₂.

Dual-fuel engine means any stationary RICE in which a liquid fuel (typically diesel fuel) is used for compression ignition and gaseous fuel (typically natural gas) is used as the primary fuel.

Emergency stationary RICE means any stationary internal combustion engine whose operation is limited to emergency situations and required testing and maintenance. Examples include stationary RICE used to produce power for critical networks or equipment (including power supplied to portions of a facility) when electric power from the local utility (or the normal power source, if the facility runs on its own power production) is interrupted, or stationary RICE used to pump water in the case of fire or flood, etc. Stationary RICE used for peak shaving are not considered emergency stationary RICE. Stationary RICE used to supply power to an electric grid or that supply non-emergency power as part of a financial arrangement with another entity are not considered to be emergency engines, except as permitted under §63.6640(f). All emergency stationary RICE must comply with the requirements specified in §63.6640(f) in order to be considered emergency stationary RICE. If the engine does not comply with the requirements specified in §63.6640(f), then it is not considered to be an emergency stationary RICE under this subpart.

Engine startup means the time from initial start until applied load and engine and associated equipment reaches steady state or normal operation. For stationary engine with catalytic controls, engine startup means the time from initial start until applied load and engine and associated equipment, including the catalyst, reaches steady state or normal operation.

Four-stroke engine means any type of engine which completes the power cycle in two crankshaft revolutions, with intake and compression strokes in the first revolution and power and exhaust strokes in the second revolution.

Gaseous fuel means a material used for combustion which is in the gaseous state at standard atmospheric temperature and pressure conditions.

Gasoline means any fuel sold in any State for use in motor vehicles and motor vehicle engines, or nonroad or stationary engines, and commonly or commercially known or sold as gasoline.

Glycol dehydration unit means a device in which a liquid glycol (including, but not limited to, ethylene glycol, diethylene glycol, or triethylene glycol) absorbent directly contacts a natural gas stream and

absorbs water in a contact tower or absorption column (absorber). The glycol contacts and absorbs water vapor and other gas stream constituents from the natural gas and becomes "rich" glycol. This glycol is then regenerated in the glycol dehydration unit reboiler. The "lean" glycol is then recycled.

Hazardous air pollutants (HAP) means any air pollutants listed in or pursuant to section 112(b) of the CAA.

Institutional emergency stationary RICE means an emergency stationary RICE used in institutional establishments such as medical centers, nursing homes, research centers, institutions of higher education, correctional facilities, elementary and secondary schools, libraries, religious establishments, police stations, and fire stations.

ISO standard day conditions means 288 degrees Kelvin (15 degrees Celsius), 60 percent relative humidity and 101.3 kilopascals pressure.

Landfill gas means a gaseous by-product of the land application of municipal refuse typically formed through the anaerobic decomposition of waste materials and composed principally of methane and CO₂.

Lean burn engine means any two-stroke or four-stroke spark ignited engine that does not meet the definition of a rich burn engine.

Limited use stationary RICE means any stationary RICE that operates less than 100 hours per year.

Liquefied petroleum gas means any liquefied hydrocarbon gas obtained as a by-product in petroleum refining of natural gas production.

Liquid fuel means any fuel in liquid form at standard temperature and pressure, including but not limited to diesel, residual/crude oil, kerosene/naphtha (jet fuel), and gasoline.

Major Source, as used in this subpart, shall have the same meaning as in §63.2, except that:

(1) Emissions from any oil or gas exploration or production well (with its associated equipment (as defined in this section)) and emissions from any pipeline compressor station or pump station shall not be aggregated with emissions from other similar units, to determine whether such emission points or stations are major sources, even when emission points are in a contiguous area or under common control;

(2) For oil and gas production facilities, emissions from processes, operations, or equipment that are not part of the same oil and gas production facility, as defined in §63.1271 of subpart HHH of this part, shall not be aggregated;

(3) For production field facilities, only HAP emissions from glycol dehydration units, storage vessel with the potential for flash emissions, combustion turbines and reciprocating internal combustion engines shall be aggregated for a major source determination; and

(4) Emissions from processes, operations, and equipment that are not part of the same natural gas transmission and storage facility, as defined in §63.1271 of subpart HHH of this part, shall not be aggregated.

Malfunction means any sudden, infrequent, and not reasonably preventable failure of air pollution control equipment, process equipment, or a process to operate in a normal or usual manner which causes, or has the potential to cause, the emission limitations in an applicable standard to be exceeded. Failures that are caused in part by poor maintenance or careless operation are not malfunctions.

Natural gas means a naturally occurring mixture of hydrocarbon and non-hydrocarbon gases found in geologic formations beneath the Earth's surface, of which the principal constituent is methane. Natural gas may be field or pipeline quality.

Non-selective catalytic reduction (NSCR) means an add-on catalytic nitrogen oxides (NO_x) control device for rich burn engines that, in a two-step reaction, promotes the conversion of excess oxygen, NO_x, CO, and volatile organic compounds (VOC) into CO₂, nitrogen, and water.

Oil and gas production facility as used in this subpart means any grouping of equipment where hydrocarbon liquids are processed, upgraded (*i.e.*, remove impurities or other constituents to meet contract specifications), or stored prior to the point of custody transfer; or where natural gas is processed, upgraded, or stored prior to entering the natural gas transmission and storage source category. For purposes of a major source determination, facility (including a building, structure, or installation) means oil and natural gas production and processing equipment that is located within the boundaries of an individual surface site as defined in this section. Equipment that is part of a facility will typically be located within close proximity to other equipment located at the same facility. Pieces of production equipment or groupings of equipment located on different oil and gas leases, mineral fee tracts, lease tracts, subsurface or surface unit areas, surface fee tracts, surface lease tracts, or separate surface sites, whether or not connected by a road, waterway, power line or pipeline, shall not be considered part of the same facility. Examples of facilities in the oil and natural gas production source category include, but are not limited to, well sites, satellite tank batteries, central tank batteries, a compressor station that transports natural gas to a natural gas processing plant, and natural gas processing plants.

Oxidation catalyst means an add-on catalytic control device that controls CO and VOC by oxidation.

Peaking unit or engine means any standby engine intended for use during periods of high demand that are not emergencies.

Percent load means the fractional power of an engine compared to its maximum manufacturer's design capacity at engine site conditions. Percent load may range between 0 percent to above 100 percent.

Potential to emit means the maximum capacity of a stationary source to emit a pollutant under its physical and operational design. Any physical or operational limitation on the capacity of the stationary source to emit a pollutant, including air pollution control equipment and restrictions on hours of operation or on the type or amount of material combusted, stored, or processed, shall be treated as part of its design if the limitation or the effect it would have on emissions is federally enforceable. For oil and natural gas production facilities subject to subpart HH of this part, the potential to emit provisions in §63.760(a) may be used. For natural gas transmission and storage facilities subject to subpart HHH of this part, the maximum annual facility gas throughput for storage facilities may be determined according to §63.1270(a)(1) and the maximum annual throughput for transmission facilities may be determined according to §63.1270(a)(2).

Production field facility means those oil and gas production facilities located prior to the point of custody transfer.

Production well means any hole drilled in the earth from which crude oil, condensate, or field natural gas is extracted.

Propane means a colorless gas derived from petroleum and natural gas, with the molecular structure C₃H₈.

Residential emergency stationary RICE means an emergency stationary RICE used in residential establishments such as homes or apartment buildings.

Responsible official means responsible official as defined in 40 CFR 70.2.

Rich burn engine means any four-stroke spark ignited engine where the manufacturer's recommended operating air/fuel ratio divided by the stoichiometric air/fuel ratio at full load conditions is less than or equal to 1.1. Engines originally manufactured as rich burn engines, but modified prior to December 19, 2002 with passive emission control technology for NO_x (such as pre-combustion chambers) will be considered lean burn engines. Also, existing engines where there are no manufacturer's recommendations regarding air/fuel ratio will be considered a rich burn engine if the excess oxygen content of the exhaust at full load conditions is less than or equal to 2 percent.

Site-rated HP means the maximum manufacturer's design capacity at engine site conditions.

Spark ignition means relating to either: A gasoline-fueled engine; or any other type of engine with a spark plug (or other sparking device) and with operating characteristics significantly similar to the theoretical Otto combustion cycle. Spark ignition engines usually use a throttle to regulate intake air flow to control power during normal operation. Dual-fuel engines in which a liquid fuel (typically diesel fuel) is used for CI and gaseous fuel (typically natural gas) is used as the primary fuel at an annual average ratio of less than 2 parts diesel fuel to 100 parts total fuel on an energy equivalent basis are spark ignition engines.

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

Stationary RICE test cell/stand means an engine test cell/stand, as defined in subpart P of this part, that tests stationary RICE.

Stoichiometric means the theoretical air-to-fuel ratio required for complete combustion.

Storage vessel with the potential for flash emissions means any storage vessel that contains a hydrocarbon liquid with a stock tank gas-to-oil ratio equal to or greater than 0.31 cubic meters per liter and an American Petroleum Institute gravity equal to or greater than 40 degrees and an actual annual average hydrocarbon liquid throughput equal to or greater than 79,500 liters per day. Flash emissions occur when dissolved hydrocarbons in the fluid evolve from solution when the fluid pressure is reduced.

Subpart means 40 CFR part 63, subpart ZZZZ.

Surface site means any combination of one or more graded pad sites, gravel pad sites, foundations, platforms, or the immediate physical location upon which equipment is physically affixed.

Two-stroke engine means a type of engine which completes the power cycle in single crankshaft revolution by combining the intake and compression operations into one stroke and the power and exhaust operations into a second stroke. This system requires auxiliary scavenging and inherently runs lean of stoichiometric.

[69 FR 33506, June 15, 2004, as amended at 71 FR 20467, Apr. 20, 2006; 73 FR 3607, Jan. 18, 2008; 75 FR 9679, Mar. 3, 2010; 75 FR 51592, Aug. 20, 2010; 76 FR 12867, Mar. 9, 2011]

Table 1 to Subpart ZZZZ of Part 63—Emission Limitations for Existing, New, and Reconstructed Spark Ignition, 4SRB Stationary RICE >500 HP Located at a Major Source of HAP Emissions

As stated in §§63.6600 and 63.6640, you must comply with the following emission limitations at 100 percent load plus or minus 10 percent for existing, new and reconstructed 4SRB stationary RICE >500 HP located at a major source of HAP emissions:

For each . . .	You must meet the following emission limitation, except during periods of startup . . .	During periods of startup you must . . .
1. 4SRB stationary RICE	a. Reduce formaldehyde emissions by 76 percent or more. If you commenced construction or reconstruction between December 19, 2002 and June 15, 2004, you may reduce formaldehyde emissions by 75 percent or more until June 15, 2007 or	Minimize the engine's time spent at idle and minimize the engine's startup time at startup to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the non-startup emission limitations apply. ¹
	b. Limit the concentration of formaldehyde in the stationary RICE exhaust to 350 ppbvd or less at 15 percent O ₂	

¹Sources can petition the Administrator pursuant to the requirements of 40 CFR 63.6(g) for alternative work practices.

[75 FR 9679, Mar. 3, 2010, as amended at 75 FR 51592, Aug. 20, 2010]

Table 1bto Subpart ZZZZ of Part 63—Operating Limitations for Existing, New, and Reconstructed Spark Ignition 4SRB Stationary RICE >500 HP Located at a Major Source of HAP Emissions and Existing Spark Ignition 4SRB Stationary RICE >500 HP Located at an Area Source of HAP Emissions

As stated in §§63.6600, 63.6603, 63.6630 and 63.6640, you must comply with the following operating limitations for existing, new and reconstructed 4SRB stationary RICE >500 HP located at a major source of HAP emissions and existing 4SRB stationary RICE >500 HP located at an area source of HAP emissions that operate more than 24 hours per calendar year:

For each . . .	You must meet the following operating limitation . . .
1. 4SRB stationary RICE complying with the requirement to reduce formaldehyde emissions by 76 percent or more (or by 75 percent or more, if applicable) and using NSCR; or 4SRB stationary RICE complying with the requirement to limit the concentration of formaldehyde in the stationary RICE exhaust to 350 ppbvd or less at 15 percent O ₂ and using NSCR; or 4SRB stationary RICE complying with the requirement to limit the concentration of formaldehyde in the stationary RICE exhaust to 2.7 ppmvd or less at 15 percent O ₂ and using NSCR.	a. Maintain your catalyst so that the pressure drop across the catalyst does not change by more than 2 inches of water at 100 percent load plus or minus 10 percent from the pressure drop across the catalyst measured during the initial performance test; and b. Maintain the temperature of your stationary RICE exhaust so that the catalyst inlet temperature is greater than or equal to 750 °F and less than or equal to 1250 °F.
2. 4SRB stationary RICE complying with the requirement to reduce formaldehyde emissions by 76 percent or more (or by 75	Comply with any operating limitations approved by the Administrator.

For each . . .	You must meet the following operating limitation . . .
percent or more, if applicable) and not using NSCR; or 4SRB stationary RICE complying with the requirement to limit the concentration of formaldehyde in the stationary RICE exhaust to 350 ppbvd or less at 15 percent O ₂ and not using NSCR; or 4SRB stationary RICE complying with the requirement to limit the concentration of formaldehyde in the stationary RICE exhaust to 2.7 ppmvd or less at 15 percent O ₂ and not using NSCR.	

[76 FR 12867, Mar. 9, 2011]

Table 2ato Subpart ZZZZ of Part 63—Emission Limitations for New and Reconstructed 2SLB and Compression Ignition Stationary RICE >500 HP and New and Reconstructed 4SLB Stationary RICE ≥250 HP Located at a Major Source of HAP Emissions

As stated in §§63.6600 and 63.6640, you must comply with the following emission limitations for new and reconstructed lean burn and new and reconstructed compression ignition stationary RICE at 100 percent load plus or minus 10 percent:

For each . . .	You must meet the following emission limitation, except during periods of startup . . .	During periods of startup you must . . .
1. 2SLB stationary RICE	a. Reduce CO emissions by 58 percent or more; or b. Limit concentration of formaldehyde in the stationary RICE exhaust to 12 ppmvd or less at 15 percent O ₂ . If you commenced construction or reconstruction between December 19, 2002 and June 15, 2004, you may limit concentration of formaldehyde to 17 ppmvd or less at 15 percent O ₂ until June 15, 2007	Minimize the engine's time spent at idle and minimize the engine's startup time at startup to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the non-startup emission limitations apply. ¹
2. 4SLB stationary RICE	a. Reduce CO emissions by 93 percent or more; or b. Limit concentration of formaldehyde in the stationary RICE exhaust to 14 ppmvd or less at 15 percent O ₂	
3. CI stationary RICE	a. Reduce CO emissions by 70 percent or more; or b. Limit concentration of formaldehyde in the stationary RICE exhaust to 580 ppbvd or less at 15 percent O ₂	

¹Sources can petition the Administrator pursuant to the requirements of 40 CFR 63.6(g) for alternative work practices.

[75 FR 9680, Mar. 3, 2010]

Table 2bto Subpart ZZZZ of Part 63— Operating Limitations for New and Reconstructed 2SLB and Compression Ignition Stationary RICE >500 HP Located at a Major Source of HAP Emissions, New and Reconstructed 4SLB Stationary RICE ≥250 HP Located at a Major Source of HAP Emissions, Existing Compression Ignition Stationary RICE >500 HP, and Existing 4SLB Stationary RICE >500 HP Located at an Area Source of HAP Emissions

As stated in §§63.6600, 63.6601, 63.6603, 63.6630, and 63.6640, you must comply with the following operating limitations for new and reconstructed 2SLB and compression ignition stationary RICE located at a major source of HAP emissions; new and reconstructed 4SLB stationary RICE ≥250 HP located at a major source of HAP emissions; existing compression ignition stationary RICE >500 HP; and existing 4SLB stationary RICE >500 HP located at an area source of HAP emissions that operate more than 24 hours per calendar year:

For each . . .	You must meet the following operating limitation . . .
1. 2SLB and 4SLB stationary RICE and CI stationary RICE complying with the requirement to reduce CO emissions and using an oxidation catalyst; or 2SLB and 4SLB stationary RICE and CI stationary RICE complying with the requirement to limit the concentration of formaldehyde in the stationary RICE exhaust and using an oxidation catalyst; or 4SLB stationary RICE and CI stationary RICE complying with the requirement to limit the concentration of CO in the stationary RICE exhaust and using an oxidation catalyst	a. maintain your catalyst so that the pressure drop across the catalyst does not change by more than 2 inches of water at 100 percent load plus or minus 10 percent from the pressure drop across the catalyst that was measured during the initial performance test; and b. maintain the temperature of your stationary RICE exhaust so that the catalyst inlet temperature is greater than or equal to 450 °F and less than or equal to 1350 °F. ¹
2. 2SLB and 4SLB stationary RICE and CI stationary RICE complying with the requirement to reduce CO emissions and not using an oxidation catalyst; or 2SLB and 4SLB stationary RICE and CI stationary RICE complying with the requirement to limit the concentration of formaldehyde in the stationary RICE exhaust and not using an oxidation catalyst; or 4SLB stationary RICE and CI stationary RICE complying with the requirement to limit the concentration of CO in the stationary RICE exhaust and not using an oxidation catalyst	Comply with any operating limitations approved by the Administrator.

¹Sources can petition the Administrator pursuant to the requirements of 40 CFR 63.8(g) for a different temperature range.

[75 FR 51593, Aug. 20, 2010, as amended at 76 FR 12867, Mar. 9, 2011]

Table 2cto Subpart ZZZZ of Part 63—Requirements for Existing Compression Ignition Stationary RICE Located at a Major Source of HAP Emissions and Existing Spark Ignition Stationary RICE ≤500 HP Located at a Major Source of HAP Emissions

As stated in §§63.6600, 63.6602, and 63.6640, you must comply with the following requirements for existing compression ignition stationary RICE located at a major source of HAP emissions and existing spark ignition stationary RICE ≤500 HP located at a major source of HAP emissions:

For each . . .	You must meet the following requirement, except during periods of startup . . .	During periods of startup you must . . .
1. Emergency stationary CI RICE and black start stationary CI RICE. ¹	a. Change oil and filter every 500 hours of operation or annually, whichever comes first; ² b. Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first; c. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary. ³	Minimize the engine's time spent at idle and minimize the engine's startup time at startup to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the non-startup emission limitations apply. ³
2. Non-Emergency, non-black start stationary CI RICE <100 HP	a. Change oil and filter every 1,000 hours of operation or annually, whichever comes first; ²	
	b. Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first;	
	c. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary. ³	
3. Non-Emergency, non-black start CI stationary RICE 100≤HP≤300 HP	Limit concentration of CO in the stationary RICE exhaust to 230 ppmvd or less at 15 percent O ₂	
4. Non-Emergency, non-black start CI stationary RICE 300<HP≤500	a. Limit concentration of CO in the stationary RICE exhaust to 49 ppmvd or less at 15 percent O ₂ ; or	
	b. Reduce CO emissions by 70 percent or more.	
5. Non-Emergency, non-black start stationary CI RICE >500 HP	a. Limit concentration of CO in the stationary RICE exhaust to 23 ppmvd or less at 15 percent O ₂ ; or	
	b. Reduce CO emissions by 70 percent or more.	
6. Emergency stationary SI RICE and black start stationary SI RICE. ¹	a. Change oil and filter every 500 hours of operation or annually, whichever comes first; ²	

For each . . .	You must meet the following requirement, except during periods of startup . . .	During periods of startup you must . . .
	b. Inspect spark plugs every 1,000 hours of operation or annually, whichever comes first;	
	c. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary. ³	
7. Non-Emergency, non-black start stationary SI RICE <100 HP that are not 2SLB stationary RICE	a. Change oil and filter every 1,440 hours of operation or annually, whichever comes first; ²	
	b. Inspect spark plugs every 1,440 hours of operation or annually, whichever comes first;	
	c. Inspect all hoses and belts every 1,440 hours of operation or annually, whichever comes first, and replace as necessary. ³	
8. Non-Emergency, non-black start 2SLB stationary SI RICE <100 HP	a. Change oil and filter every 4,320 hours of operation or annually, whichever comes first; ²	
	b. Inspect spark plugs every 4,320 hours of operation or annually, whichever comes first;	
	c. Inspect all hoses and belts every 4,320 hours of operation or annually, whichever comes first, and replace as necessary. ³	
9. Non-emergency, non-black start 2SLB stationary RICE 100≤HP≤500	Limit concentration of CO in the stationary RICE exhaust to 225 ppmvd or less at 15 percent O ₂	
10. Non-emergency, non-black start 4SLB stationary RICE 100≤HP≤500	Limit concentration of CO in the stationary RICE exhaust to 47 ppmvd or less at 15 percent O ₂	
11. Non-emergency, non-black start 4SRB	Limit concentration of formaldehyde in the stationary	

For each . . .	You must meet the following requirement, except during periods of startup . . .	During periods of startup you must . . .
stationary RICE 100≤HP≤500	RICE exhaust to 10.3 ppmvd or less at 15 percent O ₂	
12. Non-emergency, non-black start landfill or digester gas-fired stationary RICE 100≤HP≤500	Limit concentration of CO in the stationary RICE exhaust to 177 ppmvd or less at 15 percent O ₂	

¹If an emergency engine is operating during an emergency and it is not possible to shut down the engine in order to perform the work practice requirements on the schedule required in Table 2c of this subpart, or if performing the work practice on the required schedule would otherwise pose an unacceptable risk under Federal, State, or local law, the work practice can be delayed until the emergency is over or the unacceptable risk under Federal, State, or local law has abated. The work practice should be performed as soon as practicable after the emergency has ended or the unacceptable risk under Federal, State, or local law has abated. Sources must report any failure to perform the work practice on the schedule required and the Federal, State or local law under which the risk was deemed unacceptable.

²Sources have the option to utilize an oil analysis program as described in §63.6625(i) in order to extend the specified oil change requirement in Table 2c of this subpart.

³Sources can petition the Administrator pursuant to the requirements of 40 CFR 63.6(g) for alternative work practices.

[75 FR 51593, Aug. 20, 2010]

Table 2dto Subpart ZZZZ of Part 63— Requirements for Existing Stationary RICE Located at Area Sources of HAP Emissions

As stated in §§63.6603 and 63.6640, you must comply with the following requirements for existing stationary RICE located at area sources of HAP emissions:

For each . . .	You must meet the following requirement, except during periods of startup . . .	During periods of startup you must . . .
1. Non-Emergency, non-black start CI stationary RICE ≤300 HP	a. Change oil and filter every 1,000 hours of operation or annually, whichever comes first; ¹	Minimize the engine's time spent at idle and minimize the engine's startup time at startup to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the non-startup emission limitations apply.
	b. Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first;	

For each . . .	You must meet the following requirement, except during periods of startup . . .	During periods of startup you must . . .
	c. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.	
2. Non-Emergency, non-black start CI stationary RICE 300<HP≤500	a. Limit concentration of CO in the stationary RICE exhaust to 49 ppmvd at 15 percent O ₂ ; or	
	b. Reduce CO emissions by 70 percent or more.	
3. Non-Emergency, non-black start CI stationary RICE >500 HP	a. Limit concentration of CO in the stationary RICE exhaust to 23 ppmvd at 15 percent O ₂ ; or	
	b. Reduce CO emissions by 70 percent or more.	
4. Emergency stationary CI RICE and black start stationary CI RICE. ²	a. Change oil and filter every 500 hours of operation or annually, whichever comes first; ¹	
	b. Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first; and	
	c. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.	
5. Emergency stationary SI RICE; black start stationary SI RICE; non-emergency, non-black start 4SLB stationary RICE >500 HP that operate 24 hours or less per calendar year; non-emergency, non-black start 4SRB stationary RICE >500 HP that operate 24 hours or less per calendar year. ²	a. Change oil and filter every 500 hours of operation or annually, whichever comes first; ¹ b. Inspect spark plugs every 1,000 hours of operation or annually, whichever comes first; and c. Inspect all hoses and	

For each . . .	You must meet the following requirement, except during periods of startup . . .	During periods of startup you must . . .
	belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.	
6. Non-emergency, non-black start 2SLB stationary RICE	a. Change oil and filter every 4,320 hours of operation or annually, whichever comes first; ¹	
	b. Inspect spark plugs every 4,320 hours of operation or annually, whichever comes first; and	
	c. Inspect all hoses and belts every 4,320 hours of operation or annually, whichever comes first, and replace as necessary.	
7. Non-emergency, non-black start 4SLB stationary RICE ≤500 HP	a. Change oil and filter every 1,440 hours of operation or annually, whichever comes first; ¹	
	b. Inspect spark plugs every 1,440 hours of operation or annually, whichever comes first; and	
	c. Inspect all hoses and belts every 1,440 hours of operation or annually, whichever comes first, and replace as necessary.	
8. Non-emergency, non-black start 4SLB stationary RICE >500 HP	a. Limit concentration of CO in the stationary RICE exhaust to 47 ppmvd at 15 percent O ₂ ; or	
	b. Reduce CO emissions by 93 percent or more.	
9. Non-emergency, non-black start 4SRB stationary RICE ≤500 HP	a. Change oil and filter every 1,440 hours of operation or annually,	

For each . . .	You must meet the following requirement, except during periods of startup . . .	During periods of startup you must . . .
	whichever comes first; ¹	
	b. Inspect spark plugs every 1,440 hours of operation or annually, whichever comes first; and	
	c. Inspect all hoses and belts every 1,440 hours of operation or annually, whichever comes first, and replace as necessary.	
10. Non-emergency, non-black start 4SRB stationary RICE >500 HP	a. Limit concentration of formaldehyde in the stationary RICE exhaust to 2.7 ppmvd at 15 percent O ₂ ; or	
	b. Reduce formaldehyde emissions by 76 percent or more.	
11. Non-emergency, non-black start landfill or digester gas-fired stationary RICE	a. Change oil and filter every 1,440 hours of operation or annually, whichever comes first; ¹	
	b. Inspect spark plugs every 1,440 hours of operation or annually, whichever comes first; and	
	c. Inspect all hoses and belts every 1,440 hours of operation or annually, whichever comes first, and replace as necessary.	

¹Sources have the option to utilize an oil analysis program as described in §63.6625(i) in order to extend the specified oil change requirement in Table 2d of this subpart.

²If an emergency engine is operating during an emergency and it is not possible to shut down the engine in order to perform the management practice requirements on the schedule required in Table 2d of this subpart, or if performing the management practice on the required schedule would otherwise pose an unacceptable risk under Federal, State, or local law, the management practice can be delayed until the emergency is over or the unacceptable risk under Federal, State, or local law has abated. The management practice should be performed as soon as practicable after the emergency has ended or the

unacceptable risk under Federal, State, or local law has abated. Sources must report any failure to perform the management practice on the schedule required and the Federal, State or local law under which the risk was deemed unacceptable.

[75 FR 51595, Aug. 20, 2010]

Table 3 to Subpart ZZZZ of Part 63—Subsequent Performance Tests

As stated in §§63.6615 and 63.6620, you must comply with the following subsequent performance test requirements:

For each . . .	Complying with the requirement to . . .	You must . . .
1. New or reconstructed 2SLB stationary RICE with a brake horsepower >500 located at major sources; new or reconstructed 4SLB stationary RICE with a brake horsepower ≥250 located at major sources; and new or reconstructed CI stationary RICE with a brake horsepower >500 located at major sources	Reduce CO emissions and not using a CEMS	Conduct subsequent performance tests semiannually. ¹
2. 4SRB stationary RICE with a brake horsepower ≥5,000 located at major sources	Reduce formaldehyde emissions	Conduct subsequent performance tests semiannually. ¹
3. Stationary RICE with a brake horsepower >500 located at major sources and new or reconstructed 4SLB stationary RICE with a brake horsepower 250≤HP≤500 located at major sources	Limit the concentration of formaldehyde in the stationary RICE exhaust	Conduct subsequent performance tests semiannually. ¹
4. Existing non-emergency, non-black start CI stationary RICE with a brake horsepower >500 that are not limited use stationary RICE; existing non-emergency, non-black start 4SLB and 4SRB stationary RICE located at an area source of HAP emissions with a brake horsepower >500 that are operated more than 24 hours per calendar year that are not limited use stationary RICE	Limit or reduce CO or formaldehyde emissions	Conduct subsequent performance tests every 8,760 hrs. or 3 years, whichever comes first.
5. Existing non-emergency, non-black start CI stationary RICE with a brake horsepower >500 that are limited use stationary RICE; existing non-emergency, non-black start 4SLB and 4SRB stationary RICE located at an area source of HAP emissions with a brake horsepower >500 that are operated more than 24 hours per calendar year and are limited use stationary RICE	Limit or reduce CO or formaldehyde emissions	Conduct subsequent performance tests every 8,760 hrs. or 5 years, whichever comes first.

¹After you have demonstrated compliance for two consecutive tests, you may reduce the frequency of subsequent performance tests to annually. If the results of any subsequent annual performance test indicate the stationary RICE is not in compliance with the CO or formaldehyde emission limitation, or you deviate from any of your operating limitations, you must resume semiannual performance tests.

[75 FR 51596, Aug. 20, 2010]

Table 4 to Subpart ZZZZ of Part 63—Requirements for Performance Tests

As stated in §§63.6610, 63.6611, 63.6612, 63.6620, and 63.6640, you must comply with the following requirements for performance tests for stationary RICE:

For each . ..	Complying with the requirement to ...	You must ...	Using ...	According to the following requirements ...
1. 2SLB, 4SLB, and CI stationary RICE	a. Reduce CO emissions	i. Measure the O ₂ at the inlet and outlet of the control device; and	(1) Portable CO and O ₂ analyzer	(a) Using ASTM D6522–00 (2005) ^a (incorporated by reference, see §63.14). Measurements to determine O ₂ must be made at the same time as the measurements for CO concentration.
		ii. Measure the CO at the inlet and the outlet of the control device	(1) Portable CO and O ₂ analyzer	(a) Using ASTM D6522–00 (2005) ^{ab} (incorporated by reference, see §63.14) or Method 10 of 40 CFR appendix A. The CO concentration must be at 15 percent O ₂ , dry basis.
2. 4SRB stationary RICE	a. Reduce formaldehyde emissions	i. Select the sampling port location and the number of traverse points; and	(1) Method 1 or 1A of 40 CFR part 60, appendix A §63.7(d)(1)(i)	(a) Sampling sites must be located at the inlet and outlet of the control device.
		ii. Measure O ₂ at the inlet and outlet of the control device; and	(1) Method 3 or 3A or 3B of 40 CFR part 60, appendix A, or ASTM Method D6522–00m (2005)	(a) Measurements to determine O ₂ concentration must be made at the same time as the measurements for formaldehyde concentration.
		iii. Measure moisture content at the inlet and outlet of the control device; and	(1) Method 4 of 40 CFR part 60, appendix A, or Test Method 320 of 40 CFR part 63, appendix A, or ASTM D 6348–03	(a) Measurements to determine moisture content must be made at the same time and location as the measurements for formaldehyde concentration.
		iv. Measure formaldehyde at the inlet and the outlet of the control device	(1) Method 320 or 323 of 40 CFR part 63, appendix A; or ASTM D6348–03, ^c provided in ASTM D6348–03 Annex A5 (Analyte Spiking Technique), the percent R must be greater than or equal to 70 and less than or equal to 130	(a) Formaldehyde concentration must be at 15 percent O ₂ , dry basis. Results of this test consist of the average of the three 1-hour or longer runs.
3.	a. Limit the	i. Select the	(1) Method 1 or 1A of 40	(a) If using a control device,

For each . . .	Complying with the requirement to . . .	You must . . .	Using . . .	According to the following requirements . . .
Stationary RICE	concentration of formaldehyde or CO in the stationary RICE exhaust	sampling port location and the number of traverse points; and	CFR part 60, appendix A §63.7(d)(1)(i)	the sampling site must be located at the outlet of the control device.
		ii. Determine the O ₂ concentration of the stationary RICE exhaust at the sampling port location; and	(1) Method 3 or 3A or 3B of 40 CFR part 60, appendix A, or ASTM Method D6522–00 (2005)	(a) Measurements to determine O ₂ concentration must be made at the same time and location as the measurements for formaldehyde concentration.
		iii. Measure moisture content of the stationary RICE exhaust at the sampling port location; and	(1) Method 4 of 40 CFR part 60, appendix A, or Test Method 320 of 40 CFR part 63, appendix A, or ASTM D 6348–03	(a) Measurements to determine moisture content must be made at the same time and location as the measurements for formaldehyde concentration.
		iv. Measure formaldehyde at the exhaust of the stationary RICE; or	(1) Method 320 or 323 of 40 CFR part 63, appendix A; or ASTM D6348–03, ^c provided in ASTM D6348–03 Annex A5 (Analyte Spiking Technique), the percent R must be greater than or equal to 70 and less than or equal to 130	(a) Formaldehyde concentration must be at 15 percent O ₂ , dry basis. Results of this test consist of the average of the three 1-hour or longer runs.
		v. Measure CO at the exhaust of the stationary RICE	(1) Method 10 of 40 CFR part 60, appendix A, ASTM Method D6522–00 (2005), ^a Method 320 of 40 CFR part 63, appendix A, or ASTM D6348–03	(a) CO Concentration must be at 15 percent O ₂ , dry basis. Results of this test consist of the average of the three 1-hour longer runs.

^aYou may also use Methods 3A and 10 as options to ASTM–D6522–00 (2005). You may obtain a copy of ASTM–D6522–00 (2005) from at least one of the following addresses: American Society for Testing and Materials, 100 Barr Harbor Drive, West Conshohocken, PA 19428–2959, or University Microfilms International, 300 North Zeeb Road, Ann Arbor, MI 48106. ASTM–D6522–00 (2005) may be used to test both CI and SI stationary RICE.

^bYou may also use Method 320 of 40 CFR part 63, appendix A, or ASTM D6348–03.

^cYou may obtain a copy of ASTM–D6348–03 from at least one of the following addresses: American Society for Testing and Materials, 100 Barr Harbor Drive, West Conshohocken, PA 19428–2959, or University Microfilms International, 300 North Zeeb Road, Ann Arbor, MI 48106.

Table 5 to Subpart ZZZZ of Part 63—Initial Compliance With Emission Limitations and Operating Limitations

As stated in §§63.6612, 63.6625 and 63.6630, you must initially comply with the emission and operating limitations as required by the following:

For each . . .	Complying with the requirement to . . .	You have demonstrated initial compliance if . . .
1. New or reconstructed non-emergency 2SLB stationary RICE >500 HP located at a major source of HAP, new or reconstructed non-emergency 4SLB stationary RICE ≥250 HP located at a major source of HAP, non-emergency stationary CI RICE >500 HP located at a major source of HAP, existing non-emergency stationary CI RICE >500 HP located at an area source of HAP, and existing non-emergency 4SLB stationary RICE >500 HP located at an area source of HAP that are operated more than 24 hours per calendar year	a. Reduce CO emissions and using oxidation catalyst, and using a CPMS	i. The average reduction of emissions of CO determined from the initial performance test achieves the required CO percent reduction; and ii. You have installed a CPMS to continuously monitor catalyst inlet temperature according to the requirements in §63.6625(b); and iii. You have recorded the catalyst pressure drop and catalyst inlet temperature during the initial performance test.
2. Non-emergency stationary CI RICE >500 HP located at a major source of HAP, existing non-emergency stationary CI RICE >500 HP located at an area source of HAP, and existing non-emergency 4SLB stationary RICE >500 HP located at an area source of HAP that are operated more than 24 hours per calendar year	a. Limit the concentration of CO, using oxidation catalyst, and using a CPMS	i. The average CO concentration determined from the initial performance test is less than or equal to the CO emission limitation; and ii. You have installed a CPMS to continuously monitor catalyst inlet temperature according to the requirements in §63.6625(b); and iii. You have recorded the catalyst pressure drop and catalyst inlet temperature during the initial performance test.
3. New or reconstructed non-emergency 2SLB stationary RICE >500 HP located at a major source of HAP, new or reconstructed non-emergency 4SLB stationary RICE ≥250 HP located at a major source of HAP, non-emergency stationary CI RICE >500 HP located at a major source of HAP, existing non-emergency stationary CI RICE >500 HP located at an area source of HAP, and existing non-emergency 4SLB stationary RICE >500 HP located at an area source of HAP that are operated more than 24 hours per calendar year	a. Reduce CO emissions and not using oxidation catalyst	i. The average reduction of emissions of CO determined from the initial performance test achieves the required CO percent reduction; and ii. You have installed a CPMS to continuously monitor operating parameters approved by the Administrator (if any) according to the requirements in §63.6625(b); and iii. You have recorded the approved operating parameters (if any) during the initial performance test.
4. Non-emergency stationary CI RICE >500 HP located at a major source of HAP, existing non-emergency stationary CI RICE >500 HP located at an area source of HAP,	a. Limit the concentration of CO, and not using oxidation catalyst	i. The average CO concentration determined from the initial performance test is less than or equal to the CO emission limitation; and

For each . . .	Complying with the requirement to . . .	You have demonstrated initial compliance if . . .
and existing non-emergency 4SLB stationary RICE >500 HP located at an area source of HAP that are operated more than 24 hours per calendar year		ii. You have installed a CPMS to continuously monitor operating parameters approved by the Administrator (if any) according to the requirements in §63.6625(b); and iii. You have recorded the approved operating parameters (if any) during the initial performance test.
5. New or reconstructed non-emergency 2SLB stationary RICE >500 HP located at a major source of HAP, new or reconstructed non-emergency 4SLB stationary RICE ≥250 HP located at a major source of HAP, non-emergency stationary CI RICE >500 HP located at a major source of HAP, existing non-emergency stationary CI RICE >500 HP located at an area source of HAP, and existing non-emergency 4SLB stationary RICE >500 HP located at an area source of HAP that are operated more than 24 hours per calendar year	a. Reduce CO emissions, and using a CEMS	i. You have installed a CEMS to continuously monitor CO and either O ₂ or CO ₂ at both the inlet and outlet of the oxidation catalyst according to the requirements in §63.6625(a); and ii. You have conducted a performance evaluation of your CEMS using PS 3 and 4A of 40 CFR part 60, appendix B; and iii. The average reduction of CO calculated using §63.6620 equals or exceeds the required percent reduction. The initial test comprises the first 4-hour period after successful validation of the CEMS. Compliance is based on the average percent reduction achieved during the 4-hour period.
6. Non-emergency stationary CI RICE >500 HP located at a major source of HAP, existing non-emergency stationary CI RICE >500 HP located at an area source of HAP, and existing non-emergency 4SLB stationary RICE >500 HP located at an area source of HAP that are operated more than 24 hours per calendar year	a. Limit the concentration of CO, and using a CEMS	i. You have installed a CEMS to continuously monitor CO and either O ₂ or CO ₂ at the outlet of the oxidation catalyst according to the requirements in §63.6625(a); and ii. You have conducted a performance evaluation of your CEMS using PS 3 and 4A of 40 CFR part 60, appendix B; and
		iii. The average concentration of CO calculated using §63.6620 is less than or equal to the CO emission limitation. The initial test comprises the first 4-hour period after successful validation of the CEMS. Compliance is based on the average concentration measured during the 4-hour period.
7. Non-emergency 4SRB stationary RICE >500 HP located at a major source of HAP, and existing non-emergency 4SRB stationary RICE >500 HP located at an area source of HAP that are operated more than 24 hours per calendar year	a. Reduce formaldehyde emissions and using NSCR	i. The average reduction of emissions of formaldehyde determined from the initial performance test is equal to or greater than the required formaldehyde percent reduction; and ii. You have installed a CPMS to continuously monitor catalyst inlet

For each . . .	Complying with the requirement to . . .	You have demonstrated initial compliance if . . .
		temperature according to the requirements in §63.6625(b); and
		iii. You have recorded the catalyst pressure drop and catalyst inlet temperature during the initial performance test.
8. Non-emergency 4SRB stationary RICE >500 HP located at a major source of HAP, and existing non-emergency 4SRB stationary RICE >500 HP located at an area source of HAP that are operated more than 24 hours per calendar year	a. Reduce formaldehyde emissions and not using NSCR	i. The average reduction of emissions of formaldehyde determined from the initial performance test is equal to or greater than the required formaldehyde percent reduction; and ii. You have installed a CPMS to continuously monitor operating parameters approved by the Administrator (if any) according to the requirements in §63.6625(b); and
		iii. You have recorded the approved operating parameters (if any) during the initial performance test.
9. Existing non-emergency 4SRB stationary RICE >500 HP located at an area source of HAP that are operated more than 24 hours per calendar year	a. Limit the concentration of formaldehyde and not using NSCR	i. The average formaldehyde concentration determined from the initial performance test is less than or equal to the formaldehyde emission limitation; and
		ii. You have installed a CPMS to continuously monitor operating parameters approved by the Administrator (if any) according to the requirements in §63.6625(b); and
		iii. You have recorded the approved operating parameters (if any) during the initial performance test.
10. New or reconstructed non-emergency stationary RICE >500 HP located at a major source of HAP, new or reconstructed non-emergency 4SLB stationary RICE 250≤HP≤500 located at a major source of HAP, and existing non-emergency 4SRB stationary RICE >500 HP	a. Limit the concentration of formaldehyde in the stationary RICE exhaust and using oxidation catalyst or NSCR	i. The average formaldehyde concentration, corrected to 15 percent O ₂ , dry basis, from the three test runs is less than or equal to the formaldehyde emission limitation; and ii. You have installed a CPMS to continuously monitor catalyst inlet temperature according to the requirements in §63.6625(b); and
		iii. You have recorded the catalyst pressure drop and catalyst inlet temperature during the initial performance test.
11. New or reconstructed non-emergency stationary RICE >500 HP located at a	a. Limit the concentration of	i. The average formaldehyde concentration, corrected to 15 percent

For each . . .	Complying with the requirement to . . .	You have demonstrated initial compliance if . . .
major source of HAP, new or reconstructed non-emergency 4SLB stationary RICE $250 \leq \text{HP} \leq 500$ located at a major source of HAP, and existing non-emergency 4SRB stationary RICE >500 HP	formaldehyde in the stationary RICE exhaust and not using oxidation catalyst or NSCR	O ₂ , dry basis, from the three test runs is less than or equal to the formaldehyde emission limitation; and ii. You have installed a CPMS to continuously monitor operating parameters approved by the Administrator (if any) according to the requirements in §63.6625(b); and
		iii. You have recorded the approved operating parameters (if any) during the initial performance test.
12. Existing non-emergency stationary RICE $100 \leq \text{HP} \leq 500$ located at a major source of HAP, and existing non-emergency stationary CI RICE $300 < \text{HP} \leq 500$ located at an area source of HAP	a. Reduce CO or formaldehyde emissions	i. The average reduction of emissions of CO or formaldehyde, as applicable determined from the initial performance test is equal to or greater than the required CO or formaldehyde, as applicable, percent reduction.
13. Existing non-emergency stationary RICE $100 \leq \text{HP} \leq 500$ located at a major source of HAP, and existing non-emergency stationary CI RICE $300 < \text{HP} \leq 500$ located at an area source of HAP	a. Limit the concentration of formaldehyde or CO in the stationary RICE exhaust	i. The average formaldehyde or CO concentration, as applicable, corrected to 15 percent O ₂ , dry basis, from the three test runs is less than or equal to the formaldehyde or CO emission limitation, as applicable.

[76 FR 12867, Mar. 9, 2011]

Table 6 to Subpart ZZZZ of Part 63—Continuous Compliance With Emission Limitations, Operating Limitations, Work Practices, and Management Practices

As stated in §63.6640, you must continuously comply with the emissions and operating limitations and work or management practices as required by the following:

For each . . .	Complying with the requirement to . . .	You must demonstrate continuous compliance by . . .
1. New or reconstructed non-emergency 2SLB stationary RICE >500 HP located at a major source of HAP, new or reconstructed non-emergency 4SLB stationary RICE ≥ 250 HP located at a major source of HAP, and new or reconstructed non-emergency CI stationary RICE >500 HP located at a major source of HAP	a. Reduce CO emissions and using an oxidation catalyst, and using a CPMS	i. Conducting semiannual performance tests for CO to demonstrate that the required CO percent reduction is achieved; ^a and ii. Collecting the catalyst inlet temperature data according to §63.6625(b); and iii. Reducing these data to 4-hour rolling averages; and iv. Maintaining the 4-hour rolling averages within the operating limitations for the catalyst inlet temperature; and
		v. Measuring the pressure drop across

For each . . .	Complying with the requirement to . . .	You must demonstrate continuous compliance by . . .
		the catalyst once per month and demonstrating that the pressure drop across the catalyst is within the operating limitation established during the performance test.
2. New or reconstructed non-emergency 2SLB stationary RICE >500 HP located at a major source of HAP, new or reconstructed non-emergency 4SLB stationary RICE ≥250 HP located at a major source of HAP, and new or reconstructed non-emergency CI stationary RICE >500 HP located at a major source of HAP	a. Reduce CO emissions and not using an oxidation catalyst, and using a CPMS	i. Conducting semiannual performance tests for CO to demonstrate that the required CO percent reduction is achieved; ^a and ii. Collecting the approved operating parameter (if any) data according to §63.6625(b); and iii. Reducing these data to 4-hour rolling averages; and
		iv. Maintaining the 4-hour rolling averages within the operating limitations for the operating parameters established during the performance test.
3. New or reconstructed non-emergency 2SLB stationary RICE >500 HP located at a major source of HAP, new or reconstructed non-emergency 4SLB stationary RICE ≥250 HP located at a major source of HAP, new or reconstructed non-emergency stationary CI RICE >500 HP located at a major source of HAP, existing non-emergency stationary CI RICE >500 HP, existing non-emergency 4SLB stationary RICE >500 HP located at an area source of HAP that are operated more than 24 hours per calendar year	a. Reduce CO emissions or limit the concentration of CO in the stationary RICE exhaust, and using a CEMS	i. Collecting the monitoring data according to §63.6625(a), reducing the measurements to 1-hour averages, calculating the percent reduction or concentration of CO emissions according to §63.6620; and ii. Demonstrating that the catalyst achieves the required percent reduction of CO emissions over the 4-hour averaging period, or that the emission remain at or below the CO concentration limit; and iii. Conducting an annual RATA of your CEMS using PS 3 and 4A of 40 CFR part 60, appendix B, as well as daily and periodic data quality checks in accordance with 40 CFR part 60, appendix F, procedure 1.
4. Non-emergency 4SRB stationary RICE >500 HP located at a major source of HAP	a. Reduce formaldehyde emissions and using NSCR	i. Collecting the catalyst inlet temperature data according to §63.6625(b); and
		ii. Reducing these data to 4-hour rolling averages; and
		iii. Maintaining the 4-hour rolling averages within the operating limitations for the catalyst inlet temperature; and
		iv. Measuring the pressure drop across the catalyst once per month

For each . . .	Complying with the requirement to . . .	You must demonstrate continuous compliance by . . .
		and demonstrating that the pressure drop across the catalyst is within the operating limitation established during the performance test.
5. Non-emergency 4SRB stationary RICE >500 HP located at a major source of HAP	a. Reduce formaldehyde emissions and not using NSCR	i. Collecting the approved operating parameter (if any) data according to §63.6625(b); and ii. Reducing these data to 4-hour rolling averages; and
		iii. Maintaining the 4-hour rolling averages within the operating limitations for the operating parameters established during the performance test.
6. Non-emergency 4SRB stationary RICE with a brake HP ≥5,000 located at a major source of HAP	a. Reduce formaldehyde emissions	Conducting semiannual performance tests for formaldehyde to demonstrate that the required formaldehyde percent reduction is achieved. ^a
7. New or reconstructed non-emergency stationary RICE >500 HP located at a major source of HAP and new or reconstructed non-emergency 4SLB stationary RICE 250 ≤HP≤500 located at a major source of HAP	a. Limit the concentration of formaldehyde in the stationary RICE exhaust and using oxidation catalyst or NSCR	i. Conducting semiannual performance tests for formaldehyde to demonstrate that your emissions remain at or below the formaldehyde concentration limit; ^a and ii. Collecting the catalyst inlet temperature data according to §63.6625(b); and
		iii. Reducing these data to 4-hour rolling averages; and
		iv. Maintaining the 4-hour rolling averages within the operating limitations for the catalyst inlet temperature; and
		v. Measuring the pressure drop across the catalyst once per month and demonstrating that the pressure drop across the catalyst is within the operating limitation established during the performance test.
8. New or reconstructed non-emergency stationary RICE >500 HP located at a major source of HAP and new or reconstructed non-emergency 4SLB stationary RICE 250 ≤HP≤500 located at a major source of HAP	a. Limit the concentration of formaldehyde in the stationary RICE exhaust and not using oxidation catalyst or NSCR	i. Conducting semiannual performance tests for formaldehyde to demonstrate that your emissions remain at or below the formaldehyde concentration limit; ^a and ii. Collecting the approved operating parameter (if any) data according to §63.6625(b); and
		iii. Reducing these data to 4-hour

For each . . .	Complying with the requirement to . . .	You must demonstrate continuous compliance by . . .
		rolling averages; and
		iv. Maintaining the 4-hour rolling averages within the operating limitations for the operating parameters established during the performance test.
<p>9. Existing emergency and black start stationary RICE ≤500 HP located at a major source of HAP, existing non-emergency stationary RICE <100 HP located at a major source of HAP, existing emergency and black start stationary RICE located at an area source of HAP, existing non-emergency stationary CI RICE ≤300 HP located at an area source of HAP, existing non-emergency 2SLB stationary RICE located at an area source of HAP, existing non-emergency landfill or digester gas stationary SI RICE located at an area source of HAP, existing non-emergency 4SLB and 4SRB stationary RICE ≤500 HP located at an area source of HAP, existing non-emergency 4SLB and 4SRB stationary RICE >500 HP located at an area source of HAP that operate 24 hours or less per calendar year</p>	<p>a. Work or Management practices</p>	<p>i. Operating and maintaining the stationary RICE according to the manufacturer's emission-related operation and maintenance instructions; or ii. Develop and follow your own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions.</p>
<p>10. Existing stationary CI RICE >500 HP that are not limited use stationary RICE, and existing 4SLB and 4SRB stationary RICE >500 HP located at an area source of HAP that operate more than 24 hours per calendar year and are not limited use stationary RICE</p>	<p>a. Reduce CO or formaldehyde emissions, or limit the concentration of formaldehyde or CO in the stationary RICE exhaust, and using oxidation catalyst or NSCR</p>	<p>i. Conducting performance tests every 8,760 hours or 3 years, whichever comes first, for CO or formaldehyde, as appropriate, to demonstrate that the required CO or formaldehyde, as appropriate, percent reduction is achieved or that your emissions remain at or below the CO or formaldehyde concentration limit; and</p>
		<p>ii. Collecting the catalyst inlet temperature data according to §63.6625(b); and</p>
		<p>iii. Reducing these data to 4-hour rolling averages; and</p>
		<p>iv. Maintaining the 4-hour rolling averages within the operating limitations for the catalyst inlet temperature; and</p>
		<p>v. Measuring the pressure drop across the catalyst once per month and</p>

For each . . .	Complying with the requirement to . . .	You must demonstrate continuous compliance by . . .
		demonstrating that the pressure drop across the catalyst is within the operating limitation established during the performance test.
11. Existing stationary CI RICE >500 HP that are not limited use stationary RICE, and existing 4SLB and 4SRB stationary RICE >500 HP located at an area source of HAP that operate more than 24 hours per calendar year and are not limited use stationary RICE	a. Reduce CO or formaldehyde emissions, or limit the concentration of formaldehyde or CO in the stationary RICE exhaust, and not using oxidation catalyst or NSCR	i. Conducting performance tests every 8,760 hours or 3 years, whichever comes first, for CO or formaldehyde, as appropriate, to demonstrate that the required CO or formaldehyde, as appropriate, percent reduction is achieved or that your emissions remain at or below the CO or formaldehyde concentration limit; and
		ii. Collecting the approved operating parameter (if any) data according to §63.6625(b); and
		iii. Reducing these data to 4-hour rolling averages; and
		iv. Maintaining the 4-hour rolling averages within the operating limitations for the operating parameters established during the performance test.
12. Existing limited use CI stationary RICE >500 HP and existing limited use 4SLB and 4SRB stationary RICE >500 HP located at an area source of HAP that operate more than 24 hours per calendar year	a. Reduce CO or formaldehyde emissions or limit the concentration of formaldehyde or CO in the stationary RICE exhaust, and using an oxidation catalyst or NSCR	i. Conducting performance tests every 8,760 hours or 5 years, whichever comes first, for CO or formaldehyde, as appropriate, to demonstrate that the required CO or formaldehyde, as appropriate, percent reduction is achieved or that your emissions remain at or below the CO or formaldehyde concentration limit; and
		ii. Collecting the catalyst inlet temperature data according to §63.6625(b); and
		iii. Reducing these data to 4-hour rolling averages; and
		iv. Maintaining the 4-hour rolling averages within the operating limitations for the catalyst inlet temperature; and
		v. Measuring the pressure drop across the catalyst once per month and demonstrating that the pressure drop across the catalyst is within the operating limitation established during the performance test.

For each . . .	Complying with the requirement to . . .	You must demonstrate continuous compliance by . . .
13. Existing limited use CI stationary RICE >500 HP and existing limited use 4SLB and 4SRB stationary RICE >500 HP located at an area source of HAP that operate more than 24 hours per calendar year	a. Reduce CO or formaldehyde emissions or limit the concentration of formaldehyde or CO in the stationary RICE exhaust, and not using an oxidation catalyst or NSCR	i. Conducting performance tests every 8,760 hours or 5 years, whichever comes first, for CO or formaldehyde, as appropriate, to demonstrate that the required CO or formaldehyde, as appropriate, percent reduction is achieved or that your emissions remain at or below the CO or formaldehyde concentration limit; and
		ii. Collecting the approved operating parameter (if any) data according to §63.6625(b); and
		iii. Reducing these data to 4-hour rolling averages; and
		iv. Maintaining the 4-hour rolling averages within the operating limitations for the operating parameters established during the performance test.

^aAfter you have demonstrated compliance for two consecutive tests, you may reduce the frequency of subsequent performance tests to annually. If the results of any subsequent annual performance test indicate the stationary RICE is not in compliance with the CO or formaldehyde emission limitation, or you deviate from any of your operating limitations, you must resume semiannual performance tests.

[76 FR 12870, Mar. 9, 2011]

Table 7 to Subpart ZZZZ of Part 63—Requirements for Reports

As stated in §63.6650, you must comply with the following requirements for reports:

For each ...	You must submit a ...	The report must contain ...	You must submit the report ...
1. Existing non-emergency, non-black start stationary RICE 100≤HP≤500 located at a major source of HAP; existing non-emergency, non-black start stationary CI RICE >500 HP located at a major source of HAP; existing non-emergency 4SRB stationary RICE >500 HP located at a major source of HAP; existing non-emergency, non-black start stationary CI RICE >300 HP located at an area source of HAP; existing non-emergency, non-black start 4SLB and	Compliance report	a. If there are no deviations from any emission limitations or operating limitations that apply to you, a statement that there were no deviations from the emission limitations or operating limitations during the reporting period. If there were no periods during which the CMS, including CEMS and CPMS, was out-of-control, as specified in §63.8(c)(7), a statement that there were not periods during which the CMS was out-of-control during the reporting period; or	

For each ...	You must submit a ...	The report must contain ...	You must submit the report ...
4SRB stationary RICE >500 HP located at an area source of HAP and operated more than 24 hours per calendar year; new or reconstructed non-emergency stationary RICE >500 HP located at a major source of HAP; and new or reconstructed non-emergency 4SLB stationary RICE 250≤HP≤500 located at a major source of HAP		b. If you had a deviation from any emission limitation or operating limitation during the reporting period, the information in §63.6650(d). If there were periods during which the CMS, including CEMS and CPMS, was out-of-control, as specified in §63.8(c)(7), the information in §63.6650(e); or c. If you had a malfunction during the reporting period, the information in §63.6650(c)(4) i. Semiannually according to the requirements in §63.6650(b)(1)–(5) for engines that are not limited use stationary RICE subject to numerical emission limitations; and ii. Annually according to the requirements in §63.6650(b)(6)–(9) for engines that are limited use stationary RICE subject to numerical emission limitations. i. Semiannually according to the requirements in §63.6650(b). i. Semiannually according to the requirements in §63.6650(b).	
2. New or reconstructed non-emergency stationary RICE that combusts landfill gas or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis	Report	a. The fuel flow rate of each fuel and the heating values that were used in your calculations, and you must demonstrate that the percentage of heat input provided by landfill gas or digester gas, is equivalent to 10 percent or more of the gross heat input on an annual basis; and i. Annually, according to the requirements in §63.6650.	
		b. The operating limits provided in your federally enforceable permit, and any deviations from these limits; and i. See item 2.a.i.	
		c. Any problems or errors suspected with the meters. i. See item 2.a.i.	

[75 FR 51603, Aug. 20, 2010]

Table 8 to Subpart ZZZZ of Part 63—Applicability of General Provisions to Subpart ZZZZ.

As stated in §63.6665, you must comply with the following applicable general provisions.

General provisions citation	Subject of citation	Applies to subpart	Explanation
§63.1	General applicability of the General Provisions	Yes.	
§63.2	Definitions	Yes	Additional terms defined in §63.6675.
§63.3	Units and abbreviations	Yes.	
§63.4	Prohibited activities and circumvention	Yes.	
§63.5	Construction and reconstruction	Yes.	
§63.6(a)	Applicability	Yes.	
§63.6(b)(1)–(4)	Compliance dates for new and reconstructed sources	Yes.	
§63.6(b)(5)	Notification	Yes.	
§63.6(b)(6)	[Reserved]		
§63.6(b)(7)	Compliance dates for new and reconstructed area sources that become major sources	Yes.	
§63.6(c)(1)–(2)	Compliance dates for existing sources	Yes.	
§63.6(c)(3)–(4)	[Reserved]		
§63.6(c)(5)	Compliance dates for existing area sources that become major sources	Yes.	
§63.6(d)	[Reserved]		
§63.6(e)	Operation and maintenance	No.	
§63.6(f)(1)	Applicability of standards	No.	
§63.6(f)(2)	Methods for determining compliance	Yes.	
§63.6(f)(3)	Finding of compliance	Yes.	
§63.6(g)(1)–(3)	Use of alternate standard	Yes.	
§63.6(h)	Opacity and visible emission standards	No	Subpart ZZZZ does not contain opacity or visible emission standards.
§63.6(i)	Compliance extension procedures and criteria	Yes.	
§63.6(j)	Presidential compliance exemption	Yes.	
§63.7(a)(1)–(2)	Performance test dates	Yes	Subpart ZZZZ contains

General provisions citation	Subject of citation	Applies to subpart	Explanation
			performance test dates at §§63.6610, 63.6611, and 63.6612.
§63.7(a)(3)	CAA section 114 authority	Yes.	
§63.7(b)(1)	Notification of performance test	Yes	Except that §63.7(b)(1) only applies as specified in §63.6645.
§63.7(b)(2)	Notification of rescheduling	Yes	Except that §63.7(b)(2) only applies as specified in §63.6645.
§63.7(c)	Quality assurance/test plan	Yes	Except that §63.7(c) only applies as specified in §63.6645.
§63.7(d)	Testing facilities	Yes.	
§63.7(e)(1)	Conditions for conducting performance tests	No.	Subpart ZZZZ specifies conditions for conducting performance tests at §63.6620.
§63.7(e)(2)	Conduct of performance tests and reduction of data	Yes	Subpart ZZZZ specifies test methods at §63.6620.
§63.7(e)(3)	Test run duration	Yes.	
§63.7(e)(4)	Administrator may require other testing under section 114 of the CAA	Yes.	
§63.7(f)	Alternative test method provisions	Yes.	
§63.7(g)	Performance test data analysis, recordkeeping, and reporting	Yes.	
§63.7(h)	Waiver of tests	Yes.	
§63.8(a)(1)	Applicability of monitoring requirements	Yes	Subpart ZZZZ contains specific requirements for monitoring at §63.6625.
§63.8(a)(2)	Performance specifications	Yes.	
§63.8(a)(3)	[Reserved]		
§63.8(a)(4)	Monitoring for control devices	No.	
§63.8(b)(1)	Monitoring	Yes.	
§63.8(b)(2)–(3)	Multiple effluents and multiple monitoring systems	Yes.	
§63.8(c)(1)	Monitoring system operation and maintenance	Yes.	
§63.8(c)(1)(i)	Routine and predictable SSM	Yes.	
§63.8(c)(1)(ii)	SSM not in Startup Shutdown	Yes.	

General provisions citation	Subject of citation	Applies to subpart	Explanation
	Malfunction Plan		
§63.8(c)(1)(iii)	Compliance with operation and maintenance requirements	Yes.	
§63.8(c)(2)–(3)	Monitoring system installation	Yes.	
§63.8(c)(4)	Continuous monitoring system (CMS) requirements	Yes	Except that subpart ZZZZ does not require Continuous Opacity Monitoring System (COMS).
§63.8(c)(5)	COMS minimum procedures	No	Subpart ZZZZ does not require COMS.
§63.8(c)(6)–(8)	CMS requirements	Yes	Except that subpart ZZZZ does not require COMS.
§63.8(d)	CMS quality control	Yes.	
§63.8(e)	CMS performance evaluation	Yes	Except for §63.8(e)(5)(ii), which applies to COMS.
		Except that §63.8(e) only applies as specified in §63.6645.	
§63.8(f)(1)–(5)	Alternative monitoring method	Yes	Except that §63.8(f)(4) only applies as specified in §63.6645.
§63.8(f)(6)	Alternative to relative accuracy test	Yes	Except that §63.8(f)(6) only applies as specified in §63.6645.
§63.8(g)	Data reduction	Yes	Except that provisions for COMS are not applicable. Averaging periods for demonstrating compliance are specified at §§63.6635 and 63.6640.
§63.9(a)	Applicability and State delegation of notification requirements	Yes.	
§63.9(b)(1)–(5)	Initial notifications	Yes	Except that §63.9(b)(3) is reserved.
		Except that §63.9(b) only applies as specified in §63.6645.	
§63.9(c)	Request for compliance extension	Yes	Except that §63.9(c) only applies as specified in §63.6645.
§63.9(d)	Notification of special compliance requirements for new sources	Yes	Except that §63.9(d) only applies as specified in §63.6645.

General provisions citation	Subject of citation	Applies to subpart	Explanation
§63.9(e)	Notification of performance test	Yes	Except that §63.9(e) only applies as specified in §63.6645.
§63.9(f)	Notification of visible emission (VE)/opacity test	No	Subpart ZZZZ does not contain opacity or VE standards.
§63.9(g)(1)	Notification of performance evaluation	Yes	Except that §63.9(g) only applies as specified in §63.6645.
§63.9(g)(2)	Notification of use of COMS data	No	Subpart ZZZZ does not contain opacity or VE standards.
§63.9(g)(3)	Notification that criterion for alternative to RATA is exceeded	Yes	If alternative is in use.
		Except that §63.9(g) only applies as specified in §63.6645.	
§63.9(h)(1)–(6)	Notification of compliance status	Yes	Except that notifications for sources using a CEMS are due 30 days after completion of performance evaluations. §63.9(h)(4) is reserved.
			Except that §63.9(h) only applies as specified in §63.6645.
§63.9(i)	Adjustment of submittal deadlines	Yes.	
§63.9(j)	Change in previous information	Yes.	
§63.10(a)	Administrative provisions for recordkeeping/reporting	Yes.	
§63.10(b)(1)	Record retention	Yes.	
§63.10(b)(2)(i)–(v)	Records related to SSM	No.	
§63.10(b)(2)(vi)–(xi)	Records	Yes.	
§63.10(b)(2)(xii)	Record when under waiver	Yes.	
§63.10(b)(2)(xiii)	Records when using alternative to RATA	Yes	For CO standard if using RATA alternative.
§63.10(b)(2)(xiv)	Records of supporting documentation	Yes.	
§63.10(b)(3)	Records of applicability determination	Yes.	
§63.10(c)	Additional records for sources using CEMS	Yes	Except that §63.10(c)(2)–(4) and (9) are reserved.

General provisions citation	Subject of citation	Applies to subpart	Explanation
§63.10(d)(1)	General reporting requirements	Yes.	
§63.10(d)(2)	Report of performance test results	Yes.	
§63.10(d)(3)	Reporting opacity or VE observations	No	Subpart ZZZZ does not contain opacity or VE standards.
§63.10(d)(4)	Progress reports	Yes.	
§63.10(d)(5)	Startup, shutdown, and malfunction reports	No.	
§63.10(e)(1) and (2)(i)	Additional CMS Reports	Yes.	
§63.10(e)(2)(ii)	COMS-related report	No	Subpart ZZZZ does not require COMS.
§63.10(e)(3)	Excess emission and parameter exceedances reports	Yes.	Except that §63.10(e)(3)(i) (C) is reserved.
§63.10(e)(4)	Reporting COMS data	No	Subpart ZZZZ does not require COMS.
§63.10(f)	Waiver for recordkeeping/reporting	Yes.	
§63.11	Flares	No.	
§63.12	State authority and delegations	Yes.	
§63.13	Addresses	Yes.	
§63.14	Incorporation by reference	Yes.	
§63.15	Availability of information	Yes.	

[75 FR 9688, Mar. 3, 2010]

**Indiana Department of Environmental Management
Office of Air Quality**

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

Source Description and Location

Source Name:	Jasper Engine Exchange, Inc.
Source Location:	815 Wernsing Road, Jasper, IN 47547
County:	Dubois
SIC Code:	3714, 3519, 7537, 7539
Operation Permit No.:	T 037-26692-00089
Operation Permit Issuance Date:	May 11, 2009
Significant Source Modification No.:	037-31873-00089
Significant Permit Modification No.:	037-31937-00089
Permit Reviewer:	Kristen Willoughby

Existing Approvals

The source was issued Part 70 Operating Permit No. T037-26692-00089 on May 11, 2009.

County Attainment Status

The source is located in 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. Unclassifiable or attainment effective October 27, 2011, for PM _{2.5} .	

- (a) **Ozone Standards**
Volatile organic compounds (VOC) and Nitrogen Oxides (NOx) are regulated under the Clean Air Act (CAA) for the purposes of attaining and maintaining the National Ambient Air Quality Standards (NAAQS) for ozone. Therefore, VOC and NOx emissions are considered when evaluating the rule applicability relating to ozone. 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) **PM_{2.5}**
The U.S. EPA, in the Federal Register Notice 70 FR 943 dated January 5, 2005, designated Dubois County as nonattainment for PM_{2.5}. On May 8, 2008 U.S. EPA promulgated the requirements for Prevention of Significant Deterioration (PSD) for PM_{2.5} emissions. These rules became effective on July 15, 2008. On May 4, 2011 the air pollution control board issued an emergency rule establishing the direct PM_{2.5} significant level at ten (10) tons per year. This rule became effective, June 28, 2011. On October

27, 2011 U.S. EPA designated Dubois County as attainment for PM_{2.5}. Therefore, direct PM_{2.5} and SO₂ emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2. See the State Rule Applicability – Entire Source section.

- (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.

Fugitive Emissions

Since this type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-2, 326 IAC 2-3, or 326 IAC 2-7, and there is no applicable New Source Performance Standard that was in effect on August 7, 1980, fugitive emissions are not counted toward the determination of PSD, Emission Offset, and Part 70 Permit applicability.

Source Status

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

Pollutant	Emissions (ton/yr)
PM	< 250
PM ₁₀	<250
PM _{2.5}	<250
SO ₂	<250
VOC	<250
CO	<250
NO _x	<250
GHGs as CO ₂ e	<100,000
Total HAPs	<25
Single HAP (toluene)	<10

- (a) This existing source is not a major stationary source, under PSD (326 IAC 2-2), because no regulated pollutant, excluding GHGs, is emitted at a rate of two hundred fifty (250) tons per year or more, emissions of GHGs are less than one hundred thousand (100,000) tons of CO₂ equivalent emissions (CO₂e) per year, and it is not one of the twenty-eight (28) listed source categories, as specified in 326 IAC 2-2-1(ff)(1).
- (b) These emissions are based upon the Technical Support Document for Part 70 Operating Permit Renewal T037-26692-00089 and GHG calculations done for this modification.

This existing source is not a major source of HAPs, as defined in 40 CFR 63.2, because HAPs emissions are less than ten (10) tons per year for any single HAP and less than twenty-five (25) tons per year of a combination of HAPs. Therefore, this source is an area source under Section 112 of the Clean Air Act (CAA).

Description of Proposed Modification

The Office of Air Quality (OAQ) has reviewed a modification application, submitted by Jasper Engine Exchange, Inc. on May 11, 2002, relating to the removal of units, the addition of units, the

renaming of units, and the replacement of control devices. The following is a list of the proposed changes:

- (a) The removal of BLA082, BLA059, GTS006, GTS008, GTS009, GTS010, GTS012, DYN010, and DYN018.
- (b) The removal of the 9 dust collectors: DUC-001, DUC-027, DUC-051, DUC-052, DUC-063, DUC-068, DUC-073, DUC-503, and DUC-504. These units are being replaced by the 4 new dust collectors: DUC-081, DUC-082, DUC-083, and DUC-084.
- (c) BLA-089, BLA-091, and BLA-067 were controlled by their own baghouses with the same ID number, but will now be controlled by DUC-082, DUC-083, and DUC-081, respectively.
- (d) The following units were not listed as having control devices and need to be updated as follows to show which dust collector they are routed to:

<u>Unit ID</u>	<u>Control ID</u>
BLA-074	DUC-083
BLA-076	DUC-081
BLA-078	DUC-082
BLA-080	DUC-082
BLA-075	DUC-083
BLA-077	BLA-077
BLA-079	DUC-082
BLA-081	DUC-081

- (e) The following units and the control devices they are routed to will be renamed:

<u>Old Unit ID</u>	<u>New Unit ID</u>	<u>New Control ID</u>
BLA-501	BLA-045	BLA-045
BLA-502	BLA-065	DUC-084
BLA-503	BLA-063	DUC-081
BLA-504	BLA-066	DUC-081
BLA-505	BLA-069	DUC-084
BLA-506	BLA-019	DUC-082
BLA-507	BLA-068	DUC-082

- (f) Update the emission calculations for engine cleaning and the surface coating based on current product use.
- (g) Add the miscellaneous non-aerosol cleaning, machining and GPL (now identified as GP NR) final wash operations to the permit. These units were previously only in the technical support document.
- (h) The addition of the following units:
 - (a) One (1) natural gas controlled pyrolysis cleaning furnace, approved in 2012 for construction, identified as OVE0016 with a maximum throughput of 6,000 pounds of equipment and 30 pounds of combustible material per 8-hour cycle, and with a total maximum heat input capacity of 0.72 MMBtu/hr.
 - (b) One (1) steel shot blast unit, approved in 2012 for construction, identified as BLA-083, with a maximum capacity of 800 lb/hr of blast media, using a baghouse as control, identified as DUC-083, and exhausting inside.

- (c) One (1) aluminum oxide blast unit, approved in 2012 for construction, identified as BLA-020, with a maximum capacity of 315 lb/hr of blast media, using a baghouse as control, identified as DUC-006, and exhausting inside.
- (d) One (1) sand blast unit, approved in 2012 for construction, identified as BLA-018, with a maximum capacity of 182 lb/hr of blast media, using a baghouse as control, identified as DUC-003, and exhausting inside.

Insignificant Activities

- (e) Four (4) plastic bead blast units, approved in 2012 for construction, identified as BLA-046, BLA-061, BLA-100, and BLA-105, each with a maximum capacity of 108 lb/hr of blast media, using a baghouse as control, identified as DUC-082, DUC-083, DUC-081, and DUC-083, respectively, and exhausting inside.
- (f) Four (4) armex blast units, approved in 2012 for construction, identified as BLA-094, BLA-097, BLA-098, and BLA-099, each with a maximum capacity of 12.5 lb/hr of blast media, using a baghouse as control, identified as DUC-083, DUC-083, DUC-082, and DUC-082, respectively, and exhausting inside.
- (g) One (1) emergency diesel generator, approved in 2012 for construction, identified as UPS-027, with a maximum capacity of 227 horsepower.
- (h) Fuel dispensing activities: A petroleum fuel other than gasoline dispensing facility, having a storage tank capacity less than or equal to ten thousand five hundred (10,500) gallons, and dispensing three thousand five hundred (3,500) gallons per day or less.

“Integral Part of the Process” Determination

The Permittee has submitted the following information to justify why the baghouses DUC-081, DUC-082, DUC-083, and DUC-084 should be considered an integral part of the blasting operations:

- (a) The dust collectors remove dust from a blast cabinet allowing the operator to see the work that has been accomplished. DUC-081, DUC-082, DUC-083, and DUC-084 vent inside the building.

IDEM, OAQ has evaluated the information submitted and has determined that the baghouses DUC-081, DUC-082, DUC-083, and DUC-084 should not be considered an integral part of the blasting operations. This determination is based on the following facts:

- (1) blast cabinets are capable of operating without the baghouses DUC-081, DUC-082, DUC-083, and DUC-084;
- (2) the primary purpose of baghouses DUC-081, DUC-082, DUC-083, and DUC-084 is pollution control because the baghouses do not need to achieve as high a control efficiency for a blast cabinet operator to see their work as is required to keep this source minor under 326 IAC 2-2 or meet 326 IAC 6-3-2 limits; and
- (3) baghouses DUC-081, DUC-082, DUC-083, and DUC-084 do not have a positive economic effect.

Therefore, the permitting level will be determined using the potential emissions before the baghouses DUC-081, DUC-082, DUC-083, and DUC-084.

Enforcement Issues

There are no pending enforcement actions related to this modification.

Emission Calculations

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

Permit Level Determination – Part 70

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

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

Increase in PTE Before Controls of the Modification	
Pollutant	Potential To Emit (ton/yr)
PM	93.57
PM ₁₀	81.82
PM _{2.5}	81.82
SO ₂	0.13
VOC	15.40
CO	44.44
NO _x	2.31
Single HAPs	5.7E-03
Total HAPs	7.5E-03

PTE Change of the Modified Process			
Pollutant	PTE Before Modification (ton/yr)	PTE After Modification (ton/yr)	Increase from Modification (ton/yr)
PM	36.30	35.30	<0
PM ₁₀	36.30	35.30	<0
PM _{2.5}	36.30	35.30	<0
SO ₂	-	-	-
VOC	224.40	153.86	<0
CO	-	-	-
NO _x	-	-	-
HAPs	79.70	33.05	<0

Total PTE Increase due to the Modification			
Pollutant	PTE New Emission Units (ton/yr)	Net Increase to PTE of Modified Emission Units (ton/yr)	Total PTE for New and Modified Units (ton/yr)
PM	93.57	<0	93.57
PM ₁₀	81.82	<0	81.82
PM _{2.5}	81.82	<0	81.82
SO ₂	0.13	-	0.13
VOC	15.40	<0	15.40
CO	44.44	-	44.44
NO _x	2.31	-	2.31
HAPs	7.5E-03	<0	7.5E-03

This source modification is subject to 326 IAC 2-7-10.5(g)(4), any modification with a potential to emit greater than or equal to twenty-five (25) tons per year of particulate matter (PM) or particulate matter with an aerodynamic diameter less than or equal to ten (10) micrometers (PM₁₀). Additionally, the modification will be incorporated into the Part 70 Operating Permit through a significant permit modification issued pursuant to 326 IAC 2-7-12(d), because it involves a change in a case-by-case emission limitation and significant changes to monitoring requirements.

Permit Level Determination – PSD or Emission Offset 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 source and permit modification, and only to the extent that the effect of the control equipment is made practically enforceable in the permit.

Process / Emission Unit	Potential to Emit (ton/yr)							
	PM	PM ₁₀	PM _{2.5} *	SO ₂	VOC	CO	NO _x	GHGs
Surface Coating	35.30	35.30	35.30	-	65.73	-	-	-
Aerosol Spray	0.44	0.44	0.44	-	6.30	-	-	-
Cleaning & Final Wash	-	-	-	-	3.42	-	-	-
Degreasing	-	-	-	-	91.40	-	-	-
Combustion	1.98	2.84	2.84	1.15	7.43	49.70	234.01	26,542
Cleaning Furnaces	46.79	46.84	46.84	0.07	61.01	175.83	1.70	910
Emergency Generator	0.12	0.12	.012	0.12	0.14	1.76	0.38	66
Blasting Units	101.22	101.22	101.22	-	-	-	-	-
Total for Source after Modification	185.86	186.76	186.76	1.34	235.43	225.91	237.47	27,517
PSD Major Source Thresholds	250	250	250	250	250	250	250	100,000 CO _{2e}

*PM_{2.5} listed is direct PM_{2.5}.

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.

Since this source is would be considered a major PSD source and the unrestricted source-wide potential to emit is greater than 250 tons of PM, PM₁₀, PM_{2.5}, VOC, CO and NO_x, per year, this source has elected to limit the potential to emit of this source as follows:

- (a) The total VOC input to the paint booths, identified as Engine, Stern Drive, Radiator, Diesel Engine, Transmission, PTB-007, and PTB012, shall not exceed 60 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.
- (b) Natural gas usage for all reciprocating internal combustion engines and controlled pyrolysis cleaning furnaces shall not exceed 119.7 million standard cubic feet per 12 consecutive month period with compliance determined at the end of each month.
- (c) #2 diesel fuel usage for all reciprocating internal combustion engines shall not exceed 50,000 gallons per 12 consecutive month period with compliance determined at the end of each month.
- (d) Gasoline usage for all reciprocating internal combustion engines shall not exceed 10,000 gallons per 12 consecutive month period with compliance determined at the end of each month.
- (e) PM, PM10, and PM2.5 shall be limited as follows:

Baghouse ID	Emission Unit ID	PM Limit (lb/hr)	PM10 Limit (lb/hr)	PM2.5 Limit (lb/hr)
BLA007	sandblasting	0.16	0.16	0.16
BLA009	sandblasting	0.51	0.51	0.51
BLA011	sandblasting	0.82	0.82	0.82
DUC003	BLA-018	2.39	2.39	2.39
DUC006	BLA-020	1.10	1.10	1.10
DUC015	grinding, sandblasting, machining	0.25	0.25	0.25
DUC021	grinding, sandblasting, machining	0.04	0.04	0.04
DUC-081	BLA-056, BLA076, BLA081, BLA067, BLA086, BLA087, BLA088, BLA084, BLA026, BLA-100, BLA-063, BLA-066	2.30	2.30	2.30
DUC-082	BLA-073, BLA078, BLA080, BLA079, BLA089, BLA033, BLA-046, BLA-098, BLA-099, BLA-019, BLA-068	2.30	2.30	2.30
DUC-083	BLA-057, BLA074, BLA075, BLA091, BLA031, BLA032, BLA034, BLA042, BLA008, BLA-061, BLA-105, BLA-083, BLA-097, BLA-094	2.30	2.30	2.30
DUC-084	BLA-037, BLA-065, BLA-069, BLA041, BLA064	2.30	2.30	2.30

Compliance with the above VOC, PM, PM10, PM2.5, and fuel usage limits, in conjunction with the VOC, NOx, CO, PM, PM10, and PM2.5 PTE emissions from all other emission units, shall limit the VOC, NOx, CO, PM, PM10, and PM_{2.5} source wide emissions to less than 250 tons per twelve (12) consecutive month period, each. Therefore, the requirements of 326 IAC 2-2 (PSD) are rendered not applicable.

Federal Rule Applicability Determination

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

NSPS:

(a) This source is subject to the New Source Performance Standards for Stationary Compression Ignition Internal Combustion Engines (40 CFR 60, Subpart IIII), which is incorporated by reference as 326 IAC 12. The unit subject to this rule include the following:

- (1) One (1) emergency diesel generator, approved in 2012 for construction, identified as UPS-027, with a maximum capacity of 227 horsepower.

Nonapplicable portions of the NSPS will not be included in the permit. The emergency diesel generator is subject to the following portions of Subpart IIII.

- (1) 40 CFR 60.4200 (a)(4), (c)
- (2) 40 CFR 60.4205 (b), (e)
- (3) 40 CFR 60.4206
- (4) 40 CFR 60.4207 (b)
- (5) 40 CFR 60.4208
- (6) 40 CFR 60.4209 (a)
- (7) 40 CFR 60.4211 (a), (c), (f), (g)(2)
- (8) 40 CFR 60.4212 except (d)
- (9) 40 CFR 60.4214 (b), (c)
- (10) 40 CFR 60.4218
- (11) 40 CFR 60.4219
- (12) Table 5
- (13) Table 8

NESHAP:

(b) This source is subject to the National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (40 CFR 63, Subpart ZZZZ), which is incorporated by reference as 326 IAC 20-82. The unit subject to this rule includes the following:

- (1) One (1) emergency diesel generator, approved in 2012 for construction, identified as UPS-027, with a maximum capacity of 227 horsepower.

Nonapplicable portions of the NESHAP will not be included in the permit. The emergency diesel generator is subject to the following portions of Subpart ZZZZ:

- (1) 40 CFR 63.6580
- (2) 40 CFR 63.6585 (a), (c), (d)
- (3) 40 CFR 63.6590 (a)(2)(iii), (c)(1)
- (4) 40 CFR 63.6595 (a)(7)
- (5) 40 CFR 63.6665
- (6) 40 CFR 63.6670
- (7) 40 CFR 63.6675
- (8) Table 8

The provisions of 40 CFR 63 Subpart A – General Provisions, which are incorporated as 326 IAC 20-1-1, apply to the facility described in this section except when otherwise specified in 40 CFR 63 Subpart ZZZZ.

CAM:

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

- (1) has a potential to emit before controls equal to or greater than the Part 70 major source threshold for the pollutant involved;
- (2) is subject to an emission limitation or standard for that pollutant; and
- (3) uses a control device, as defined in 40 CFR 64.1, to comply with that emission limitation or standard.

None of the new or modified units have a potential to emit greater than the Part 70 major source threshold. Based on this evaluation, the requirements of 40 CFR Part 64, CAM are not applicable to any of the new or modified 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 (PSD)

This source has taken limits to be a minor source under the requirements of 326 IAC 2-2. This is discussed under the Permit Level Determination – PSD section.

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

The operation of the cleaning furnace, blasting operations, and emergency generator will emit less than ten (10) tons per year for a single HAP and less than twenty-five (25) tons per year for a combination of HAPs. Therefore, 326 IAC 2-4.1 does not apply.

326 IAC 4-2 (Incinerators)

326 IAC 4-2 establishes standards for the use of incinerators which emit regulated pollutants. This rule does not apply to incinerators in residential units consisting of four or fewer families or to sources subject to 40 CFR 60, Subpart Eb; 40 CFR 60, Subpart Ec; 40 CFR 60, Subpart CCCC; 40 CFR 62.3640-3642; 40 CFR 62.3650-3652; or 40 CFR 63, Subpart EEE. The controlled pyrolysis cleaning furnace (OVE016) is not subject to the previously mentioned rules. IDEM, OAQ considers pyrolysis burn-off ovens as a form of incineration subject to 326 IAC 4-2; therefore the provisions of 326 IAC 4-2-2 apply to the controlled pyrolysis cleaning furnace (OVE016) as follows:

- (1) Consist of primary and secondary chambers or equivalent;
- (2) Be equipped with a primary burner unless burning wood products;
- (3) Comply with 326 IAC 5-1 and 326 IAC 2;
- (4) Be maintained properly as specified by the manufacturer and approved by the commissioner;
- (5) Be operated according to the manufacturer's recommendations and only burn waste approved by the commissioner;
- (6) Comply with other state and/or local rules or ordinances regarding installation and operation of incinerators;
- (7) Be operated so that emissions of hazardous material including but not limited to viable pathogenic bacteria, dangerous chemicals or gases, or noxious odors are prevented; and

- (8) Not create a nuisance or fire hazard.

If any of the above requirements are not met, burning shall be terminated immediately.

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

The controlled pyrolysis cleaning furnace (OVE016) is not an indirect fired heater because the combustion gases from the furnace come into contact with the material it is heating. Therefore, the requirements of 326 IAC 6-2-4 are not applicable.

326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes)

The facilities at this source are not subject to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), because the allowable emissions for 326 IAC 6-3-2 are less stringent than the allowable emissions for 326 IAC 6.5-1. Pursuant to 326 IAC 6-3-1(b)(1), these facilities are not subject to 326 IAC 6-3-2.

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 more 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 applies to this source.

- (1) Pursuant to 326 IAC 6.5-1-2(a), the particulate matter emissions from the facilities listed below shall each not exceed 0.03 gr/dscf.
- (a) One (1) natural gas controlled pyrolysis cleaning furnace, identified as OVE0016.
 - (b) One (1) steel shot blast unit, identified as BLA-083.
 - (c) One (1) aluminum oxide blast unit, identified as BLA-020.
 - (d) One (1) sand blast unit, identified as BLA-018.

Insignificant Activities

- (e) Four (4) plastic bead blast units, identified as BLA-046, BLA-061, BLA-100, and BLA-105.
 - (f) Four (4) armex blast units, identified as BLA-094, BLA-097, BLA-098, and BLA-099.
- (2) Pursuant to 326 IAC 6.5-1-2(b)(2), the particulate matter emissions from the facilities listed below shall each not exceed 0.15 lb/MMBtu.
- (a) two (2) #2 diesel fuel fired reciprocating internal combustion engines, identified as DYN001 and DYN003.
 - (b) one (1) #2 diesel fuel fired reciprocating internal combustion engine, identified as DYN056.
 - (c) one (1) #2 diesel fuel fired reciprocating internal combustion engine, identified as DYN057.
 - (d) one (1) natural gas fired reciprocating internal combustion engine, identified as DYN028, using gasoline as back-up fuel. (326 IAC 6.5-1-2(b)(2) only applies when combusting gasoline otherwise 326 IAC 6.5-1-2(b)(3) applies.)

Insignificant Activities

- (d) One (1) emergency diesel generator, identified as UPS-027.
- (2) Pursuant to 326 IAC 6.5-1-1(b)(3), the particulate matter emissions from the facilities listed below shall each not exceed 0.01 grains per dry standard cubic foot.
- (a) thirteen (13) natural gas fired reciprocating internal combustion engines, identified as ACO008 through ACO011, CGN001 through CGN008 and CGN011.
 - (b) one (1) natural gas fired reciprocating internal combustion engine, identified as DYN033.
 - (c) one (1) natural gas fired reciprocating internal combustion engine, identified as DYN008.
 - (d) one (1) natural gas fired reciprocating internal combustion engine, identified as DYN028, using gasoline as back-up fuel. (326 IAC 6.5-1-2(b)(3) only applies when combusting natural gas otherwise 326 IAC 6.5-1-2(b)(2) applies.)

Insignificant Activities

- (e) seven (7) natural gas fired reciprocating internal combustion engines, identified as GTS001 through GTS005, GTS007, and GTS011.

326 IAC 7-1.1 (Sulfur Dioxide Emission Limitations)

Emissions units with a potential to emit twenty-five (25) tons per year or ten (10) pounds per hour of sulfur dioxide must comply with the requirements of 326 IAC 7-1.1 (Sulfur Dioxide Emission Limitations). The controlled pyrolysis cleaning furnace, OVE016, and emergency generator, UPS-027, each have potential to emit of sulfur dioxide less these levels; therefore the requirements of 326 IAC 7-1.1 do not apply to this modification.

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

This rule applies to facilities located anywhere in the state that were constructed on or after January 1, 1980, and which have potential volatile organic compound (VOC) emissions of 25 tons per year or more and are not otherwise regulated by other provisions of 326 IAC 8, 326 IAC 20-48, or 326 IAC 20-56. The controlled pyrolysis cleaning furnace, OVE016, has potential VOC emissions less than 25 tons per year. Therefore, the requirements of 326 IAC 8-1-6 do not apply to this unit.

326 IAC 9 (Carbon Monoxide Emission Limits):

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

The state rule applicability for the surface coating operations, cleaning and final wash operations, and degreasing do not change as a result of this modification.

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.

The Compliance Determination Requirements applicable to this modification are as follows:

- (a) The natural gas controlled pyrolysis cleaning furnace, OVE016, has applicable compliance determination conditions as specified below:
 - (1) **Particulate Matter**
 The afterburners for particulate control shall be in operation and control emissions from the controlled pyrolysis cleaning furnace (OVE016) at all times the controlled pyrolysis cleaning furnace is in operation.
- (b) The blasting, grinding and machining operations have applicable compliance determination conditions as specified below:
 - (1) **Particulate Control**
 - (a) The baghouses for particulate control shall be in operation and control emissions from the emission units at all times that the emission units are in operation as listed in the table below:

Baghouse ID	Emission Unit ID
BLA007	sandblasting
BLA009	sandblasting
BLA011	sandblasting
DUC003	BLA-018
DUC006	BLA-020
DUC015	grinding, sandblasting, machining
DUC021	grinding, sandblasting, machining
DUC-081	BLA-056, BLA076, BLA081, BLA067, BLA086, BLA087, BLA088, BLA084, BLA026, BLA-100, BLA-063, BLA-066
DUC-082	BLA-073, BLA078, BLA080, BLA079, BLA089, BLA033, BLA-046, BLA-098, BLA-099, BLA-019, BLA-068
DUC-083	BLA-057, BLA074, BLA075, BLA091, BLA031, BLA032, BLA034, BLA042, BLA008, BLA-061, BLA-105, BLA-083, BLA-097, BLA-094
DUC-084	BLA-037, BLA-065, BLA-069, BLA041, BLA064
BLA-045	BLA045
BLA-085	BLA085
BLA-077	BLA077
BLA090	BLA090

- (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.

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

- (c) The blasting, grinding and machining operations have applicable compliance monitoring conditions as specified below:
- (1) **Parametric Monitoring**
 The Permittee shall record the pressure drop across all baghouse or dust collectors used in conjunction with each grinding and machining process, and each blasting unit at least once per day when the associated units are in operation. When for any one reading, the pressure drop across the baghouse is outside the normal range, the Permittee shall take a reasonable response. The normal range for these units is indicated in the table below unless a different upper-bound or lower-bound value for this range is determined during the latest stack test. Section C – Response to Excursions and Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps shall be considered a deviation from this permit.

Baghouse ID	Emission Unit ID	Pressure Drop Range ("H ₂ O)
BLA007	sandblasting	1.0 - 6.0
BLA009	sandblasting	1.0 - 6.0
BLA011	sandblasting	1.0 - 6.0
DUC003	BLA-018	1.0 - 6.0
DUC006	BLA-020	1.0 - 6.0
DUC015	grinding, sandblasting, machining	1.0 - 6.0
DUC021	grinding, sandblasting, machining	1.0 - 6.0
DUC-081	BLA-056, BLA076, BLA081, BLA067, BLA086, BLA087, BLA088, BLA084, BLA026, BLA-100, BLA-063, BLA-066	2.0 - 5.0
DUC-082	BLA-073, BLA078, BLA080, BLA079, BLA089, BLA033, BLA-046, BLA-098, BLA-099, BLA-019, BLA-068	2.0 - 5.0
DUC-083	BLA-057, BLA074, BLA075, BLA091, BLA031, BLA032, BLA034, BLA042, BLA008, BLA-061, BLA-105, BLA-083, BLA-097, BLA-094	2.0 - 5.0
DUC-084	BLA-037, BLA-065, BLA-069, BLA041, BLA064	2.0 - 5.0
BLA-045	BLA045	1.0 - 6.0
BLA-085	BLA085	1.0 - 6.0
BLA-077	BLA077	1.0 - 6.0
BLA090	BLA090	1.0 - 6.0

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 or replaced at least once every six (6) months.

- (2) Broken or Failed Bag Detection
- (a) For a single compartment baghouses 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 monitoring conditions are necessary because the baghouses for the blasting, grinding and machining operations must operate properly to ensure compliance with 326 IAC 2-2 (PSD), 326 IAC 6.5-1-2(a) (Particulate Matter Limitations Except Lake County), 326 IAC 2-7-10.5 (Minor Source Modification), and 326 IAC 2-7 (Part 70).

Proposed Changes

The changes listed below have been made to Part 70 Operating Permit No. T037-26692-00089. These corrections, changes, and removals may include Title I changes (ex changes that add or modify synthetic minor emission limits). Deleted language appears as ~~strikethroughs~~ and new language appears in **bold**:

Summary of Model Updates for Section A

- (a) IDEM, OAQ has decided to remove all references to the source mailing address. IDEM, OAQ will continue to maintain records of the mailing address.
- (b) On October 27, 2010, the Indiana Air Pollution Control Board issued revisions to 326 IAC 2. These revisions resulted in changes to the rule sites listed in the permit. These changes are not changes to the underlining provisions. The change is only to site of these rules in Section A - General Information, Section A - Emission Units and Pollution Control Equipment Summary, Section A - Insignificant Activities, Section B - Preventative Maintenance Plan, Section B - Emergency Provisions, Section B - Operational Flexibility, Section B - Advanced Source Modification Approval, Section C - Risk Management Plan, the Facility Descriptions, and Section D - Preventative Maintenance Plan.
- (c) On October 27, 2011 U.S. EPA designated Dubois County as attainment for PM_{2.5}. Section A - General Information has been updated to reflect this change.

A.1 General Information [326 IAC 2-7-4(c)][326 IAC 2-7-5(14)]~~[326 IAC 2-7-1(22)]~~

The Permittee owns and operates a stationary engine, transmission and differential parts remanufacturing 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~~
Source Status: Attainment for all other criteria pollutants
Part 70 Operating Permit Program
Minor Source under PSD
~~Minor Source, under Nonattainment NSR Rules~~
Minor Source, under 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(14)]~~(15)]~~

A.3 ~~Specifically Regulated~~ Insignificant Activities [326 IAC 2-7-1(21)][326 IAC 2-7-4(c)] 326 IAC 2-7-5(14)]~~(15)]~~

Summary of Model Updates for B and C Conditions

IDEM, OAQ has made changes to some of the standard language in the B and C conditions of the permit to help clarify the intent of these conditions. The following revisions have been made to the B and C Sections of the permit:

- (a) **Multiple Conditions - Timeframe References**
IDEM, OAQ has decided that the phrases "no later than" and "not later than" are clearer than "within" in relation to the end of a timeline. Therefore, all references to timelines have been revised to "no later than" or "not later than" except for the timelines in subparagraphs (b)(4) and (b)(5) of Section B - Emergency Provisions and Section B - Annual Fee Payment, in which the underlying rules state "within".
- (b) **Multiple Conditions - Responsible Official References**
326 IAC 2-7 requires that "a responsible official" perform certain actions. 326 IAC 2-7-1(34) allows for multiple people to meet the definition of "responsible official." Therefore, IDEM, OAQ is revising all instances of "the responsible official" to read "a responsible official".
- (c) **Multiple Conditions - Certification Requirement References**
IDEM, OAQ has decided to clarify what rule requirements a certification needs to meet.
- (d) **Multiple Conditions - Branch Name Updates**
Several of IDEM's Branches and sections have been renamed. Therefore, IDEM has updated the addresses listed in the permit. References to Permit Administration and Development Section and the Permits Branch have been changed to Permit Administration and Support Section. References to Asbestos Section, Compliance Data Section, Air Compliance Section, and Compliance Branch have been changed to Compliance and Enforcement Branch.
- (e) **Section B - Enforceability**
IDEM, OAQ has decided to clarify the underlying rules and language for Section B - Enforceability.

- (e) **Section B - Duty to Provide Information**
IDEM, OAQ has revised Section B - Duty to Provide Information by removing the statement that the submittal by the Permittee requires the certification by the "responsible official".
- (f) **Section B - Certification**
IDEM, OAQ has decided to clarify Section B - Certification to be consistent with the rule and to clarify that Section B - Certification only states what a certification must be.
- (g) **Section B - Preventive Maintenance Plan**
IDEM, OAQ has added a new paragraph (b) to handle a future situation where the Permittee adds units that need preventive maintenance plans developed. IDEM, OAQ has also decided to clarify other aspects of Section B - Preventive Maintenance Plan.
- (h) **Section B - Emergency Provisions**
IDEM, OAQ is revising Section B - Emergency Provisions to delete paragraph (h). 326 IAC 2-7-5(3)(C)(ii) allows that deviations reported under an independent requirement do not have to be included in the Quarterly Deviation and Compliance Monitoring Report.
- (i) **Section B - Deviation from Permit Requirements and Section C - General Reporting Requirements**
IDEM, OAQ has decided that having a separate condition for the reporting of deviations is unnecessary. Therefore, Section B - Deviation from Permit Requirements and Conditions has been removed and the requirements of that condition have been added to Section C - General Reporting Requirements. Paragraph (d) of Section C - General Reporting Requirements has been removed because IDEM, OAQ already states the timeline and certification needs of each report in the condition requiring the report.
- (j) **Section B - Permit Renewal**
IDEM, OAQ has decided to state which rule establishes the authority to set a deadline for the Permittee to submit additional information. Therefore, Section B - Permit Renewal has been revised.
- (k) **Section B - Permit Revision Under Economic Incentives and Other Programs**
IDEM, OAQ has decided to state that no notice is required for approved changes in Section B - Permit Revision Under Economic Incentives and Other Programs.
- (l) **Section B - Source Modification Requirement**
IDEM, OAQ has decided to reference 326 IAC 2 in Section B - Source Modification Requirement rather than the specific construction rule.
- (m) **Section C - Opacity**
IDEM, OAQ has added 326 IAC 5-1-1 to the exception clause of Section C - Opacity, since 326 IAC 5-1-1 does list exceptions.
- (n) **Section C - Incineration**
IDEM, OAQ has revised Section C - Incineration to more closely reflect the two underlying rules.
- (s) **Section C - Performance Testing**
IDEM, OAQ has removed the first paragraph of Section C - Performance Testing due to the fact that specific testing conditions elsewhere in the permit will specify the timeline and procedures.
- (t) **Section C - Compliance Monitoring**
IDEM, OAQ has revised Section C - Compliance Monitoring. The reference to recordkeeping has been removed due to the fact that other conditions already address recordkeeping. The voice of the condition has been changed to clearly indicate that it is the Permittee that must follow the requirements of the condition.

- (v) **Section C - Monitoring Methods**
IDEM, OAQ has removed Section C - Monitoring Methods. The conditions that require the monitoring or testing, if required, state what methods shall be used.
- (x) **Section C - Emergency Reduction Plans**
IDEM, OAQ has decided not to list the submission date of the ERP because the ERP can be updated without a permit change.
- (y) **Section C - Response to Excursions or Exceedances**
IDEM, OAQ has revised Section C - Response to Excursions or Exceedances. The introduction sentence has been added to clarify that it is only when an excursion or exceedance is detected that the requirements of this condition need to be followed. The word "excess" was added to the last sentence of paragraph (a) because the Permittee only has to minimize excess emissions. The middle of paragraph (b) has been deleted as it was duplicative of paragraph (a). The phrase "or are returning" was added to subparagraph (b)(2) as this is an acceptable response assuming the operation or emission unit does return to normal or its usual manner of operation. The phrase "within the indicator range, designated condition, or below the applicable emission limitation or standard, as applicable" was replaced with "normal or usual manner of operation" because the first phrase is just a limited list of the second phrase. The recordkeeping required by paragraph (e) was changed to require only records of the response because the previously listed items are required to be recorded elsewhere in the permit.
- (z) **Section C - Actions Related to Noncompliance Demonstrated by a Stack Test**
IDEM, OAQ has revised Section C - Actions Related to Noncompliance Demonstrated by a Stack Test. The requirements to take response steps and minimize excess emissions have been removed because Section C - response to Excursions or Exceedances already requires response steps related to exceedances and excess emissions minimization. The start of the timelines was revised from "the receipt of the test results" to "the date of the test". There was confusion if the "receipt" was by IDEM, the Permittee or someone else. Since the start of the timelines has been moved up, the length of the timelines was increased. The new timelines require action within a comparable timeline; and the new timelines still ensure that the Permittee will return to compliance within a reasonable timeframe.
- (aa) **Section C - Emission Statement**
IDEM, OAQ decided to remove paragraph (c) of Section C - Emission Statement since it was duplicative of the requirement in Section C - General Reporting Requirements.
- (bb) **Section C - General Record Keeping Requirements**
The voice of paragraph (b) of Section C - General Record Keeping Requirements has been changed to clearly indicate that it is the Permittee that must follow the requirements of the paragraph. IDEM, OAQ has clarified the Permittee's responsibility with regards to record keeping.
- (cc) **Section C - General Reporting Requirements**
IDEM, OAQ has clarified the interaction of the Quarterly Deviation and Compliance Monitoring Report and the Emergency Provisions.
- (cc) **Section C - Compliance with 40 CFR 82 and 326 IAC 22-1**
IDEM, OAQ has decided to simplify the referencing in Section C - Compliance with 40 CFR 82 and 326 IAC 22-1.

The permit has been revised as follows:

SECTION B

GENERAL CONDITIONS

B.4 Enforceability [326 IAC 2-7-7] [IC 13-17-12]

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.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) ***

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~~ **A certification submitted shall contain required by this permit meets the requirements of 326 IAC 2-7-6(1) if:**

(1) it contains a certification by the "responsible official" of truth, accuracy, as defined by 326 IAC 2-7-1(34), and completeness. This

(2) the 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 Permittee may use the attached Certification Form, or its equivalent 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) ***

(b) ***

(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 ~~thea~~ certification **that meets the requirements of 326 IAC 2-7-6(1)** by ~~thea~~ "responsible official" as defined by 326 IAC 2-7-1(34).

B.10 Preventive Maintenance Plan [326 IAC 2-7-5(1),(3) and (1312)][326 IAC 2-7-6(1) and (6)][326 IAC 1-6-3]

(a) ~~The Permittee shall maintain and implement~~**A Preventive Maintenance Plans (PMPs) for** ~~Plan meets the source as described in~~**requirements of 326 IAC 1-6-3- if it includes,** 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.

The Permittee shall implement the PMPs.

(b) **If required by specific condition(s) in Section D of this permit where no PMP was previously required, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMPs) no later than ninety (90) days after issuance of this permit or ninety (90) days after initial start-up, whichever is later, including the following information on each facility:**

- (1) **Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;**
- (2) **A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and**
- (3) **Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.**

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

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

The PMP extension notification does not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

The Permittee shall implement the PMPs.

(c) A copy of the PMPs shall be submitted to IDEM, OAQ upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or is the primary contributor to an exceedance of any limitation on emissions ~~or potential to emit~~. ~~The PMP does~~**PMPs and their submittal do not require thea**

certification **that meets the requirements of 326 IAC 2-7-6(1)** by thea "responsible official" as defined by 326 IAC 2-7-1(34).

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

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

(a) ***

- (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) ***

(2) ***

(3) ***

- (4) For each emergency lasting one (1) hour or more, the Permittee notified IDEM, OAQ, and/or 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~~ and Enforcement Branch), or
Telephone Number: 317-233-0178 (ask for Office of Air Quality, Compliance ~~Section~~ and Enforcement Branch)
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 and Enforcement 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 thea certification **that meets the requirements of 326 IAC 2-7-6(1)** by thea "responsible official" as defined by 326 IAC 2-7-1(34).

- (6) ***
- (c) ***
- (d) ***
- (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)(98) be revised in response to an emergency.
- (f) ***
- (g) ***
- (h) ~~The Permittee shall include all emergencies in the Quarterly Deviation and Compliance Monitoring Report.~~

~~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 and Enforcement Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2254~~

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

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

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

~~B.15~~ **B.15** Permit Modification, Reopening, Revocation and Reissuance, or Termination
[326 IAC 2-7-5(6)(C)][326 IAC 2-7-8(a)][326 IAC 2-7-9]

- (a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a Part 70 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 ~~thea~~ **certification that meets the requirements of 326 IAC 2-7-6(1)** by ~~thea~~ "responsible official" as defined by 326 IAC 2-7-1(34).

B.1716 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 ~~thea~~ certification **that meets the requirements of 326 IAC 2-7-6(1)** by ~~thea~~ "responsible official" as defined by 326 IAC 2-7-1(34).

- (b) ***

- (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, **pursuant to 326 IAC 2-7-4(a)(2)(D)**, in writing by IDEM, OAQ any additional information identified as being needed to process the application.

B.1817 Permit Amendment or Modification [326 IAC 2-7-11][326 IAC 2-7-12]

- (a) ***

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

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

Any such application ~~shall be certified~~ **does require a certification that meets the requirements of 326 IAC 2-7-6(1)** by ~~thea~~ "responsible official" as defined by 326 IAC 2-7-1(34).

- (c) ***

B.1918 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 **or notice** 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.2019 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) ***

(2) ***

(3) ***

(4) ***

- (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), ~~(1) and (c), or (e)(1)~~. 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)(2c)(1)~~.

- (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:

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 ~~thea certification that meets the requirements of 326 IAC 2-7-6(1) by the "a~~ "responsible official" as defined by 326 IAC 2-7-1(34).

B.2120 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.2221 Inspection and Entry [326 IAC 2-7-6][IC 13-14-2-2][IC 13-30-3-1][IC 13-17-3-2]

B.2322 Transfer of Ownership or Operational Control [326 IAC 2-7-11]

(a) ***

- (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
Permit Administration and Support Section, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

~~The~~**Any such** application which shall be submitted by the Permittee does require ~~thea~~ certification ~~by the~~**that meets the requirements of 326 IAC 2-7-6(1) by a** "responsible official" as defined by 326 IAC 2-7-1(34).

SECTION C 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 5-1-1 **(Applicability) and 326 IAC 5-1-3** (Temporary Alternative Opacity Limitations), opacity shall meet the following, unless otherwise stated in this permit:

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/or in this permit~~. **The Permittee shall not operate a refuse incinerator or refuse burning equipment except as provided in 326 IAC 9-1-2 or in this permit.**

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

- (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
Compliance and Enforcement Branch, Office of Air Quality
100 North Senate Avenue
MC 61-5253 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~~ **that meets the requirements of 326 IAC 2-7-6(1) by a** "responsible official" as defined by 326 IAC 2-7-1(34).

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) For performance testing required by this permit**, a test protocol, except as provided elsewhere in this permit, shall be submitted to:

Indiana Department of Environmental Management
Compliance and Enforcement Branch, 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 a certification **that meets the requirements of 326 IAC 2-7-6(1)** by thea "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 a certification **that meets the requirements of 326 IAC 2-7-6(1)** by thea "responsible official" as defined by 326 IAC 2-7-1(34).

(c) ***

Compliance Requirements [326 IAC 2-1.1-11]

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

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, ~~for 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~~ **allowed up to ninety (90) days from the date of permit issuance or of initial start-up, whichever is later, to begin such monitoring related to that equipment.** If due to circumstances beyond its ~~the Permittee's~~ control, ~~that~~ **any monitoring equipment required by this permit** cannot be installed and operated ~~within~~ **no later than ninety (90) days after permit issuance or the date of initial startup, whichever is later,** the Permittee may extend the compliance schedule related to the equipment for an additional ninety (90) days provided the Permittee notifies:

Indiana Department of Environmental Management
Compliance and Enforcement Branch, Office of Air Quality
100 North Senate Avenue
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 ~~thea~~ certification **that meets the requirements of 326 IAC 2-7-6(1)** by thea "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.140 Instrument Specifications [326 IAC 2-1.1-11] [326 IAC 2-7-5(3)] [326 IAC 2-7-6(1)]

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

C.4211 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~~ shall maintain the most recently submitted written emergency reduction plans (ERPs) consistent with safe operating procedures ~~on March 31, 2003.~~
- (b) ***

C.4312 Risk Management Plan [326 IAC 2-7-5(12)] [40 CFR 68]

C.4413 Response to Excursions or Exceedances [326 IAC 2-7-5] [326 IAC 2-7-6]

~~(a) Upon detecting an excursion where a response step is required by the D Section or an exceedance, of a limitation in this permit:~~

- (a) The Permittee shall **take reasonable response steps** to 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 **excess** 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. The response** may include, but ~~are~~ is not limited to, the following:
 - (1) initial inspection and evaluation;
 - (2) recording that operations returned **or are returning** 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.~~ **normal or usual manner of operation.**
- (c) ***
- (d) ***
- (e) The Permittee shall ~~maintain~~ **record** the following records:
 - ~~(1) monitoring data;~~
 - ~~(2) monitor performance data, if applicable; and~~
 - ~~(3) corrective actions~~ **reasonable response steps** taken.

C.4514 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 its response actions to IDEM, OAQ, within thirty (30)~~ **no later than seventy-five (75) days of receipt after the date 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~~ **no later than** one hundred ~~twenty (120)~~ **eighty (180)** days ~~of receipt of~~ **after** the ~~original~~ **date of the** test results. Should the Permittee demonstrate to IDEM, OAQ that retesting in one hundred ~~twenty (120)~~ **eighty (180)** days is not practicable, IDEM, OAQ may extend the retesting deadline.
- (c) ***

The response action documents submitted pursuant to this condition do require ~~the~~ certification **that meets the requirements of 326 IAC 2-7-6(1)** 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.4615 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 **that meets the requirements of 326 IAC 2-7-6(1)** by ~~the~~ "a" responsible official" as defined by 326 IAC 2-7-1(34).

~~(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.4716 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. **Support information includes the following:**
- (AA) All calibration and maintenance records.
 - (BB) All original strip chart recordings for continuous monitoring instrumentation.
 - (CC) Copies of all reports required by the Part 70 permit.
- Records of required monitoring information include the following:
- (AA) The date, place, as defined in this permit, and time of sampling or measurements.
 - (BB) The dates analyses were performed.
 - (CC) The company or entity that performed the analyses.
 - (DD) The analytical techniques or methods used.

- (EE) **The results of such analyses.**
- (FF) **The operating conditions as existing at the time of sampling or measurement.**

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, **for all record keeping requirements not already legally required, the Permittee shall be implemented within allowed up to ninety (90) days from the date of permit issuance or the date of initial start-up, whichever is later, to begin such record keeping.**

C.4817 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. **Proper notice submittal under Section B –Emergency Provisions satisfies the reporting requirements of this paragraph.** Any deviation from permit requirements, the date(s) of each deviation, the cause of the deviation, and the response steps taken must be reported— **except that 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.** This report shall be submitted ~~within~~ **not later than** thirty (30) days ~~after~~ the end of the reporting period. The Quarterly Deviation and Compliance Monitoring Report shall include ~~the~~ **certification that meets the requirements of 326 IAC 2-7-6(1) by the** "responsible official" as defined by 326 IAC 2-7-1(34). **A deviation is an exceedance of a permit limitation or a failure to comply with a requirement of the permit.**
- (b) The **address** for report required in (a) of this condition and reports required by conditions in Section D of this permit shall be ~~submitted to~~ **submittal is:**

Indiana Department of Environmental Management
Compliance and Enforcement Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251
- (c) ***
- (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)~~(d) ***

Stratospheric Ozone Protection

C.4918 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~~ **applicable** 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.~~

Summary of Equipment List Updates

The equipment lists in the A Sections, D Sections, and E Sections have been updated to reflect the changes due to this modification as follows:

A.2 Emission Units and Pollution Control Equipment Summary

~~[326 IAC 2-7-4(c)(3)][326 IAC 2-7-5(4514)]~~

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) Miscellaneous non-aerosol cleaning and machining operations whose potential uncontrolled VOC emissions are greater than three (3) pounds per hour or fifteen (15) pounds per day.**
- (gh) 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);
- (hi) 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;
- (ij) 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;

- (jk) 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, **approved in 2006 for construction** 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, **approved in 2006 for construction** installed in 2006, with a rated heat input of 3.5 MMBtu/hr and a rated output of 500 HP;
- (o) four (4) natural gas controlled pyrolysis cleaning furnaces, **approved in 2008 for construction**, identified as OVE001, OVE002, OVE003, and OVE004, each with a maximum throughput of 4,000 pounds of equipment and 30 pounds of combustible material per 8-hour cycle, each with a total maximum heat input capacity of 0.43 MMBtu/hr, each using a natural gas afterburner for control, each exhausting through a stack;
- (p) three (3) natural gas controlled pyrolysis cleaning furnaces, approved **in 2009** for construction ~~in 2008~~, each unit using a natural gas afterburner for control, and each exhausting through a stack:
 - (1) one (1) natural gas controlled pyrolysis cleaning furnaces, identified as OVE0013 with a maximum throughput of 6,000 pounds of equipment and 30 pounds of combustible material per 8-hour cycle, and with a total maximum heat input capacity of 0.72 MMBtu/hr;
 - (2) one (1) natural gas controlled pyrolysis cleaning furnaces, identified as OVE0014 with a maximum throughput of 4,000 pounds of equipment and 30 pounds of combustible material per 8-hour cycle, and with a total maximum heat input capacity of 0.43 MMBtu/hr;
 - (3) one (1) natural gas controlled pyrolysis cleaning furnaces, identified as OVE0015 with a maximum throughput of 2,000 pounds of equipment and 30 pounds of combustible material per 8-hour cycle, and with a total maximum heat input capacity of 0.43 MMBtu/hr;
- (q) **One (1) natural gas controlled pyrolysis cleaning furnace, approved in 2012 for construction, identified as OVE016, with a maximum throughput of 4,000 pounds of equipment and 30 pounds of combustible material per 8-hour cycle, with a total maximum heat input capacity of 0.72 MMBtu/hr, using a natural gas afterburner for control, exhausting through a stack.**
- (qq) two (2) baghouses, identified as ~~DUC051 and DUC052~~ **DUC-081 and DUC-083, approved in 2012 for construction**, 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 **in 2008** for construction ~~in 2009~~, identified as BLA-056, with a maximum capacity of 12.5 lb/hr of blast media, controlled by baghouse ~~DUC-052~~ **DUC-081**, exhausting indoors only;
- (2) one (1) soda blasting unit, approved **in 2008** for construction ~~in 2009~~, identified as BLA-057, with a maximum capacity of 12.5 lb/hr of blast media, controlled by baghouse ~~DUC-051~~ **DUC-083**, exhausting indoors only;
- (~~fs~~) one (1) soda blasting unit, identified as BLA-037, **approved in 2003 for construction**, equipped with a baghouse for particulate control, identified as ~~DUC-068~~ **DUC-084**, exhausting inside the building, capacity: 60 units per hour;
- (~~st~~) one (1) plastic bead abrasive blasting unit, identified as ~~BLA-504~~ **BLA-045**, **approved in 2006 for construction** installed ~~in 2006~~, equipped with a baghouse for particulate control, identified as ~~BLA-504~~ **BLA-045**, exhausting inside the building, capacity: 116 pounds of abrasive per hour;
- (~~tu~~) one (1) plastic bead blast unit, approved **in 2008** for construction ~~in 2008~~, identified as BLA-073, with a maximum capacity of 108 lb/hr of blast media, controlled by baghouse ~~DUC-073~~ **DUC-082**, exhausting indoors only;
- (~~tv~~) four (4) pneumatic plastic bead blasting units, **approved in 2008 for construction**, identified as BLA074, BLA076, BLA078, and BLA080, each with a maximum capacity of 108 lb/hr blast media, each with a maximum process weight rate of 1020 lb/hr, each using a dust collector for control, **identified as DUC-083, DUC-081, DUC-082, and DUC-082, respectively**, and each exhausting indoors;
- (~~wv~~) four (4) mechanically powered steel shot blasting units, **approved in 2008 for construction**, identified as BLA075, BLA077, BLA079, and BLA081, each with a maximum capacity of 800 lb/hr blast media, each with a maximum process weight rate of 1200 lb/hr, each using a baghouse for control, **identified as DUC-083, BLA-077, DUC-082, and DUC-081, respectively**, and each exhausting indoors;
- (~~wx~~) seven (7) plastic blaster units, approved **in 2009** for construction ~~in 2009~~:
 - (1) one (1) unit, identified as BLA067, with a maximum capacity of 108 lb/hr blast media, with a maximum process weight rate of 1020 lb/hr, and controlled by baghouse ~~BLA067~~ **DUC-081**, exhausting indoors.
 - (2) three (3) units, identified as BLA086, BLA087, and BLA088, each with a maximum capacity of 108 lb/hr blast media, each with a maximum process weight rate of 1020 lb/hr, and each controlled by baghouse ~~DUC-052~~ **DUC-081**, exhausting indoors;
 - (3) one (1) unit, identified as BLA089, with a maximum capacity of 108 lb/hr blast media, with a maximum process weight rate of 1020 lb/hr, and controlled by baghouse ~~DUC-503~~ **DUC-082**, exhausting indoors;
 - (4) one (1) unit, identified as BLA090, with a maximum capacity of 108 lb/hr blast media, with a maximum process weight rate of 1020 lb/hr, and controlled by baghouse BLA090, exhausting indoors; **and**
 - (5) one (1) unit, identified as BLA091, with a maximum capacity of 108 lb/hr blast media, with a maximum process weight rate of 1020 lb/hr, and controlled by baghouse ~~BLA091~~ **DUC-083**, **and** exhausting indoors; **and**
- (~~xy~~) three (3) steel shot blaster units, approved **in 2009** for construction ~~in 2009~~:

- (1) two (2) steel shot blast units, identified as BLA084 and BLA026, each with a maximum capacity of 1080 lb/hr blast media, each with a maximum process weight rate of 1200 lb/hr. Each unit controlled by baghouse ~~DUC-052~~ **DUC-081**, exhausting indoors;
- (2) one (1) steel shot blast units, identified as BLA085, with a maximum capacity of 1080 lb/hr blast media, with a maximum process weight rate of 1200 lb/hr, and controlled by baghouse BLA-085, exhausting indoors.

A.3 ~~Specifically Regulated~~ Insignificant Activities
[326 IAC 2-7-1(21)][326 IAC 2-7-4(c)][326 IAC 2-7-5(~~14~~14)]

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

- (a) one (1) air atomization paint spray booth, **approved in 2006 for construction** ~~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]
- (b) ~~twelve (12)~~ **seven (7)** natural gas fired reciprocating internal combustion engines, identified as GTS001 through ~~GTS012~~ **GTS005, GTS007, and GTS011**, each with a rated heat input of 0.088 MMBtu/hr and a rated output of 12.57 HP; [326 IAC 2-2]
- (c) one (1) aluminum oxide abrasive blasting unit, identified as ~~BLA-502~~ **BLA-065**, **approved in 2006 for construction** ~~installed in 2006~~, equipped with a baghouse for particulate control, identified as ~~DUC-068~~ **DUC-084**, exhausting inside the building, capacity: 315 pounds of abrasive per hour; [326 IAC 6.5-1-2]
- (d) two (2) armex empire blasting units, identified as ~~BLA-503~~ **BLA-063** and ~~BLA-504~~ **BLA-066**, **approved in 2006 for construction** ~~each installed in 2006~~, each equipped with a baghouse for particulate control, identified as ~~DUC-503~~ and ~~DUC-504~~ **DUC-081**, respectively, exhausting inside the building, capacity: 12.5 pounds of abrasive per hour, each; [326 IAC 6.5-1-2]
- (e) one (1) armex empire blasting unit, identified as ~~BLA-505~~ **BLA-069**, **approved in 2006 for construction** ~~installed in 2006~~, equipped with a baghouse for particulate control, identified as ~~DUC-068~~ **DUC-084**, exhausting inside the building, capacity: 12.5 pounds of abrasive per hour; [326 IAC 6.5-1-2]
- (f) two (2) steel shot peener units, identified as ~~BLA-506~~ **BLA-019** and ~~BLA-507~~ **BLA-068**, **approved in 2006 for construction** ~~both installed in 2006~~, each equipped with a baghouse for particulate control, identified as ~~DUC-503~~ and ~~DUC-504~~ **DUC-082**, respectively, exhausting inside the building, capacity: 600 pounds of abrasive per hour, each; [326 IAC 6.5-1-2]
- (g) four (4) sodium bicarbonate blast cabinets, identified as BLA031, BLA032, BLA034, and BLA042, **approved in 2006 for construction**, controlled by a dust collector, identified as ~~DUC054~~ **DUC-083**; [326 IAC 6.5-1-2]
- (h) one (1) abrasive blaster using coal slag (Black Beauty) media, identified as BLA008, **approved in 2006 for construction**, controlled by a dust collector, identified as ~~DUC054~~ **DUC-083**; [326 IAC 6.5-1-2]
- (i) one (1) abrasive blaster using coal slag (Black Beauty) media, identified as BLA041, **approved in 2006 for construction**, controlled by a dust collector, identified as ~~DUC-068~~ **DUC-084**; [326 IAC 6.5-1-2]

- ~~(j) one (1) pneumatic soda blasting unit, approved for construction in 2008, identified as BLA082, with a maximum capacity of 12.5 lb/hr blast media, with a maximum process weight rate of 300 lb/hr, using a baghouse DUC-068 for control; [326 IAC 6.5-1-2]~~
- (kj) one (1) soda blasting unit, approved **in 2009** for construction ~~in 2008~~, identified as BLA064, with a maximum capacity of 12.5 lb/hr blast media, with a maximum process weight rate of 300 lb/hr, and controlled ~~with existing~~ **by** baghouse ~~DUC-068~~ **DUC-084**; [326 IAC 6.5-1-2]
- (hk) 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]
- (ml) 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]
- (nm) 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]
- (on) 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]
- (po) five (5) baghouses, identified as ~~DUC001~~, DUC003, DUC015, **and** 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]
- (qp) two (2) baghouses (ID Nos. DUC006 and ~~DUC-063~~ **DUC-081**), 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]
- (rq) one (1) sodium bicarbonate blast cabinet, identified as BLA033, **approved in 2006 for construction**, controlled by a dust collector, identified as ~~DUC027~~ **DUC-082**; [326 IAC 6.5-1-2]
- ~~(s) one (1) dust collector, identified as DUC045 for controlling emissions from machining operations and from one (1) abrasive blaster using coal slag (Black Beauty) media, identified as BLA059; [326 IAC 6.5-1-2]~~
- (r) **A petroleum fuel other than gasoline dispensing facility, having a storage tank capacity less than or equal to ten thousand five hundred (10,500) gallons, and dispensing three thousand five hundred (3,500) gallons per day or less.**
- (s) **Activities associated with emergencies, including emergency diesel generators not exceeding one thousand six hundred (1,600) horsepower.**
 - (1) **One (1) emergency diesel generator, approved in 2012 for construction, identified as UPS-027, with a maximum heat output of 227 horsepower.**

Under NSPS, Subpart IIII, this unit is considered to be an affected facility. Under NESHAP, Subpart ZZZZ, this unit is considered to be an affected facility.

- (t) **An emission unit or activity whose potential uncontrolled VOC emissions are less than three (3) pounds per hour or fifteen (15) pounds per day: GP NR final wash operations.**

Summary of Model Updates for D Conditions

IDEM, OAQ has made changes to some of the standard language in conditions in the D Sections of the permit to help clarify the intent of these conditions. The following revisions have been made to the D Sections of the permit:

- (a) For clarity, IDEM, OAQ has changed references to the general conditions such as "in accordance with Section B", "in accordance with Section C", or other similar language to "Section C...contains the Permittee's obligation with regard to the records required by this condition.
- (b) The word "status" has been added to the Record Keeping Requirements and Reporting Requirements. The Permittee has the obligation to document the compliance status. The wording has been revised to properly reflect this.
- (c) IDEM, OAQ has decided that the phrases "no later than" and "not later than" are clearer than "within" in relation to the end of a timeline. Therefore, all references to timelines have been revised to "no later than" or "not later than".
- (d) IDEM, OAQ has included the replacement of an instrument as an acceptable action in the Parametric Monitoring Conditions.
- (e) 326 IAC 2-7 requires that "a responsible official" perform certain actions. 326 IAC 2-7-1(34) allows for multiple people to meet the definition of "responsible official." Therefore, IDEM, OAQ is revising all instances of "the responsible official" to read "a responsible official".
- (f) IDEM, OAQ has decided to clarify what rule requirements a certification needs to meet.
- (g) IDEM, OAQ has revised the last paragraph of Condition D.1.8 - NESHAP Minor Limit to clarify how the limit relates to other limits/units at the source.

The following revisions to the D sections of the permit are specific to this Permittee. Some of these revisions are considered Title I changes.

- (h) The title of Conditions D.1.4 and D.2.1 have been modified for clarification purposes.
- (i) Conditions D.1.6 - Particulate Matter (PM and PM10) and D.2.5 - Particulate Matter (PM and PM10) have been removed because they are not necessary to keep the source minor under 326 IAC 2-2. Section D.1, Section D.2, and the Table of Contents have been updated to reflect this change.
- (j) Conditions D.1.7 - Particulate Matter (PM2.5) and D.2.4 - Particulate Matter (PM2.5) have been removed because Dubois County is now attainment for PM2.5 and the limits are not necessary to keep the source minor under 326 IAC 2-2. Section D.1, Section D.2, and the Table of Contents have been updated to reflect this change.
- (k) Section D.2 has been updated to include the new pyrolysis cleaning furnace (OVE016) and removed units DYN010, DYN018, GTS006, GTS008, GTS009, GTS010, and GTS012.

- (l) The requirements of 326 IAC 6.5-1-2(b)(2) and 326 IAC 6.5-1-2(b)(3) were added to Condition D.2.3 - Particulate for the natural gas fired and #2 diesel fuel fired reciprocating internal combustion engines.
- (m) Section D.3 has been updated to include the new blasting units, new baghouses, and the removal of existing baghouses.
- (n) Condition D.3.1 was combined with Condition D.3.2 and D.3.3 to create one section with all the PM, PM10, and PM2.5 PSD minor limits for the blasting units. The limits were revised based on the changes in this modification No. 037-31873-00089.
- (o) Condition D.3.4 - Particulate matter (PM) has been revised to not list unit IDs but instead the type of process to which the rule is applicable. Since all units in this section have the same limit, this simplifies the condition.
- (p) Section D.4 has been updated to include the new emergency diesel generator.
- (q) New Section E.1 has been added to incorporate the requirements of the New Source Performance Standards for Stationary Compression Ignition Internal Combustion Engines.
- (r) New Section E.2 has been added to incorporate the requirements of the Stationary Reciprocating Internal Combustion Engines NESHAP.

SECTION D.1 EMISSIONS UNIT OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(4514)]: Air Atomization Paint Spray Booths

D.1.4 PSD Minor Limitation Volatile Organic Compounds (VOC) [326 IAC 2-2]

D.1.5 Particulate Matter (PM) [326 IAC 6.5-1-2]

D.1.6 Particulate Matter (PM and PM10) [326 IAC 2-2]

- (a) In order to render the requirements of 326 IAC 2-2 not applicable for PM, the Permittee shall comply with the following:
 - (1) PM emissions from the Engine Booth, identified as PTB001, using dry filters for overspray control, shall each not exceed 4.63 pounds per hour.
 - (2) PM emissions from the Stern Drive Booth, identified as PTB002, using dry filters for overspray control, shall each not exceed 2.47 pounds per hour.
 - (3) PM emissions from the Radiator Booth, identified as PTB003, using dry filters for overspray control, shall each not exceed 1.63 pounds per hour.
 - (4) PM emissions from the Diesel Engine Booth, identified as PTB004, using dry filters for overspray control, shall each not exceed 4.63 pounds per hour.
 - (5) PM emissions from the Transmission Booth, identified as BPTB005, using dry filters for overspray control, shall each not exceed 4.63 pounds per hour.

- ~~(6) PM emissions from the paint spray booth, identified as BPTB007, using dry filters for overspray control, shall each not exceed 0.368 pounds per hour.~~
- ~~(7) PM emissions from the paint spray booth, identified as PTB012 using dry filters for overspray control, shall each not exceed 0.368 pounds per hour.~~
- ~~(b) In order to render the requirements of 326 IAC 2-2 not applicable for PM10, the Permittee shall comply with the following:
 - ~~(1) PM10 emissions from the Engine Booth, identified as PTB001, using dry filters for overspray control, shall each not exceed 4.63 pounds per hour.~~
 - ~~(2) PM10 emissions from the Stern Drive Booth, identified as PTB002, using dry filters for overspray control, shall each not exceed 2.47 pounds per hour.~~
 - ~~(3) PM10 emissions from the Radiator Booth, identified as PTB003, using dry filters for overspray control, shall each not exceed 1.63 pounds per hour.~~
 - ~~(4) PM10 emissions from the Diesel Engine Booth, identified as PTB004, using dry filters for overspray control, shall each not exceed 4.63 pounds per hour.~~
 - ~~(5) PM10 emissions from the Transmission Booth, identified as BPTB005, using dry filters for overspray control, shall each not exceed 4.63 pounds per hour.~~
 - ~~(6) PM10 emissions from the paint spray booth, identified as BPTB007, using dry filters for overspray control, shall each not exceed 0.368 pounds per hour.~~
 - ~~(7) PM10 emissions from the paint spray booth, identified as PTB012 using dry filters for overspray control, shall each not exceed 0.368 pounds per hour.~~~~

~~Compliance with this requirement in conjunction with similar requirements to other emission units at the source shall limit the PM and PM10 source wide emissions to 250 tons per twelve (12) consecutive month period. Therefore, the requirements of 326 IAC 2-2 are rendered not applicable.~~

~~D.1.7 Particulate Matter (PM2.5) [326 IAC 2-1.1-5]~~

~~In order to render the requirements of 326 IAC 2-1.1-5 not applicable for PM2.5, the Permittee shall comply with the following:~~

- ~~(a) PM2.5 emissions from the Engine Booth, identified as BPTB001, using dry filters for overspray control, shall each not exceed 1.04 pounds per hour.~~
- ~~(b) PM2.5 emissions from the Stern Drive Booth, identified as PTB002, using dry filters for overspray control, shall each not exceed 0.20 pounds per hour.~~
- ~~(c) PM2.5 emissions from the Radiator Booth, identified as PTB003, using dry filters for overspray control, shall each not exceed 1.55 pounds per hour.~~
- ~~(d) PM2.5 emissions from the Diesel Engine Booth, identified as PTB004, using dry filters for overspray control, shall each not exceed 1.87 pounds per hour.~~
- ~~(e) PM2.5 emissions from the Transmission Booth, identified as BPTB005, using dry filters for overspray control, shall each not exceed 0.10 pounds per hour.~~
- ~~(f) PM2.5 emissions from the paint spray booth, identified as BPTB007, using dry filters for overspray control, shall each not exceed 0.33 pounds per hour.~~

~~(g) PM2.5 emissions from the paint spray booth, identified as PTB012 using dry filters for overspray control, shall each not exceed 0.78 pounds per hour.~~

~~Compliance with this requirement in conjunction with similar requirements to the other emission units at the source shall limit the PM2.5 source wide emissions to 100 tons per twelve (12) consecutive month period. Therefore, the requirements of 326 IAC 2-1.1-5 are rendered not applicable.~~

D.1.86 NESHAP Minor Limit [40 CFR Part 63, Subpart A][40 CFR Part 63, Subpart M] [326 IAC 20-1] [326 IAC 20-80]

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~~ **the above HAP limits in conjunction with the potential to emit HAPs from other emission units at the source, shall limit the HAP emissions from the entire source to less than 10 tons per twelve (12) consecutive month period for a single HAP and less than 25 tons per twelve (12) consecutive month period for combined HAPs and render 40 CFR 63, Subpart M not applicable.**

D.1.97 Preventive Maintenance Plan [326 IAC 2-7-5(4312)]

~~A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for these facilities and their control devices.~~ **Section B - Preventive Maintenance Plan contains the Permittee's obligation with regard to the preventive maintenance plan required by this condition.**

Compliance Determination Requirements

D.1.408 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, D.1.3, and D.1.4, **and D.1.6** 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.1.449 Particulate Control

In order to comply with Conditions D.1.5, ~~D.1.6 and D.1.7~~ 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.1.120 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 a reasonable response. ~~steps in accordance with Section C - Response to Excursions or Exceedances~~ **contains the Permittee's obligation with regard to the reasonable response steps required by this condition.** 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 a reasonable response. ~~steps in accordance with Section C - Response to Excursions or Exceedances~~ **contains the Permittee's obligation with regard to the reasonable response steps required by this condition.** 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.1.131 Record Keeping Requirements

- (a) To document **the compliance status** with Conditions D.1.1, D.1.2, D.1.3, D.1.4 and D.1.86, 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, D.1.2, D.1.3, D.1.4 and D.1.86. Records necessary to demonstrate compliance shall be available within 30 days of the end of each compliance period.

- (b) To document **the compliance status** with Condition D.1.910, the Permittee shall maintain a log of weekly overspray observations, daily and monthly inspections.
- (c) ~~All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit~~ **contains the Permittee's obligation with regard to the records required by this condition.**

D.1.142 Reporting Requirements

A quarterly summary of the information to document **the compliance status** with Conditions D.1.4 and D.1.86 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~~ **not later than** thirty (30) days after the end of the quarter being reported. **Section C - General Reporting contains the Permittee's obligation with regard to the reporting required by this condition.** The report submitted by the Permittee does require ~~the a~~ certification **that meets the requirements of 326 IAC 2-7-6(1)** by an "authorized individual **responsible official**" as defined by 326 IAC ~~2-4.1-1(4)-2-7-1(34)~~.

SECTION D.2 EMISSIONS UNIT OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(4514)]: Reciprocating Internal Combustion Engines

- (gh) 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);
- (hi) 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;
- (ij) 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;
- (jk) 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, **approved in 2006 for construction** ~~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, **approved in 2006 for construction** ~~installed in 2006~~, with a rated heat input of 3.5 MMBtu/hr and a rated output of 500 HP;
- (o) four (4) natural gas controlled pyrolysis cleaning furnaces, **approved in 2008 for construction**, identified as OVE001, OVE002, OVE003, and OVE004, each with a maximum throughput of 4,000 pounds of equipment and 30 pounds of combustible material per 8-hour cycle, each with a total maximum heat input capacity of 0.43 MMBtu/hr, each using a natural gas afterburner for control, each exhausting through a stack;
- (p) three (3) natural gas controlled pyrolysis cleaning furnaces, approved **in 2009** for construction ~~in 2008~~, each unit using a natural gas afterburner for control, and each exhausting through a stack:
 - (1) one (1) natural gas controlled pyrolysis cleaning furnaces, identified as OVE0013 with a maximum throughput of 6,000 pounds of equipment and 30 pounds of combustible material per 8-hour cycle, and with a total maximum heat input capacity of 0.72 MMBtu/hr;
 - (2) one (1) natural gas controlled pyrolysis cleaning furnaces, identified as OVE0014 with a maximum throughput of 4,000 pounds of equipment and 30 pounds of combustible material per 8-hour cycle, and with a total maximum heat input capacity of 0.43 MMBtu/hr;
 - (3) one (1) natural gas controlled pyrolysis cleaning furnaces, identified as OVE0015 with a maximum throughput of 2,000 pounds of equipment and 30 pounds of combustible material per 8-hour cycle, and with a total maximum heat input capacity of 0.43 MMBtu/hr;
- (q) **One (1) natural gas controlled pyrolysis cleaning furnace, approved in 2012 for construction, identified as OVE016, with a maximum throughput of 4,000 pounds of equipment and 30 pounds of combustible material per 8-hour cycle, with a total maximum heat input capacity of 0.72 MMBtu/hr, using a natural gas afterburner for control, exhausting through a stack.**

Insignificant Activities:

- (b) ~~twelve (12)~~ **seven (7)** natural gas fired reciprocating internal combustion engines, identified as GTS001 through ~~GTS012~~ **GTS005, GTS007, and GTS011**, 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 **PSD Minor Limitations** - Volatile Organic Compounds (VOC), Nitrogen Oxides (NOx) and Carbon Monoxide (CO) Emissions [326 IAC 2-2]

D.2.2 Incinerator Requirements [326 IAC 4-2]

Pursuant to 326 IAC 4-2, the ~~seven (7)~~ **eight (8)** controlled pyrolysis cleaning furnaces, identified as OVE001, OVE002, OVE003, OVE004, OVE013, OVE014, ~~and OVE015~~, **and OVE016** shall:

D.2.3 Particulate [326 IAC 6.5-1-2]

- (a) Pursuant to 326 IAC 6.5-1-2(a), particulate matter emissions from the ~~seven (7)~~ **eight (8)** controlled pyrolysis cleaning furnaces, identified as OVE001, OVE002, OVE003, OVE004, OVE013, OVE014, ~~and OVE015,~~ **and OVE016**, shall each not exceed 0.03 grains per dry standard cubic foot.
- (b) Pursuant to 326 IAC 6.5-1-2(b)(3), particulate matter emissions from the natural gas fired reciprocating internal combustion engines, identified as ACO008 through ACO011, CGN001 through CGN011, DYN033, DYN008, and DYN028, shall each not exceed 0.01 grains per dry standard cubic foot.
- (c) Pursuant to 326 IAC 6.5-1-2(b)(2), particulate matter emissions from the #2 diesel fuel fired reciprocating internal combustion engines, identified as DYN001, DYN002, DYN003, DYN056, DYN057, GTS001 through GTS005, GTS007, and GTS011, shall each not exceed 0.15 pound per MMBtu.
- (d) Pursuant to 326 IAC 6.5-1-2(a)(2), particulate matter emissions from the natural gas fired reciprocating internal combustion engine, identified as DYN028, shall each not exceed 0.15 pound per MMBtu when combusting gasoline.

~~D.2.4 Particulate Matter (PM2.5) [326 IAC 2-1.1-5]~~

~~In order to render the requirements of 326 IAC 2-1.1-5 not applicable for PM2.5, the Permittee shall comply with the following:~~

- ~~(a) PM2.5 emissions from the seven (7) controlled pyrolysis cleaning furnaces, identified as OVE001, OVE002, OVE003, OVE004, OVE013, OVE014, and OVE015 shall each not exceed 0.06 pounds per hour.~~

~~Compliance with this requirement in conjunction with similar requirements to the other emission units at the source shall limit the PM2.5 source wide emissions to 100 tons per twelve (12) consecutive month period. Therefore, the requirements of 326 IAC 2-1.1-5 are rendered not applicable.~~

~~D.2.5 Particulate Matter (PM and PM10) [326 IAC 2-2]~~

~~In order to render the requirements of 326 IAC 2-2 not applicable for PM and PM10, the Permittee shall comply with the following:~~

- ~~(a) PM emissions from the seven (7) controlled pyrolysis cleaning furnaces, identified as OVE001, OVE002, OVE003, OVE004, OVE013, OVE014, and OVE015 shall each not exceed 0.73 pounds per hour.~~
- ~~(b) PM10 emissions from the seven (7) controlled pyrolysis cleaning furnaces, identified as OVE001, OVE002, OVE003, OVE004, OVE013, OVE014, and OVE015 shall each not exceed 0.73 pounds per hour.~~

~~Compliance with this requirement in conjunction with similar requirements to the other emission units at the source shall limit the PM and PM10 source wide emissions to 250 tons per twelve (12) consecutive month period. Therefore, the requirements of 326 IAC 2-2 are rendered not applicable.~~

D.2.64 Preventive Maintenance Plan [326 IAC 2-7-5(1312)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for the ~~seven (7) controlled pyrolysis cleaning furnaces (OVE001-OVE004, OVE013-OVE015)~~ **these facilities** and their control devices. **Section B - Preventive Maintenance Plan contains the Permittee's obligation with regard to the preventive maintenance plan required by this condition.**

Compliance Determination Requirements

D.2.75 Particulate Matter

In order to comply with Conditions ~~D.2.3, D.2.4 and D.2.5~~ the afterburners for particulate control shall be in operation and control emissions from the controlled pyrolysis cleaning furnaces (OVE001-OVE004 and OVE013-OVE015~~6~~) at all times the controlled pyrolysis cleaning furnaces are in operation.

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

D.2.76 Record Keeping Requirements

- (a) To document **the compliance status** with Condition D.2.1, the Permittee shall maintain records of the monthly natural gas, #2 diesel fuel and gasoline usage by all reciprocating internal combustion engines and controlled pyrolysis cleaning furnaces at the source.
- (b) ~~All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit~~ **contains the Permittee's obligation with regard to the records required by this condition.**

D.2.87 Reporting Requirements

A quarterly summary of the information to document **the compliance status** 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 not later than thirty (30) days after the end of the quarter being reported.~~ **Section C - General Reporting contains the Permittee's obligation with regard to the reporting required by this condition.** The report submitted by the Permittee does require ~~the a~~ certification **that meets the requirements of 326 IAC 2-7-6(1)** by ~~the a~~ "responsible official" as defined by 326 IAC 2-7-1(34).

SECTION D.3 EMISSIONS UNIT OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(~~45~~**14**)]: Grinding and Machining Operations

- (~~eq~~) two (2) baghouses, identified as ~~DUC051 and DUC052~~ **DUC-081 and DUC-083, approved in 2012 for construction**, 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 **in 2008** for construction ~~in 2009~~, identified as BLA-056, with a maximum capacity of 12.5 lb/hr of blast media, controlled by baghouse ~~DUC-052~~ **DUC-081**, exhausting indoors only;
 - (2) one (1) soda blasting unit, approved **in 2008** for construction ~~in 2009~~, identified as BLA-057, with a maximum capacity of 12.5 lb/hr of blast media, controlled by baghouse ~~DUC-054~~ **DUC-083**, exhausting indoors only;
- (~~rs~~) one (1) soda blasting unit, identified as BLA-037, **approved in 2003 for construction**, equipped with a baghouse for particulate control, identified as ~~DUC-068~~ **DUC-084**, exhausting inside the building, capacity: 60 units per hour;
- (~~st~~) one (1) plastic bead abrasive blasting unit, identified as ~~BLA-501~~ **BLA-045, approved in 2006 for construction installed in 2006**, equipped with a baghouse for particulate control, identified as ~~BLA-501~~ **BLA-045**, exhausting inside the building, capacity: 116 pounds of abrasive per hour;
- (~~tu~~) one (1) plastic bead blast unit, approved **in 2008** for construction ~~in 2008~~, identified as BLA-073, with a maximum capacity of 108 lb/hr of blast media, controlled by baghouse ~~DUC-073~~ **DUC-082**, exhausting indoors only;

- (uv) four (4) pneumatic plastic bead blasting units, **approved in 2008 for construction**, identified as BLA074, BLA076, BLA078, and BLA080, each with a maximum capacity of 108 lb/hr blast media, each with a maximum process weight rate of 1020 lb/hr, each using a dust collector for control, **identified as DUC-083, DUC-081, DUC-082, and DUC-082, respectively**, and each exhausting indoors;
- (vw) four (4) mechanically powered steel shot blasting units, **approved in 2008 for construction**, identified as BLA075, BLA077, BLA079, and BLA081, each with a maximum capacity of 800 lb/hr blast media, each with a maximum process weight rate of 1200 lb/hr, each using a baghouse for control, **identified as DUC-083, BLA-077, DUC-082, and DUC-081, respectively**, and each exhausting indoors;
- (wx) seven (7) plastic blaster units, approved **in 2009** for construction ~~in 2009~~:
 - (1) one (1) unit, identified as BLA067, with a maximum capacity of 108 lb/hr blast media, with a maximum process weight rate of 1020 lb/hr, and controlled by baghouse ~~BLA067~~ **DUC-081**, exhausting indoors. ~~exhausting indoors~~;
 - (2) three (3) units, identified as BLA086, BLA087, and BLA088, each with a maximum capacity of 108 lb/hr blast media, each with a maximum process weight rate of 1020 lb/hr, and each controlled by baghouse ~~DUC-052~~ **DUC-081**, exhausting indoors;
 - (3) one (1) unit, identified as BLA089, with a maximum capacity of 108 lb/hr blast media, with a maximum process weight rate of 1020 lb/hr, and controlled by baghouse ~~DUC-503~~ **DUC-082**, exhausting indoors;
 - (4) one (1) unit, identified as BLA090, with a maximum capacity of 108 lb/hr blast media, with a maximum process weight rate of 1020 lb/hr, and controlled by baghouse BLA090, exhausting indoors; **and**
 - (5) one (1) unit, identified as BLA091, with a maximum capacity of 108 lb/hr blast media, with a maximum process weight rate of 1020 lb/hr, and controlled by baghouse ~~BLA091~~ **DUC-083**, ~~and~~ exhausting indoors; ~~and~~
- (xy) three (3) steel shot blaster units, approved **in 2009** for construction ~~in 2009~~:
 - (1) two (2) steel shot blast units, identified as BLA084 and BLA026, each with a maximum capacity of 1080 lb/hr blast media, each with a maximum process weight rate of 1200 lb/hr. Each unit controlled by baghouse ~~DUC-052~~ **DUC-081**, exhausting indoors;
 - (2) one (1) steel shot blast units, identified as BLA085, with a maximum capacity of 1080 lb/hr blast media, with a maximum process weight rate of 1200 lb/hr, and controlled by baghouse BLA-085, exhausting indoors.

Insignificant Activities:

- (c) one (1) aluminum oxide abrasive blasting unit, identified as ~~BLA-502~~ **BLA-065**, **approved in 2006 for construction** ~~installed in 2006~~, equipped with a baghouse for particulate control, identified as ~~DUC-068~~ **DUC-084**, exhausting inside the building, capacity: 315 pounds of abrasive per hour; [326 IAC 6.5-1-2]
- (d) two (2) armex empire blasting units, identified as ~~BLA-503~~ **BLA-063** and ~~BLA-504~~ **BLA-066**, **approved in 2006 for construction** ~~each installed in 2006~~, each equipped with a baghouse for particulate control, identified as ~~DUC-503 and DUC-504~~ **DUC-081**, respectively, exhausting inside the building, capacity: 12.5 pounds of abrasive per hour, each; [326 IAC 6.5-1-2]
- (e) one (1) armex empire blasting unit, identified as ~~BLA-505~~ **BLA-069**, **approved in 2006 for construction** ~~installed in 2006~~, equipped with a baghouse for particulate control, identified

- as ~~DUC-068~~ **DUC-084**, exhausting inside the building, capacity: 12.5 pounds of abrasive per hour; [326 IAC 6.5-1-2]
- (f) two (2) steel shot peener units, identified as ~~BLA-506~~ **BLA-019** and ~~BLA-507~~ **BLA-068**, **approved in 2006 for construction** both installed in 2006, each equipped with a baghouse for particulate control, identified as ~~DUC-503 and DUC-504~~ **DUC-082**, respectively, exhausting inside the building, capacity: 600 pounds of abrasive per hour, each; [326 IAC 6.5-1-2]
- (g) four (4) sodium bicarbonate blast cabinets, identified as BLA031, BLA032, BLA034, and BLA042, **approved in 2006 for construction**, controlled by a dust collector, identified as ~~DUC054~~ **DUC-083**; [326 IAC 6.5-1-2]
- (h) one (1) abrasive blaster using coal slag (Black Beauty) media, identified as BLA008, **approved in 2006 for construction**, controlled by a dust collector, identified as ~~DUC054~~ **DUC-083**; [326 IAC 6.5-1-2]
- (i) one (1) abrasive blaster using coal slag (Black Beauty) media, identified as BLA041, **approved in 2006 for construction**, controlled by a dust collector, identified as ~~DUC-068~~ **DUC-084**; [326 IAC 6.5-1-2]
- ~~(j) one (1) pneumatic soda blasting unit, approved for construction in 2008, identified as BLA082, with a maximum capacity of 12.5 lb/hr blast media, with a maximum process weight rate of 300 lb/hr, using a baghouse DUC-068 for control; [326 IAC 6.5-1-2]~~
- (kj) one (1) soda blasting unit, approved **in 2009** for construction ~~in 2008~~, identified as BLA064, with a maximum capacity of 12.5 lb/hr blast media, with a maximum process weight rate of 300 lb/hr, and controlled ~~with existing~~ **by** baghouse ~~DUC-068~~ **DUC-084**; [326 IAC 6.5-1-2]
- ~~(en)~~ 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]
- ~~(po)~~ five (5) baghouses, identified as ~~DUC004, DUC003, DUC015, and 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]
- ~~(qp)~~ two (2) baghouses (ID Nos. DUC006 and ~~DUC-063~~ **DUC-081**), 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]
- ~~(rq)~~ one (1) sodium bicarbonate blast cabinet, identified as BLA033, **approved in 2006 for construction**, controlled by a dust collector, identified as ~~DUC027~~ **DUC-082**; [326 IAC 6.5-1-2]
- ~~(s)~~ one (1) dust collector, identified as DUC045 for controlling emissions from machining operations and from one (1) abrasive blaster using coal slag (Black Beauty) media, identified as BLA059; [326 IAC 6.5-1-2]

Summary Table	
Baghouse/Dust collector ID	Emissions unit
DUC-052	BLA-056 BLA086 BLA087 BLA088 BLA084 BLA026
DUC-051	BLA-057 BLA031 BLA032 BLA034 BLA042 BLA008
DUC-068	BLA-037 BLA041 BLA082 BLA064
BLA-501	BLA-501
DUC-073	BLA-073
Dust Collector (No ID)	BLA074 BLA076 BLA078 BLA080
Baghouse (No ID)	BLA075 BLA077 BLA0079 BLA0084
BLA067	BLA067
DUC-503	BLA089 BLA-503 BLA-506
BLA090	BLA090
BLA091	BLA091
BLA085	BLA085
DUC-504	BLA-504 BLA-507
DUC-068	BLA-505
BLA007 BLA009 BLA011	Sandblasting
Summary Table	
Baghouse/Dust collector ID	Baghouse/Dust collector ID
DUC001 DUC003 DUC015 DUC024 DUC027	Grinding, Sandblasting, Machining
DUC006 DUC063	Grinding, Machining
DUC027	BLA033
DUC045	BLA059

Summary Table	
Baghouse/Dust collector ID	Emissions unit
DUC-081	BLA-056, BLA076, BLA081, BLA067, BLA086, BLA087, BLA088, BLA084, BLA026, BLA-100, BLA-063, BLA-066
DUC-082	BLA-073, BLA078, BLA080, BLA079, BLA089, BLA033, BLA-046, BLA-098, BLA-099, BLA-019, BLA-068
DUC-083	BLA-057, BLA074, BLA075, BLA091, BLA031, BLA032, BLA034, BLA042, BLA008, BLA-061, BLA-105, BLA-083, BLA-097, BLA-094
DUC-084	BLA-037, BLA-065, BLA-069, BLA041, BLA064
BLA-085	BLA085
BLA-077	BLA077
BLA-090	BLA090
BLA-045	BLA045
DUC-003	BLA-018
DUC-006	BLA-020
BLA007 BLA009 BLA011	Sandblasting
DUC003 DUC015 DUC021	Grinding, Sandblasting, Machining

(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 **PSD Minor Particulate Matter (PM2.5) Limitations** [326 IAC 2-4.1-5 2-2]

In order to render the requirements of 326 IAC 2-4.1-5 2-2 not applicable for **PM, PM10, and PM2.5**, the Permittee shall comply with the following:

- (a) ~~PM2.5 emissions from the grinding and machining operations and blasting units, identified as BLA-057, BLA031, BLA032, BLA034, BLA042, BLA008, controlled by a baghouse, identified as DUC051, shall each not exceed 0.0016 pounds per hour, respectively.~~
- (b) ~~PM2.5 emissions from the grinding and machining operations and blasting units, identified as BLA-056, BLA-026, BLA-084, BLA-086, BLA-087, and BLA-088 controlled by a baghouse, identified as DUC052, shall each not exceed 0.177 pounds per hour, respectively~~

- (c) ~~PM2.5 emissions from six (6) blasting units, identified as BLA-037, BLA041, BLA082, and BLA-064, controlled by one (1) baghouse, identified as DUC-068, shall not exceed 0.155 pounds per hour.~~
- (d) ~~PM2.5 emissions from the one (1) plastic bead abrasive blasting unit, identified as BLA-501, controlled by a baghouse, identified as BLA-501, shall not exceed 0.011 pounds per hour.~~
- (e) ~~PM2.5 emissions from the one (1) plastic bead abrasive blasting unit, identified as BLA-073, controlled by a dust collector, identified as DUC-073, shall not exceed 0.0023 pounds per hour.~~
- (f) ~~PM2.5 emissions from the four (4) plastic bead blasting units, identified as BLA074, BLA076, BLA078, and BLA080, each using a dust collector for control, shall not exceed 0.011 pounds per hour.~~
- (g) ~~PM2.5 emissions from the four (4) steel shot blasting units, identified as BLA075, BLA077, BLA079, and BLA081, each controlled by a baghouse, shall not exceed 0.027 pounds per hour.~~
- (h) ~~PM2.5 emissions from three (3) blasting units, identified as BLA-089, BLA-503, and BLA-506 controlled by one (1) baghouse, identified as DUC-503, shall not exceed 0.014 pounds per hour.~~
- (i) ~~PM2.5 emissions from one (1) plastic bead blasting unit, identified as BLA-067, controlled by one (1) baghouse, identified as BLA-067, shall not exceed 0.011 pounds per hour.~~
- (j) ~~PM2.5 emissions from one (1) plastic bead blasting unit, identified as BLA-090, controlled by one (1) baghouse, identified as BLA-090, shall not exceed 0.011 pounds per hour.~~
- (k) ~~PM2.5 emissions from one (1) plastic bead blasting unit, identified as BLA-091, controlled by one (1) baghouse, identified as BLA-091, shall not exceed 0.011 pounds per hour.~~
- (l) ~~PM2.5 emissions from the one (1) steel shot blasting unit, identified as BLA085, controlled by one (1) baghouse, identified as BLA-085, shall not exceed 0.068 pounds per hour.~~
- (m) ~~PM2.5 emissions from two (2) blasting units, identified as BLA504 and BLA-507, controlled by one (1) baghouse, identified as DUC-504, shall not exceed 0.0009 pounds per hour.~~
- (n) ~~PM2.5 emissions from the blasting operations controlled by four (4) baghouses, identified as BLA007, BLA009, BLA011, and DUC045, shall each be limited to 0.007, 0.022, 0.036, and 0.001 pounds per hour, respectively~~
- (o) ~~PM2.5 emissions from the grinding and machining operations controlled by eight (8) baghouses, identified as DUC001, DUC003, DUC006, DUC015, DUC021, DUC027, DUC045, and DUC-063 shall each be limited to 0.0018, 0.00046, 0.00046, 0.00023, 0.00046, 0.0032, 0.00023, and 1.04 pounds per hour, respectively.~~

Baghouse ID	Emission Unit ID	PM Limit (lb/hr)	PM10 Limit (lb/hr)	PM2.5 Limit (lb/hr)
BLA007	sandblasting	0.16	0.16	0.16
BLA009	sandblasting	0.51	0.51	0.51
BLA011	sandblasting	0.82	0.82	0.82
DUC003	BLA-018	2.39	2.39	2.39
DUC006	BLA-020	1.10	1.10	1.10
DUC015	grinding, sandblasting, machining	0.25	0.25	0.25
DUC021	grinding, sandblasting, machining	0.04	0.04	0.04
DUC-081	BLA-056, BLA076, BLA081, BLA067, BLA086, BLA087, BLA088, BLA084, BLA026, BLA-100, BLA-063, BLA-066	2.30	2.30	2.30
DUC-082	BLA-073, BLA078, BLA080, BLA079, BLA089, BLA033, BLA-046, BLA- 098, BLA-099, BLA-019, BLA-068	2.30	2.30	2.30
DUC-083	BLA-057, BLA074, BLA075, BLA091, BLA031, BLA032, BLA034, BLA042, BLA008, BLA-061, BLA-105, BLA- 083, BLA-097, BLA-094	2.30	2.30	2.30
DUC-084	BLA-037, BLA- 065, BLA-069, BLA041, BLA064	2.30	2.30	2.30

Compliance with this requirement ~~the above PM, PM10, and PM2.5 limits~~ in conjunction with similar requirements to the **PM, PM10, and PM2.5 PTE emissions from all** other emission units at the source shall limit the **PM, PM10, and PM_{2.5}** source wide emissions to ~~400~~ **less than 250** tons per twelve (12) consecutive month period, **each**. Therefore, the requirements of 326 IAC 2-4.1-5 **2-2 (PSD)** are rendered not applicable.

~~D.3.2 Particulate Matter (PM) [326 IAC 2-2]~~

In order to render the requirements of 326 IAC 2-2 not applicable for PM, the Permittee shall comply with the following:

- ~~(a) PM emissions from the grinding and machining operations and blasting units, identified as BLA-057, BLA031, BLA032, BLA034, BLA042, BLA008, controlled by a baghouse, identified as DUC051, shall each not exceed 2.438 pounds per hour, respectively.~~
- ~~(b) PM emissions from the grinding and machining operations and blasting units, identified as BLA-056, BLA-026, BLA-084, BLA-086, BLA-087, and BLA-088, controlled by a baghouse, identified as DUC052, shall each not exceed 3.858 pounds per hour, respectively.~~

- (c) ~~PM emissions from six (6) blasting units, identified as BLA-037, BLA-502, BLA-505, BLA041, BLA082, and BLA-064, controlled by one (1) baghouse, identified as DUC-068, shall not exceed 3.548 pounds per hour.~~
- (d) ~~PM emissions from the one (1) plastic bead abrasive blasting unit, identified as BLA-501, controlled by a baghouse, identified as BLA-501, shall not exceed 0.151 pounds per hour.~~
- (e) ~~PM emissions from the one (1) plastic bead abrasive blasting unit, identified as BLA-073, controlled by a dust collector, shall not exceed 0.228 pounds per hour.~~
- (f) ~~PM emissions from the four (4) plastic bead blasting units, identified as BLA074, BLA076, BLA078, and BLA080, each using a dust collector for control, shall not exceed 0.153 pounds per hour.~~
- (g) ~~PM emissions from the four (4) steel shot blasting units, identified as BLA075, BLA077, BLA079, and BLA081, each controlled by a baghouse, shall not exceed 0.144 pounds per hour.~~
- (h) ~~PM from three (3) blasting units, identified as BLA-089, BLA-503, and BLA-506 controlled by one (1) baghouse, identified as DUC-503, shall not exceed 1.285 pounds per hour.~~
- (i) ~~PM emissions from one (1) plastic bead blasting unit, identified as BLA-067, controlled by one (1) baghouse, identified as BLA-067, shall not exceed 0.153 pounds per hour.~~
- (j) ~~PM emissions from one (1) plastic bead blasting unit, identified as BLA-090, controlled by one (1) baghouse, identified as BLA-090, shall not exceed 0.153 pounds per hour.~~
- (k) ~~PM emissions from one (1) plastic bead blasting unit, identified as BLA-091, controlled by one (1) baghouse, identified as BLA-091, shall not exceed 0.153 pounds per hour.~~
- (l) ~~PM emissions from the one (1) steel shot blasting unit, identified as BLA085, controlled by one (1) baghouse, identified as BLA-085, shall not exceed 0.514 pounds per hour.~~
- (m) ~~PM emissions from two (2) blasting units, identified as BLA504 and BLA-507, controlled by one (1) baghouse, identified as DUC-504, shall not exceed .001 pounds per hour.~~
- (n) ~~PM emissions from the blasting operations controlled by four (4) baghouses, identified as BLA007, BLA009, BLA011, and DUC045, shall each be limited to 0.48, 1.40, 0.48, and 16.90 pounds per hour, respectively.~~
- (o) ~~PM emissions from the grinding and machining operations controlled by eight (8) baghouses, identified as DUC001, DUC003, DUC006, DUC015, DUC021, DUC027, DUC045, and DUC-063 shall each be limited to 1.03, 0.308, 4.628, 0.568, 0.500, 0.760, 3.858, and 3.08 pounds per hour, respectively.~~

~~Compliance with this requirement in conjunction with similar requirements to the other emission units at the source shall limit the PM source wide emissions to 250 tons per twelve (12) consecutive month period. Therefore, the requirements of 326 IAC 2-2 are rendered not applicable.~~

~~D.3.3 Particulate Matter (PM10) [326 IAC 2-2]~~

~~In order to render the requirements of 326 IAC 2-2 not applicable for PM10, the Permittee shall comply with the following:~~

- (a) ~~PM10 emissions from the grinding and machining operations and blasting units, identified as BLA-057, BLA031, BLA032, BLA034, BLA042, BLA008, controlled by a baghouse, identified as DUC051, shall each not exceed 2.438 pounds per hour, respectively.~~

- ~~(b) PM10 emissions from the grinding and machining operations and blasting units, identified as BLA-056, BLA-026, BLA-084, BLA-086, BLA-087, and BLA-088 controlled by a baghouse, identified as DUC052, shall each not exceed 3.858 pounds per hour, respectively~~
- ~~(c) PM10 emissions from six (6) blasting units, identified as BLA-037, BLA-502, BLA-505, BLA041, BLA082, and BLA-064 controlled by one (1) baghouse, identified as DUC-068, shall not exceed 3.548 pounds per hour.~~
- ~~(d) PM10 emissions from the one (1) plastic bead abrasive blasting unit, identified as BLA-501, controlled by a baghouse, identified as BLA-501, shall not exceed 0.151 pounds per hour.~~
- ~~(e) PM10 emissions from the one (1) plastic bead abrasive blasting unit, identified as BLA-073, controlled by a dust collector, shall not exceed 0.228 pounds per hour.~~
- ~~(f) PM10 emissions from the four (4) plastic bead blasting units, identified as BLA074, BLA076, BLA078, and BLA080, each using a dust collector for control, shall not exceed 0.153 pounds per hour.~~
- ~~(g) PM10 emissions from the four (4) steel shot blasting units, identified as BLA075, BLA077, BLA079, and BLA081, each controlled by a baghouse, shall not exceed 0.144 pounds per hour.~~
- ~~(h) PM10 from three (3) blasting units, identified as BLA-089, BLA-503, and BLA-506 controlled by one (1) baghouse, identified as DUC-503, shall not exceed 1.285 pounds per hour.~~
- ~~(i) PM10 emissions from one (1) plastic bead blasting unit, identified as BLA-067, controlled by one (1) baghouse, identified as BLA-067, shall not exceed 0.153 pounds per hour.~~
- ~~(j) PM10 emissions from one (1) plastic bead blasting unit, identified as BLA-090, controlled by one (1) baghouse, identified as BLA-090, shall not exceed 0.153 pounds per hour.~~
- ~~(k) PM10 emissions from one (1) plastic bead blasting unit, identified as BLA-091, controlled by one (1) baghouse, identified as BLA-091, shall not exceed 0.153 pounds per hour.~~
- ~~(l) PM10 emissions from the one (1) steel shot blasting unit, identified as BLA085, controlled by one (1) baghouse, identified as BLA-085, shall not exceed 0.514 pounds per hour.~~
- ~~(m) PM10 emissions from two (2) blasting units, identified as BLA504 and BLA-507, controlled by one (1) baghouse, identified as DUC-504, shall not exceed .001 pounds per hour.~~
- ~~(n) PM10 emissions from the blasting operations controlled by four (4) baghouses, identified as BLA007, BLA009, BLA011, and DUC045, shall each be limited to 0.48, 1.40, 0.48, and 16.90 pounds per hour, respectively.~~
- ~~(o) PM10 emissions from the grinding and machining operations controlled by eight (8) baghouses, identified as DUC001, DUC003, DUC006, DUC015, DUC021, DUC027, DUC045, and DUC-063 shall each be limited to 1.03, 0.308, 4.628, 0.568, 0.509, 0.769, 3.858, and 3.08 pounds per hour, respectively.~~

~~Compliance with this requirement in conjunction with similar requirements to the other emission units at the source shall limit the PM10 source wide emissions to 250 tons per twelve (12) consecutive month period. Therefore, the requirements of 326 IAC 2-2 are rendered not applicable.~~

D.3.42 Particulate Matter (PM) [326 IAC 6.5-1-2]

- ~~(a) Pursuant to 326 IAC 6.5-1-2(a), particulate matter emissions from the sanding, grinding and machining operations, and blasting units, identified as BLA-056, BLA-057, BLA031, BLA032, BLA034, BLA042, BLA008, BLA-026, BLA-084, BLA-086, BLA-087, and BLA-088 controlled by two (2) baghouses, identified as DUC051 and DUC052, shall each not exceed 0.03 grains per dry standard cubic foot.~~
- ~~(b) Pursuant to 326 IAC 6.5-1-2(a), particulate matter emissions from six (6) blasting units, identified as BLA-037, BLA-502, BLA-505, BLA041, BLA082, and BLA-064 controlled by one (1) baghouse, identified as DUC-068, shall not exceed 0.03 grains per dry standard cubic foot.~~
- ~~(c) Pursuant to 326 IAC 6.5-1-2(a), particulate matter emissions from the one (1) plastic bead abrasive blasting unit, identified as BLA-501, controlled by a baghouse, identified as BLA-501, shall not exceed 0.03 grains per dry standard cubic foot.~~
- ~~(d) Pursuant to 326 IAC 6.5-1-2(a), 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.~~
- ~~(e) Pursuant to 326 IAC 6.5-1-2(a), particulate matter emissions from the four (4) plastic bead blasting units, identified as BLA074, BLA076, BLA078, and BLA080, each using a dust collector for control, shall not exceed 0.03 grains per dry standard cubic foot each.~~
- ~~(f) Pursuant to 326 IAC 6.5-1-2(a), particulate matter emissions from the four (4) steel shot blasting units, identified as BLA075, BLA077, BLA079, and BLA081, shall not exceed 0.03 grains per dry standard cubic foot each.~~
- ~~(g) Pursuant to 326 IAC 6.5-1-2(a), particulate matter emissions from three (3) blasting units, identified as BLA-089, BLA-503, and BLA-506 controlled by one (1) baghouse, identified as DUC-503, shall not exceed 0.03 grains per dry standard cubic foot.~~
- ~~(h) Pursuant to 326 IAC 6.5-1-2(a), particulate matter emissions from one (1) plastic bead blasting unit, identified as BLA-067, controlled by one (1) baghouse, identified as BLA-067, shall not exceed 0.03 grains per dry standard cubic foot.~~
- ~~(i) Pursuant to 326 IAC 6.5-1-2(a), particulate matter emissions from one (1) plastic bead blasting unit, identified as BLA-090, controlled by one (1) baghouse, identified as BLA-090, shall not exceed 0.03 grains per dry standard cubic foot.~~
- ~~(j) Pursuant to 326 IAC 6.5-1-2(a), particulate matter emissions from one (1) plastic bead blasting unit, identified as BLA-091, controlled by one (1) baghouse, identified as BLA-091, shall not exceed 0.03 grains per dry standard cubic foot.~~
- ~~(k) Pursuant to 326 IAC 6.5-1-2(a), particulate matter emissions from the one (1) steel shot blasting unit, identified as BLA085, controlled by one (1) baghouse, identified as BLA-085, shall not exceed 0.03 grains per dry standard cubic foot.~~
- ~~(l) Pursuant to 326 IAC 6.5-1-2(a), particulate matter emissions from two (2) blasting units, identified as BLA504 and BLA-507, controlled by one (1) baghouse, identified as DUC-504, shall not exceed 0.03 grains per dry standard cubic foot.~~
- ~~(m) Pursuant to 326 IAC 6.5-1-2(a), particulate matter emissions from the blasting operations controlled by four (4) baghouses, identified as BLA007, BLA009, BLA011, and DUC045, and grinding and machining operations controlled by eight (8) baghouses, identified as DUC001, DUC003, DUC006, DUC015, DUC021, DUC027, DUC045, and DUC-063 shall each be limited to 0.03 grains per dry standard cubic foot.~~

D.3.53 Opacity [326 IAC 2-7-10.5]

Pursuant to Significant Permit Modification No. 037-17110-00089, issued on July 11, 2003 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, **and controlled by DUC-084**, when venting inside the building.

D.3.64 Preventive Maintenance Plan [326 IAC 2-7-5(4312)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for ~~BLA008, BLA031, BLA032, BLA034, BLA-037, BLA041, BLA042, BLA-056, BLA-057, BLA-073, BLA074-BLA082, BLA026, BLA064, BLA067, BLA084-BLA091, BLA-501, BLA-502, and BLA-505~~ for these facilities and their control devices. **Section B - Preventive Maintenance Plan contains the Permittee's obligation with regard to the preventive maintenance plan required by this condition.**

Compliance Determination Requirement

D.3.75 Particulate Control

(a) In order to comply with Conditions D.3.1, **and D.3.2, D.3.3 and D.3.4** the baghouses for particulate control shall be in operation and control emissions from **the emission units at all times that the emission units are in operation as listed in the table below:** ~~BLA-073, BLA-037, BLA-501, BLA074-BLA082, BLA-502, BLA-505, BLA026, BLA064, BLA067, and BLA084-BLA091~~ at all times that the units are in operation.

Baghouse ID	Emission Unit ID
BLA007	sandblasting
BLA009	sandblasting
BLA011	sandblasting
DUC003	BLA-018
DUC006	BLA-020
DUC015	grinding, sandblasting, machining
DUC021	grinding, sandblasting, machining
DUC-081	BLA-056, BLA076, BLA081, BLA067, BLA086, BLA087, BLA088, BLA084, BLA026, BLA-100, BLA-063, BLA-066
DUC-082	BLA-073, BLA078, BLA080, BLA079, BLA089, BLA033, BLA-046, BLA-098, BLA-099, BLA-019, BLA-068
DUC-083	BLA-057, BLA074, BLA075, BLA091, BLA031, BLA032, BLA034, BLA042, BLA008, BLA-061, BLA-105, BLA-083, BLA-097, BLA-094
DUC-084	BLA-037, BLA-065, BLA-069, BLA041, BLA064
BLA-045	BLA045
BLA-085	BLA085
BLA-077	BLA077
BLA090	BLA090

(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.

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

D.3.86 Parametric Monitoring

The Permittee shall record the pressure drop across ~~the~~ **all baghouse or dust collectors** used in conjunction **with each** the grinding and machining process, and ~~the one (1) soda~~ **each** blasting unit (BLA-037), ~~controlled for PM by baghouse DUC-068~~, at least once per day when the **associated** units are in operation when venting to the atmosphere. When for any one reading, the pressure drop across the baghouse is outside the normal range, **the Permittee shall take a reasonable response. The normal range for these units is indicated in the table below unless a different upper-bound or lower-bound value for this range is determined 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 and Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition.** 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.

Baghouse ID	Emission Unit ID	Pressure Drop Range ("H ₂ O)
BLA007	sandblasting	1.0 - 6.0
BLA009	sandblasting	1.0 - 6.0
BLA011	sandblasting	1.0 - 6.0
DUC003	BLA-018	1.0 - 6.0
DUC006	BLA-020	1.0 - 6.0
DUC015	grinding, sandblasting, machining	1.0 - 6.0
DUC021	grinding, sandblasting, machining	1.0 - 6.0
DUC-081	BLA-056, BLA076, BLA081, BLA067, BLA086, BLA087, BLA088, BLA084, BLA026, BLA- 100, BLA-063, BLA-066	2.0 - 5.0
DUC-082	BLA-073, BLA078, BLA080, BLA079, BLA089, BLA033, BLA- 046, BLA-098, BLA-099, BLA-019, BLA-068	2.0 - 5.0
DUC-083	BLA-057, BLA074, BLA075, BLA091, BLA031, BLA032, BLA034, BLA042, BLA008, BLA- 061, BLA-105, BLA-083, BLA-097, BLA-094	2.0 - 5.0
DUC-084	BLA-037, BLA-065, BLA-069, BLA041, BLA064	2.0 - 5.0
BLA-045	BLA045	1.0 - 6.0
BLA-085	BLA085	1.0 - 6.0
BLA-077	BLA077	1.0 - 6.0
BLA090	BLA090	1.0 - 6.0

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 **or replaced** at least once every six (6) months.

D.3.7 Baghouse Inspections

An inspection shall be performed semi-annually of all bags and dust collectors controlling each grinding and machining process and each blasting unit. All defective bags or cartridges shall be replaced.

D.3.98 Broken or Failed Bag Detection

- (a) For a single compartment baghouses 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 the grinding and machining process, and the one (1) soda blasting unit (BLA-037).~~ 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.

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

D.3.409 Record Keeping Requirements

- (a) To document ~~the compliance status~~ with Condition D.3.86, the Permittee shall maintain ~~a daily records~~ of the pressure drop across the baghouse **controlling the process**. The Permittee shall include in its daily record when ~~the a pressure drop across the baghouse reading~~ is not taken and the reason for the **lack of a pressure drop was not taken reading** (e.g. the process did not operate that day).
- (b) **To document the compliance status with Condition D.3.7, the Permittee shall maintain records of the results of the inspections required under Condition D.3.7.**
- (c) ~~All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit~~ **contains the Permittee's obligation with regard to the records required by this condition.**

SECTION D.4 EMISSIONS UNIT OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(4514)]: Insignificant Activities

Insignificant Activities:

- (~~h~~k) 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]
- (~~m~~l) 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]
- (~~n~~m) 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]
- (s) **Activities associated with emergencies, including emergency diesel generators not exceeding one thousand six hundred (1,600) horsepower.**

(1) One (1) emergency diesel generator, approved in 2012 for construction, identified as UPS-027, with a maximum heat output of 227 horsepower. [326 IAC 6.5-1-2]

Under NSPS, Subpart IIII, this unit is considered to be an affected facility. Under NESHAP, Subpart ZZZZ, this unit is considered to be an affected facility.

(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)]

- (a)** Pursuant to 326 IAC 6.5-1-2 (b)(3) (Particulate ~~Matter~~ Limitations **Except Lake County-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.
- (b)** Pursuant to 326 IAC 6.5-1-2 (b)(2) (Particulate Matter Limitations **Except Lake County**) the PM from the 227 hp emergency diesel generator shall be limited to 0.15 pound per MMBtu.

~~Compliance Determination Requirement~~

SECTION E.1 NEW SOURCE PERFORMANCE STANDARDS FOR STATIONARY COMPRESSION IGNITION INTERNAL COMBUSTION ENGINES [40 CFR 60, Subpart IIII]

Facility Description [326 IAC 2-7-5(14)]

(s) Activities associated with emergencies, including emergency diesel generators not exceeding one thousand six hundred (1,600) horsepower.

(1) One (1) emergency diesel generator, approved in 2012 for construction, identified as UPS-027, with a maximum heat output of 227 horsepower. [326 IAC 6.5-1-2]

Under NSPS, Subpart IIII, this unit is considered to be an affected facility. Under NESHAP, Subpart ZZZZ, this unit is considered to be an affected facility.

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

New Source Performance Standards (NSPSP) Requirements

E.1.1 General Provisions Relating to New Source Performance Standards [326 IAC 12-1] [40 CFR 60, Subpart A]

- (a)** The Permittee shall comply with the provisions of 40 CFR Part 60, Subpart A – General Provisions, which are incorporated by reference as 326 IAC 12, for the Industrial-Commercial-Institutional Steam Generating Units, as specified in 40 CFR 60, Subpart IIII in accordance with the schedule in 40 CFR 60, Subpart IIII.
- (b)** Pursuant to 40 CFR 60.19, the Permittee shall submit all required notifications and reports to:

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

E.1.2 New Source Performance Standards for Stationary Compression Ignition Internal Combustion Engines [40 CFR 60, Subpart IIII][326 IAC 12]

The Permittee shall comply with the following provisions of 40 CFR Part 60, Subpart IIII (included in its entirety as Attachment A), which are incorporated by reference as 326 IAC 12, for the Stationary Compression Ignition Internal Combustion Engines:

- (1) 40 CFR 60.4200 (a)(4), (c)
- (2) 40 CFR 60.4205 (b), (e)
- (3) 40 CFR 60.4206
- (4) 40 CFR 60.4207 (b)
- (5) 40 CFR 60.4208
- (6) 40 CFR 60.4209 (a)
- (7) 40 CFR 60.4211 (a), (c), (f), (g)(2)
- (8) 40 CFR 60.4212 except (d)
- (9) 40 CFR 60.4214 (b), (c)
- (10) 40 CFR 60.4218
- (11) 40 CFR 60.4219
- (12) Table 5
- (13) Table 8

**SECTION E.2 NATIONAL EMISSION STANDARDS FOR HAZARDOUS AIR POLLUTANTS:
STATIONAIRY RECIPROCATING INTERNAL COMBUSTION ENGINES [40 CFR 63,
Subpart ZZZZ]**

Facility Description [326 IAC 2-7-5(14)]

- (s) Activities associated with emergencies, including emergency diesel generators not exceeding one thousand six hundred (1,600) horsepower.
- (1) One (1) emergency diesel generator, approved in 2012 for construction, identified as UPS-027, with a maximum heat output of 227 horsepower. [326 IAC 6.5-1-2]

Under NSPS, Subpart IIII, this unit is considered to be an affected facility. Under NESHAP, Subpart ZZZZ, this unit is considered to be an affected facility.

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

National Emission Standards for Hazardous Air Pollutants (NESHAP) Requirements

E.2.1 General Provisions Relating to NESHAP ZZZZ [326 IAC 20-1] [40 CFR 63, Subpart A]

- (a) Pursuant to 40 CFR 63.6605, the Permittee shall comply with the provisions of 40 CFR Part 63, Subpart A – General Provisions, which are incorporated by reference as 326 IAC 20-1-1, as specified in 40 CFR Part 63, Subpart ZZZZ in accordance with schedule in 40 CFR 63 Subpart ZZZZ.
- (b) Pursuant to 40 CFR 63.10, the Permittee shall submit all required notifications and reports to:

**Indiana Department of Environmental Management
Compliance and Enforcement 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**

E.2.2 Stationary Reciprocating Internal Combustion Engines NESHAP [40 CFR 63, Subpart ZZZZ]

The Permittee which operates stationary reciprocating internal combustion engines shall comply with the following provisions of 40 CFR 63, Subpart ZZZZ (included in its entirety as Attachment B of this permit), which are incorporated by reference as 326 IAC 20-82, as specified as follows:

- (1) 40 CFR 63.6580
- (2) 40 CFR 63.6585 (a), (c), (d)
- (3) 40 CFR 63.6590 (a)(2)(iii), (c)(1)
- (4) 40 CFR 63.6595 (a)(7)
- (5) 40 CFR 63.6665
- (6) 40 CFR 63.6670
- (7) 40 CFR 63.6675
- (8) Table 8

Summary of Model Updates for the forms

The following changes have been made to the forms at the end of the permit:

- (a) IDEM, OAQ has decided to remove all references to the source mailing address. IDEM, OAQ will continue to maintain records of the mailing address.
- (b) IDEM, OAQ has decided to remove the last sentence dealing with the need for certification from the forms because the Conditions requiring the forms already address this issue.
- (c) The phrase "of this permit" has been added to the paragraph of the Quarterly Deviation and Compliance Monitoring Report to match the underlying rule. IDEM, OAQ has clarified the interaction of the Quarterly Deviation and Compliance Monitoring Report and the Emergency Provisions.

**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.: T037-26692-00089

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE AND ENFORCEMENT BRANCH, OFFICE OF AIR QUALITY
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.: T037-26692-00089

Form Completed by: _____

Title / Position: _____

Date: _____

Phone: _____

~~A certification is not required for this report.~~

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
COMPLIANCE AND ENFORCEMENT BRANCH, OFFICE OF AIR QUALITY
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.: T037-26692-00089
Facility: Reciprocating Internal Combustion Engines and Controlled Pyrolysis Cleaning
Furnaces (OVE001-OVE004 and OVE013 – OVE015)
Parameter: Fuel Usage
Limit: ***

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
COMPLIANCE AND ENFORCEMENT BRANCH, OFFICE OF AIR QUALITY

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.: T037-26692-00089
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.

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
COMPLIANCE AND ENFORCEMENT BRANCH, OFFICE OF AIR QUALITY
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.: T037-26692-00089
Facility: Surface Coating Operations (Engine, Stern Drive, Radiator, Diesel Engine, Transmission, PTB-007, PTB012)
Parameter: VOC Usage
Limit: Shall not exceed 60 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

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
COMPLIANCE AND ENFORCEMENT BRANCH, OFFICE OF AIR QUALITY

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.: T037-26692-00089

Months: _____ to _____ Year: _____

Page 1 of 2

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

Form Completed by: _____

Title / Position: _____

Date: _____

Phone: _____

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

Conclusion and Recommendation

The construction of this proposed modification shall be subject to the conditions of the attached proposed Part 70 Significant Source Modification No. 037-31873-00089 and Significant Permit Modification No. 037-31937-00089. The staff recommend to the Commissioner that this Part 70 Significant Source and Significant Permit Modification be approved.

IDEM Contact

- (a) Questions regarding this proposed permit can be directed to Kristen Willoughby at the Indiana Department Environmental Management, Office of Air Quality, Permits Branch, 100 North Senate Avenue, MC 61-53 IGCM 1003, Indianapolis, Indiana 46204-2251 or by telephone at (317) 233-3031 or toll free at 1-800-451-6027 extension 3-3031.
- (b) A copy of the findings is available on the Internet at: <http://www.in.gov/ai/appfiles/idem-caats/>
- (c) For additional information about air permits and how the public and interested parties can participate, refer to the IDEM's Guide for Citizen Participation and Permit Guide on the Internet at: www.idem.in.gov

Appendix A: Emission Calculations Summary

Company Name: Jasper Engine Exchange, Inc.
 Address City IN Zip: 815 Wernsing Road, Jasper, IN 47547
 Significant Source Modification No.: 037-31873-00089
 Significant Permit Modification No.: 037-31937-00089
 Reviewer: Kristen Willoughby
 Date: May 23, 2012

Potential Emissions (tons/year, uncontrolled)									
Emissions Generating Activity									
Pollutant	Surface Coating	Aerosol Spray	Cleaning & Final Wash	Degreasing	Combustion	Cleaning Furnaces	Emergency Generator	Blasting* Dust Collection	Total Emissions (tons/yr)
VOC	59.04	6.30	3.42	91.40	235.06	61.01	0.14	-	456.38
PM	35.30	0.44	-	-	44.97	46.79	0.12	328.12	455.74
PM10	35.30	0.44	-	-	45.83	46.84	0.12	299.68	428.20
PM2.5	35.30	0.44	-	-	45.83	46.84	0.12	299.68	428.20
SO2	-	-	-	-	40.86	0.07	0.12	-	41.04
NOx	-	-	-	-	831.48	1.70	1.76	-	834.94
CO	-	-	-	-	3996.11	175.83	0.38	-	4172.32
GHG	-	-	-	-	34,541	909.53	65.48	-	35,516
Total HAPs	32.54	2.07	0.51	-	1.75	3.3E-02	1.5E-03	-	36.91
Worst Case Single HAP (Toluene)	12.34	0.55	-	-	3.66E-04	6.0E-05	1.6E-04	-	12.89

*Uncontrolled PTE was not calculated for all units in this group.

Limited Emissions (tons/year)									
Emissions Generating Activity									
Pollutant	Surface Coating	Aerosol Spray	Cleaning & Final Wash	Degreasing	Combustion**	Cleaning Furnaces	Emergency Generator	Blasting Dust Collection	Total Emissions (tons/yr)
VOC	65.73	6.30	3.42	91.40	7.43	61.01	0.14	-	235.43
PM	35.30	0.44	-	-	1.98	46.79	0.12	101.22	185.86
PM10	35.30	0.44	-	-	2.84	46.84	0.12	101.22	186.76
PM2.5	35.30	0.44	-	-	2.84	46.84	0.12	101.22	186.76
SO2	-	-	-	-	1.15	0.07	0.12	-	1.34
NOx	-	-	-	-	234.01	1.70	1.76	-	237.47
CO	-	-	-	-	49.70	175.83	0.38	-	225.91
GHG	-	-	-	-	26542.43	909.53	65.48	-	27,517
Total HAPs	22.00	2.07	0.51	-	0.06	-	1.5E-03	-	24.65
Worst Case Single HAP (Toluene)	9.00	0.55	-	-	3.57E-04	-	1.6E-04	-	9.55

** The source will limit the IC Engine combustions to: (1) 10,000 gal/yr of gasoline; (2) 50,000 gal/yr of diesel fuel; and (3) 119.7 MMCF/yr of natural gas. These limitations will limit source wide VOC, NOx and CO emissions to less than 250 tons/yr. Therefore, the requirements of PSD, 326 IAC 2-2, do not apply.

Potential Emissions from the Modification (tons/year, uncontrolled)									
Emissions Generating Activity									
Pollutant	Surface Coating	Aerosol Spray	Cleaning & Final Wash	Degreasing	Combustion	Cleaning Furnaces	Emergency Generator	Blasting Dust Collection	Total Emissions (tons/yr)
VOC	<0	-	<0	<0	-	15.26	0.14	-	15.40
PM	<0	-	-	-	-	11.83	0.12	81.61	93.57
PM10	<0	-	-	-	-	11.85	0.12	69.84	81.82
PM2.5	<0	-	-	-	-	11.85	0.12	69.84	81.82
SO2	-	-	-	-	-	0.02	0.12	-	0.13
NOx	-	-	-	-	-	0.55	1.76	-	2.31
CO	-	-	-	-	-	44.06	0.38	-	44.44
GHG	-	-	-	-	-	380.74	65.48	-	446.22
Total HAPs	<0	-	<0	<0	-	6.0E-03	1.5E-03	-	7.5E-03
Worst Case Single HAP	<0	-	<0	-	-	5.7E-03	4.7E-04	-	5.7E-03

**Appendix A: Emission Calculations
VOC and Particulate
From Surface Coating Operations**

Company Name: Jasper Engine Exchange, Inc.
Address City IN Zip: 815 Wernsing Road, Jasper, IN 47547
Significant Source Modification No.: 037-31873-00089
Significant Permit Modification No.: 037-31937-00089
Reviewer: Kristen Willoughby
Date: May 23, 2012

Potential Emissions (uncontrolled):																		
Material (as applied)	Process	Density (Lb/Gal)	Weight % Volatile (H2O& Organics)	Weight % Water	Weight % Organics	Volume % Water	Volume % Non-Vol (solids)	Gal of Mat (gal/unit)	Maximum (unit/hour)	Pounds VOC per gallon of coating less water	Pounds VOC per gallon of coating	Potential VOC pounds per hour	Potential VOC pounds per day	Potential VOC tons per year	Particulate Potential ton/yr	lb VOC /gal solids	Transfer Efficiency	
Engine Paint Booth																		
P1432 Gray	Spray Coating	7.45	64.63%	0.00%	64.63%	0.00%	24.96%	0.040	30.00	4.8	4.81	5.78	138.67	25.31	6.92	38.58	50.00%	
P1438 Black	Spray Coating	7.35	64.55%	0.00%	64.55%	0.00%	27.27%	0.040	30.00	4.7	4.74	5.69	136.64	24.94	6.85	34.80	50.00%	
VM & P Naphtha	Engine Cleaning	6.20	100.00%	0.00%	100.00%	0.00%	0.00%	0.060	30.00	6.2	6.20	11.10	266.40	48.62	0.00			
Stern Drive Paint Booth																		
Yellow Primer	Spray Coating	9.03	57.51%	0.00%	57.51%	0.00%	25.95%	0.040	3.00	5.2	5.19	0.62	14.96	2.73	1.01	40.02	50.00%	
Gray Primer	Spray Coating	10.16	50.95%	0.00%	50.95%	0.00%	27.51%	0.040	3.00	5.2	5.18	0.62	14.91	2.72	1.31	37.63	50.00%	
Black Enamel	Spray Coating	7.82	58.38%	0.00%	58.38%	0.00%	35.97%	0.040	3.00	4.6	4.57	0.55	13.15	2.40	0.86	25.38	50.00%	
Dark Grey	Spray Coating	7.85	59.77%	0.00%	59.77%	0.00%	34.33%	0.040	3.00	4.7	4.69	0.56	13.51	2.47	0.83	27.33	50.00%	
Oyster White	Spray Coating	9.40	48.57%	0.00%	48.57%	0.00%	36.12%	0.040	3.00	4.6	4.57	0.55	13.15	2.40	1.27	25.28	50.00%	
Radiators Paint Booth																		
P1439 Black	Spray Coating	8.93	46.90%	41.10%	5.80%	33.10%	31.90%	0.100	10.00	0.8	0.52	0.52	12.43	2.27	10.38	3.25	50.00%	
Diesel Engine Paint Booth																		
P1043 Tan	Spray Coating	8.49	55.16%	0.00%	55.16%	0.00%	26.80%	0.500	3.00	4.7	4.68	7.02	168.59	30.77	12.51	34.95	50.00%	
P1350 Blue	Spray Coating	7.74	61.52%	0.00%	61.52%	0.00%	25.84%	0.500	3.00	4.8	4.76	7.14	171.42	31.28	9.78	36.85	50.00%	
P1352 Lt. Green	Spray Coating	7.60	63.07%	0.00%	63.07%	0.00%	25.04%	0.500	3.00	4.8	4.79	7.19	172.56	31.49	9.22	38.29	50.00%	
P1398 Red	Spray Coating	7.76	61.67%	0.00%	61.67%	0.00%	27.20%	0.500	3.00	4.8	4.79	7.18	172.28	31.44	9.77	35.19	50.00%	
P1421 Yellow	Spray Coating	8.36	59.34%	0.00%	59.34%	0.00%	26.64%	0.500	3.00	5.0	4.96	7.44	178.59	32.59	11.17	37.24	50.00%	
P1432 Grey	Spray Coating	7.45	64.63%	0.00%	64.63%	0.00%	24.96%	0.500	3.00	4.8	4.81	7.22	173.34	31.63	8.66	38.58	50.00%	
P1436 Green	Spray Coating	7.80	61.72%	0.00%	61.72%	0.00%	24.96%	0.500	3.00	4.8	4.81	7.22	173.31	31.63	9.81	38.58	50.00%	
P1438 Black	Spray Coating	7.35	64.55%	0.00%	64.55%	0.00%	27.27%	0.500	3.00	4.7	4.74	7.12	170.80	31.17	8.86	34.80	50.00%	
Transmission, Converter, Axle Housing, Differential Paint Booth																		
L1964 Copper	Spray Coating	7.25	83.36%	0.00%	83.36%	0.00%	12.48%	0.040	2.00	6.0	6.04	0.48	11.60	2.12	0.21	96.85	50.00%	
P1113 Primer	Spray Coating	8.62	53.52%	0.00%	53.52%	0.00%	28.08%	0.040	2.00	4.6	4.61	0.37	8.86	1.62	0.70	32.86	50.00%	
P1350 Blue	Spray Coating	7.74	61.52%	0.00%	61.52%	0.00%	25.84%	0.040	2.00	4.8	4.76	0.38	9.14	1.67	0.52	36.85	50.00%	
P1432 Grey	Spray Coating	7.45	64.63%	0.00%	64.63%	0.00%	31.20%	0.040	2.00	4.8	4.81	0.39	9.24	1.69	0.46	30.86	50.00%	
P1434 Aluminum	Spray Coating	7.43	65.64%	0.00%	65.64%	0.00%	24.16%	0.040	2.00	4.9	4.88	0.39	9.36	1.71	0.45	40.37	50.00%	
P1436 Green	Spray Coating	7.80	61.72%	0.00%	61.72%	0.00%	31.20%	0.040	2.00	4.8	4.81	0.39	9.24	1.69	0.52	30.86	50.00%	
P1438 Black	Spray Coating	7.35	64.55%	0.00%	64.55%	0.00%	27.27%	0.040	2.00	4.7	4.74	0.38	9.11	1.66	0.46	34.80	50.00%	
PTB-007																		
E77AC503	Spray Coating	8.86	61.40%	52.50%	8.90%	55.80%	33.80%	0.010	30.00	1.8	0.79	0.24	5.68	1.04	2.25	4.67	50.00%	
PTB012																		
B42W111	Spray Coating	9.80	54.10%	45.50%	8.60%	53.50%	36.30%	0.400	4.00	1.8	0.84	1.35	32.36	5.91	15.76	4.64	50.00%	
Thinner for Cleaning																		
T260 Thinner	Cleaning	6.54	100.00%	0.00%	100.00%	0.00%	0.00%	0.20	Gal/hr	6.5	6.54	1.31	31.39	5.73	0.00		100.00%	
Total Uncontrolled Potential Emissions:												28.84	692.08	126.31	36.32			
Potential Emissions (controlled):																		
Total Controlled Potential Emissions:										Control Efficiency:		Controlled VOC lbs per Hour	Controlled VOC lbs per Day	Controlled VOC tons per Year	Controlled PM tons/yr			
										0.00%	85.00%	28.84	692.08	126.31	5.45			

Methodology:

Pounds of VOC per Gallon Coating less Water = (Density (lb/gal) * Weight % Organics) / (1-Volume % water)
 Pounds of VOC per Gallon Coating = (Density (lb/gal) * Weight % Organics)
 Potential VOC Pounds per Hour = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr)
 Potential VOC Pounds per Day = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr) * (24 hr/day)
 Potential VOC Tons per Year = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr) * (8760 hrs/yr) * (1 ton/2000 lbs)
 Particulate Potential Tons per Year = (units/hour) * (gal/unit) * (lb/gal) * (1-Weight % Volatiles) * (1-Transfer efficiency) * (8760 hrs/yr) * (1 ton/2000 lbs)
 Pounds VOC per Gallon of Solids = (Density (lbs/gal) * Weight % organics) / (Volume % solids) * Transfer Efficiency
 Coating usages are mutually exclusive for each coating booth. Therefore, Total = Worst Coating + Sum of all solvents used
 Controlled emission rate = uncontrolled emission rate * (1 - control efficiency)

**Appendix A: Emission Calculations
VOC and Particulate
From Surface Coating Operations**

Company Name: Jasper Engine Exchange, Inc.
Address City IN Zip: 815 Wernsing Road, Jasper, IN 47547
Significant Source Modification No.: 037-31873-00089
Significant Permit Modification No.: 037-31937-00089
Reviewer: Kristen Willoughby
Date: May 23, 2012

Potential Emissions (uncontrolled):																				
Material (as applied)	Process	Density (Lb/Gal)	Weight % Volatile (H2O& Organics)	Weight % Water & Exempt Solvents	Weight % Organics	Volume % Water	Volume % Non-Vol (solids)	Gal of Mat (gal/unit)	Maximum (unit/hour)	Pounds VOC per gallon of coating less water	Pounds VOC per gallon of coating	Potential VOC pounds per hour	Potential VOC pounds per day	Potential VOC tons per year	Particulate Potential ton/yr	lb VOC /gal solids	Transfer Efficiency			
Engine Paint Booth																				
F77AC503 Gray	Spray Coating	8.87	61.10%	52.10%	9.00%	55.50%	34.00%	0.040	30.00	1.8	0.80	0.96	22.99	4.20	9.07	4.70	50.00%			
F77B551 Black	Spray Coating	8.57	63.90%	53.50%	10.40%	55.00%	33.40%	0.040	30.00	2.0	0.89	1.07	25.67	4.68	8.13	5.34	50.00%			
L-1770	Engine Cleaning	11.29	99.00%	99.00%	0.00%	0.00%	1.00%	0.060	30.00	0.0	0.00	0.00	0.00	0.00	0.44	0.00	50.00%			
Stern Drive Paint Booth																				
Yellow Primer	Spray Coating	9.03	57.51%	0.00%	57.51%	0.00%	25.95%	0.040	3.00	5.2	5.19	0.62	14.96	2.73	1.01	40.02	50.00%			
Gray Primer	Spray Coating	10.16	50.95%	0.00%	50.95%	0.00%	27.51%	0.040	3.00	5.2	5.18	0.62	14.91	2.72	1.31	37.63	50.00%			
Black Enamel	Spray Coating	7.82	58.38%	0.00%	58.38%	0.00%	35.97%	0.040	3.00	4.6	4.57	0.55	13.15	2.40	0.86	25.38	50.00%			
Dark Grey	Spray Coating	7.85	59.77%	0.00%	59.77%	0.00%	34.33%	0.040	3.00	4.7	4.69	0.56	13.51	2.47	0.83	27.33	50.00%			
Oyster White	Spray Coating	9.40	48.57%	0.00%	48.57%	0.00%	36.12%	0.040	3.00	4.6	4.57	0.55	13.15	2.40	1.27	25.28	50.00%			
Radiators Paint Booth																				
F77B551 Black	Spray Coating	8.57	63.90%	53.50%	10.40%	55.00%	33.40%	0.100	10.00	2.0	0.89	0.89	21.39	3.90	6.78	5.34	50.00%			
Diesel Engine Paint Booth																				
P1043 Tan	Spray Coating	8.49	55.16%	0.00%	55.16%	0.00%	26.80%	0.500	3.00	4.7	4.68	7.02	168.59	30.77	12.51	34.95	50.00%			
P1350 Blue	Spray Coating	7.74	61.52%	0.00%	61.52%	0.00%	25.84%	0.500	3.00	4.8	4.76	7.14	171.42	31.28	9.78	36.85	50.00%			
P1352 Lt. Green	Spray Coating	7.60	63.07%	0.00%	63.07%	0.00%	25.04%	0.500	3.00	4.8	4.79	7.19	172.56	31.49	9.22	38.29	50.00%			
P1398 Red	Spray Coating	7.76	61.67%	0.00%	61.67%	0.00%	27.20%	0.500	3.00	4.8	4.79	7.18	172.28	31.44	9.77	35.19	50.00%			
P1421 Yellow	Spray Coating	8.36	59.34%	0.00%	59.34%	0.00%	26.64%	0.500	3.00	5.0	4.96	7.44	178.59	32.59	11.17	37.24	50.00%			
F77AC503 Gray	Spray Coating	8.87	61.10%	52.10%	9.00%	55.50%	34.00%	0.500	3.00	1.8	0.80	1.20	28.74	5.24	11.33	4.70	50.00%			
P1436 Green	Spray Coating	7.80	61.72%	0.00%	61.72%	0.00%	24.96%	0.500	3.00	4.8	4.81	7.22	173.31	31.63	9.81	38.58	50.00%			
F77B551 Black	Spray Coating	8.57	63.90%	53.50%	10.40%	55.00%	33.40%	0.500	3.00	2.0	0.89	1.34	32.09	5.86	10.16	5.34	50.00%			
Transmission, Converter, Axle Housing, Differential Paint Booth																				
L1964 Copper	Spray Coating	7.25	83.36%	0.00%	83.36%	0.00%	12.48%	0.040	2.00	6.0	6.04	0.48	11.60	2.12	0.21	96.85	50.00%			
P1113 Primer	Spray Coating	8.62	53.52%	0.00%	53.52%	0.00%	28.08%	0.040	2.00	4.6	4.61	0.37	8.86	1.62	0.70	32.86	50.00%			
P1350 Blue	Spray Coating	7.74	61.52%	0.00%	61.52%	0.00%	25.84%	0.040	2.00	4.8	4.76	0.38	9.14	1.67	0.52	36.85	50.00%			
F77AC503 Gray	Spray Coating	8.87	61.10%	52.10%	9.00%	55.50%	34.00%	0.040	2.00	1.8	0.80	0.06	1.53	0.28	0.60	4.70	50.00%			
P1434 Aluminum	Spray Coating	7.43	65.64%	0.00%	65.64%	0.00%	24.16%	0.040	2.00	4.9	4.88	0.39	9.36	1.71	0.45	40.37	50.00%			
P1436 Green	Spray Coating	7.80	61.72%	0.00%	61.72%	0.00%	31.20%	0.040	2.00	4.8	4.81	0.39	9.24	1.69	0.52	30.86	50.00%			
F77B551 Black	Spray Coating	8.57	63.90%	53.50%	10.40%	55.00%	33.40%	0.040	2.00	2.0	0.89	0.07	1.71	0.31	0.54	5.34	50.00%			
PTB-007																				
E77AC503	Spray Coating	8.86	61.40%	52.50%	8.90%	55.80%	33.80%	0.010	30.00	1.8	0.79	0.24	5.68	1.04	2.25	4.67	50.00%			
PTB012																				
F77B551 Black	Spray Coating	8.57	63.90%	53.50%	10.40%	55.00%	33.40%	0.400	4.00	2.0	0.89	1.43	34.23	6.25	10.84	5.34	50.00%			
Thinner for Cleaning																				
T260 Thinner	Cleaning	6.54	100.00%	0.00%	100.00%	0.00%	0.00%	0.20 Gal/hr		6.5	6.54	1.31	31.39	5.73	0.00		100.00%			
Total Uncontrolled Potential Emissions:												13.48	323.50	59.04	35.30					
Potential Emissions (controlled):																				
Total Controlled Potential Emissions:												Control Efficiency:		Controlled VOC lbs per Hour	Controlled VOC lbs per Day	Controlled VOC tons per Year	Controlled PM tons/yr			
												VOC	PM							
												0.00%	85.00%	13.48	323.50	59.04	5.29			

Methodology:

Pounds of VOC per Gallon Coating less Water = (Density (lb/gal) * Weight % Organics) / (1-Volume % water)
 Pounds of VOC per Gallon Coating = (Density (lb/gal) * Weight % Organics)
 Potential VOC Pounds per Hour = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr)
 Potential VOC Pounds per Day = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr) * (24 hr/day)
 Potential VOC Tons per Year = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr) * (8760 hrs/yr) * (1 ton/2000 lbs)
 Particulate Potential Tons per Year = (units/hour) * (gal/unit) * (lbs/gal) * (1-Weight % Volatiles) * (1-Transfer efficiency) * (8760 hrs/yr) * (1 ton/2000 lbs)
 Pounds VOC per Gallon of Solids = (Density (lbs/gal) * Weight % organics) / (Volume % solids) * Transfer Efficiency
 Coating usages are mutually exclusive for each coating booth. Therefore, Total = Worst Coating + Sum of all solvents used
 Controlled emission rate = uncontrolled emission rate * (1 - control efficiency)

Appendix A: Emission Calculations
HAP Emissions From Surface Coating Operations

Company Name: Jasper Engine Exchange
 Plant Location: 815 Wernsing Rd, Jasper, IN 47547
 Significant Source Modification No.: 037-31873-00089
 Significant Permit Modification No.: 037-31937-00089
 Reviewer: Kristen Willoughby
 Date: May 23, 2012

Material	Density (Lb/Gal)	Gal of Mat (gal/unit)	Maximum (unit/hour)	Weight % Xylene	Weight % Toluene	Weight % Cobalt	Weight % Methylene Chloride	Weight % Ethylene Glycol	Weight % Glycol Ethers	Xylene (ton/yr)	Toluene (ton/yr)	Cobalt (ton/yr)	Methylene Chloride (ton/yr)	Ethylene Glycol (ton/yr)	Glycol Ethers (ton/yr)	Total
Engine Paint Booth																
P1432 Gray	7.45	0.040	30.00	0.00%	9.88%	0.00%	0.00%	0.47%	0.00%	0.00	3.87	0.00	0.00	0.18	0.00	4.05
P1438 Black	7.35	0.040	30.00	8.19%	12.17%	0.00%	0.00%	0.00%	0.00%	3.16	4.70	0.00	0.00	0.00	0.00	7.87
VM & P Naphatha	6.20	0.060	30.00	0.00%	1.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.49	0.00	0.00	0.00	0.00	0.49
Stern Drive Paint Booth																
Yellow Primer	9.03	0.040	3.00	5.18%	8.97%	0.00%	0.00%	0.00%	0.00%	0.25	0.43	0.00	0.00	0.00	0.00	0.67
Gray Primer	10.16	0.040	3.00	10.39%	5.00%	0.00%	0.00%	0.00%	0.00%	0.55	0.27	0.00	0.00	0.00	0.00	0.82
Black Enamel	7.82	0.040	3.00	31.57%	1.64%	0.00%	0.00%	0.00%	0.00%	1.30	0.07	0.00	0.00	0.00	0.00	1.37
Dark Grey	7.85	0.040	3.00	34.54%	10.44%	0.00%	0.00%	0.00%	0.00%	1.42	0.43	0.00	0.00	0.00	0.00	1.86
Oyster White	9.40	0.040	3.00	28.15%	7.75%	0.00%	0.00%	0.00%	0.00%	1.39	0.38	0.00	0.00	0.00	0.00	1.77
Radiators Paint Booth																
P1439 Black	8.93	0.100	10.00	0.00%	10.70%	0.00%	0.00%	2.60%	0.00%	0.00	4.19	0.00	0.00	1.02	0.00	5.20
Diesel Engine Paint Booth																
P1043 Tan	7.49	0.500	3.00	0.00%	7.49%	0.00%	0.00%	0.47%	0.00%	0.00	3.69	0.00	0.00	0.23	0.00	3.92
P1350 Blue	7.74	0.500	3.00	0.00%	9.20%	0.00%	0.00%	0.47%	0.00%	0.00	4.68	0.00	0.00	0.24	0.00	4.92
P1352 Lt Green	7.60	0.500	3.00	0.00%	8.88%	0.08%	0.08%	0.47%	0.00%	0.00	4.44	0.04	0.04	0.23	0.00	4.75
P1398 Red	7.76	0.500	3.00	0.00%	17.59%	0.08%	0.08%	0.47%	0.00%	0.00	8.97	0.04	0.04	0.24	0.00	9.29
P1421 Yellow	8.36	0.500	3.00	29.59%	4.03%	0.00%	0.00%	0.47%	0.00%	16.25	2.21	0.00	0.00	0.26	0.00	18.72
P1432 Grey	7.45	0.500	3.00	0.00%	9.88%	0.08%	0.08%	0.47%	0.00%	0.00	4.84	0.04	0.04	0.23	0.00	5.14
P 1436 LF Green	7.80	0.500	3.00	0.00%	9.20%	0.00%	0.00%	0.47%	0.00%	0.00	4.71	0.00	0.00	0.24	0.00	4.95
P1438 Black	7.35	0.500	3.00	8.19%	12.17%	0.08%	0.08%	0.00%	0.00%	3.95	5.88	0.04	0.04	0.00	0.00	9.91
Transmission, Converter, Axle Housing, Differential Paint Booth																
L1964	7.25	0.040	2.00	0.00%	32.27%	0.00%	0.00%	0.47%	0.00%	0.00	0.82	0.00	0.00	0.01	0.00	0.83
P1113 Primer	8.62	0.040	2.00	0.00%	7.65%	0.00%	0.00%	0.47%	0.00%	0.00	0.23	0.00	0.00	0.01	0.00	0.25
P1350 Blue	7.74	0.040	2.00	0.00%	9.20%	0.00%	0.00%	0.47%	0.00%	0.00	0.25	0.00	0.00	0.01	0.00	0.26
P1432 Grey	7.45	0.040	2.00	0.00%	9.88%	0.00%	0.00%	0.47%	0.00%	0.00	0.26	0.00	0.00	0.01	0.00	0.27
P1434 Aluminum	7.43	0.040	2.00	0.00%	9.46%	0.08%	0.08%	0.47%	0.00%	0.00	0.25	0.00	0.00	0.01	0.00	0.26
P 1436 LF Green	7.80	0.040	2.00	0.00%	9.20%	0.00%	0.00%	0.47%	0.00%	0.00	0.25	0.00	0.00	0.01	0.00	0.26
P1438 Black	7.35	0.040	2.00	8.19%	12.17%	0.00%	0.00%	0.00%	0.00%	0.21	0.31	0.00	0.00	0.00	0.00	0.52
PTB012																
B42W111	9.80	0.400	4.00	0.00%	0.00%	0.00%	0.00%	3.00%	5.00%	0.00	0.00	0.00	0.00	2.06	3.43	5.49
Thinner for Cleaning																
T260 Thinner	6.54	0.200 Gal/hr		0.00%	37.00%	0.00%	0.00%	0.00%	0.00%	0.00	2.12	0.00	0.00	0.00	0.00	2.12
Degreasing Operation in Transmission Dept.																
Formula 555	9.91	0.200 Gal/hr		0.00%	0.00%	0.00%	0.00%	72.00%	0.00%	0.00	0.00	0.00	0.00	6.25	0.00	6.25
Total Potential Emissions										21.05	21.71	0.04	0.04	9.78	3.43	56.07

METHODOLOGY

- (a) Material usages in each paint booth are mutually exclusive.
- (b) HAPS emission rate (tons/yr) = Density (lb/gal) * Gal of Material (gal/unit) * Maximum (unit/hr) * Weight % HAP * 8760 hrs/yr * 1 ton/2000 lbs

**Appendix A: Emission Calculations
HAP Emissions From Surface Coating Operations**

Company Name: Jasper Engine Exchange
Plant Location: 815 Wernsing Rd, Jasper, IN 47547
Significant Source Modification No.: 037-31873-00089
Significant Permit Modification No.: 037-31937-00089
Reviewer: Kristen Willoughby
Date: May 23, 2012

Material	Density (Lb/Gal)	Gal of Mat (gal/unit)	Maximum (unit/hour)	Weight % Xylene	Weight % Toluene	Weight % Cobalt	Weight % Methylene Chloride	Weight % Ethylene Glycol	Weight % Glycol Ethers	Xylene (ton/yr)	Toluene (ton/yr)	Cobalt (ton/yr)	Methylene Chloride (ton/yr)	Ethylene Glycol (ton/yr)	Glycol Ethers (ton/yr)	Total
Engine Paint Booth																
F77AC503 Gray	8.87	0.040	30.00	0.00%	0.00%	0.00%	0.00%	0.00%	2.00%	0.00	0.00	0.00	0.00	0.00	0.93	0.00
F77B551 Black	8.57	0.040	30.00	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00
L-1770	11.29	0.060	30.00	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stern Drive Paint Booth																
Yellow Primer	9.03	0.040	3.00	5.18%	8.97%	0.00%	0.00%	0.00%	0.00%	0.25	0.43	0.00	0.00	0.00	0.00	0.67
Gray Primer	10.16	0.040	3.00	10.39%	5.00%	0.00%	0.00%	0.00%	0.00%	0.55	0.27	0.00	0.00	0.00	0.00	0.82
Black Enamel	7.82	0.040	3.00	31.57%	1.64%	0.00%	0.00%	0.00%	0.00%	1.30	0.07	0.00	0.00	0.00	0.00	1.37
Dark Grey	7.85	0.040	3.00	34.54%	10.44%	0.00%	0.00%	0.00%	0.00%	1.42	0.43	0.00	0.00	0.00	0.00	1.86
Oyster White	9.40	0.040	3.00	28.15%	7.75%	0.00%	0.00%	0.00%	0.00%	1.39	0.38	0.00	0.00	0.00	0.00	1.77
Radiators Paint Booth																
F77B551 Black	8.57	0.100	10.00	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Diesel Engine Paint Booth																
P1043 Tan	7.49	0.500	3.00	0.00%	7.49%	0.00%	0.00%	0.47%	0.00%	0.00	3.69	0.00	0.00	0.23	0.00	3.92
P1350 Blue	7.74	0.500	3.00	0.00%	9.20%	0.00%	0.00%	0.47%	0.00%	0.00	4.68	0.00	0.00	0.24	0.00	4.92
P1352 Lt Green	7.60	0.500	3.00	0.00%	8.88%	0.08%	0.08%	0.47%	0.00%	0.00	4.44	0.04	0.04	0.23	0.00	4.75
P1398 Red	7.76	0.500	3.00	0.00%	17.59%	0.08%	0.08%	0.47%	0.00%	0.00	8.97	0.04	0.04	0.24	0.00	9.29
P1421 Yellow	8.36	0.500	3.00	29.59%	4.03%	0.00%	0.00%	0.47%	0.00%	16.25	2.21	0.00	0.00	0.26	0.00	18.72
F77AC503 Gray	8.87	0.500	3.00	0.00%	0.00%	0.00%	0.00%	0.00%	2.00%	0.00	0.00	0.00	0.00	0.00	1.17	0.00
P 1436 LF Green	7.80	0.500	3.00	0.00%	9.20%	0.00%	0.00%	0.47%	0.00%	0.00	4.71	0.00	0.00	0.24	0.00	4.95
F77B551 Black	8.57	0.500	3.00	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Transmission, Converter, Axle Housing, Differential Paint Booth																
L1964	7.25	0.040	2.00	0.00%	32.27%	0.00%	0.00%	0.47%	0.00%	0.00	0.82	0.00	0.00	0.01	0.00	0.83
P1113 Primer	8.62	0.040	2.00	0.00%	7.65%	0.00%	0.00%	0.47%	0.00%	0.00	0.23	0.00	0.00	0.01	0.00	0.25
P1350 Blue	7.74	0.040	2.00	0.00%	9.20%	0.00%	0.00%	0.47%	0.00%	0.00	0.25	0.00	0.00	0.01	0.00	0.26
F77AC503 Gray	8.87	0.040	2.00	0.00%	0.00%	0.00%	0.00%	0.00%	2.00%	0.00	0.00	0.00	0.00	0.00	0.06	0.00
P1434 Aluminum	7.43	0.040	2.00	0.00%	9.46%	0.08%	0.08%	0.47%	0.00%	0.00	0.25	0.00	0.00	0.01	0.00	0.26
P 1436 LF Green	7.80	0.040	2.00	0.00%	9.20%	0.00%	0.00%	0.47%	0.00%	0.00	0.25	0.00	0.00	0.01	0.00	0.26
F77B551 Black	8.57	0.040	2.00	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PTB012																
F77B551 Black	8.57	0.400	4.00	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Thinner for Cleaning																
T260 Thinner	6.54	0.200 Gal/hr		0.00%	37.00%	0.00%	0.00%	0.00%	0.00%	0.00	2.12	0.00	0.00	0.00	0.00	2.12
Total Potential Emissions										17.68	12.34	0.04	0.04	0.27	2.16	32.54

METHODOLOGY

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

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

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

**Company Name: Jasper Engine Exchange, Inc.
Address City IN Zip: 815 Wernsing Road, Jasper, IN 47547
Significant Source Modification No.: 037-31873-00089
Significant Permit Modification No.: 037-31937-00089
Reviewer: Kristen Willoughby
Date: May 23, 2012**

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

Methodology:

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

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

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

Company Name: Jasper Engine Exchange, Inc
Address City In Zip: 815 Wernsing Road, Jasper, IN 47547
Significant Source Modification No.: 037-31873-00089
Significant Permit Modification No.: 037-31937-00089
Reviewer: Kristen Willoughby
Date: May 23, 2012

Potential Emissions (uncontrolled)														
Material (as applied)	Type	Net Weight per Can (lb/can)	Maximum Usage (cans/yr)	Trichloroethylene Weight % tons/yr	MIBK Weight % tons/yr	Lead Weight % tons/yr	Methylene chl Weight % tons/yr	Toluene Weight % tons/yr	1,1,1 Trichloroethylene Weight % tons/yr	Xylene Weight % tons/yr	Ethyl Benzene Weight % tons/yr	Hexane Weight % tons/yr	Glycol Ethers Weight % tons/yr	Total (tons/yr)
3M 90	Adhesive	1.031	622	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.0000
3M Super 77	Adhesive	1.031	1881	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	2.00%	0.00%	0.0194
711	Penetrating Oil	0.688	1214	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.0000
744	Penetrant Dye	0.563	396	0.00%	0.00%	0.00%	0.00%	7.00%	0.00%	0.00%	0.00%	0.00%	15.00%	0.0000
745	Developer	0.563	492	0.00%	0.00%	0.00%	0.00%	0.00%	62.00%	0.00%	0.00%	0.00%	0.00%	0.0000
BBQ Black 150	Paint	0.688	35	0.00%	0.00%	0.00%	0.00%	10.00%	0.00%	3.00%	0.00%	0.00%	0.00%	0.0000
Cast Blast	Paint	0.750	632	0.00%	0.00%	0.00%	0.00%	43.20%	0.00%	6.33%	1.58%	0.00%	0.00%	0.0000
Crest	Leak Trace	1.000	350	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	39.00%	0.00%	0.0000
Crown 6090N PR.Blue	Blue Marking Fluid	0.313	10	70.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.0000
DGF K5200K	Graphite Spray	0.563	3154	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.0000
Dykem Steel Blue	Layout Fluid	1.000	12	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.0000
Engine Enamel C 1	Paint Column 1	0.688	6301	0.00%	5.00%	0.00%	0.00%	0.00%	0.00%	10.00%	0.00%	0.00%	0.00%	0.0000
Engine Enamel C 2	Paint Column 2	0.688	548	0.00%	5.00%	3.00%	0.00%	0.00%	0.00%	10.00%	0.00%	0.00%	0.00%	0.0000
Engine Enamel C 3	Paint Column 3	0.688	1247	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	38.00%	0.00%	0.00%	0.00%	0.0000
LAS 16	Welding Anti Spat	0.750	323	0.00%	0.00%	0.00%	84.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.0000
Locquic Primer T	Loctite Primer	0.375	119	0.00%	0.00%	0.00%	0.00%	0.00%	90.00%	0.00%	0.00%	0.00%	0.00%	0.0000
LPS 2	Penetrating Oil	0.688	3485	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.0000
MF-10RI	Paint, Red Insulator	0.938	576	0.00%	0.00%	0.00%	0.00%	5.00%	0.00%	20.00%	0.00%	0.00%	0.00%	0.0000
MF-11 CC	Contact Cleaner	1.000	515	0.00%	0.00%	0.00%	0.00%	0.00%	95.00%	0.00%	0.00%	0.00%	0.00%	0.0000
Muscle AC-C	Carburetor Cleaner	0.953	2463	0.00%	4.00%	0.00%	0.00%	37.00%	0.00%	16.00%	4.00%	0.00%	0.00%	0.0000
OMC Charcoal	Paint	1.000	12	0.00%	0.00%	0.00%	19.27%	23.62%	0.00%	0.38%	0.00%	0.00%	1.23%	0.0000
Pioneer Copper	Gasket Cement 4000	0.563	296	0.00%	0.00%	0.00%	12.00%	1.00%	0.00%	0.00%	0.00%	2.00%	0.00%	0.0000
Super Enamel Red Oxide Primer	Paint T-19	0.688	254	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	40.00%	0.00%	0.00%	0.00%	0.0000
Tractor Colors	Paint	0.688	346	0.00%	5.00%	0.00%	0.00%	0.00%	0.00%	10.00%	0.00%	0.00%	0.00%	0.0000
Total Potential Emissions:				0.0011	0.1765	0.0056	0.1128	0.5535	0.3504	0.7141	0.0507	0.0892	0.0209	2.0749

Methodology:

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

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

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

Company Name: Jasper Engine Exchange, Inc.
Address City IN Zip: 815 Wernsing Road, Jasper, IN 47547
Significant Source Modification No.: 037-31873-00089
Significant Permit Modification No.: 037-31937-00089
Reviewer: Kristen Willoughby
Date: May 23, 2012

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

I. Non-aerosol Cleaning and Maching Operations:

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

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

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

Glycol Ethers

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

Methylene Chloride

Actual	22.5 lb/yr	
Potential	$22.5 \text{ lb/yr} / (19 * 247 \text{ hr/yr}) * 8760 \text{ hr/yr} * (1/2000) \text{ lb/ton}$	= 0.021 ton/yr

II. GPL Final Wash Usages:

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

$$\begin{aligned} \text{Potential VOC emissions} &= 0.4909 \text{ lb VOC/gal} * 6660 \text{ gal/yr} / (16.25 * 247 \text{ hr/yr}) * 8760 \text{ hr/yr} * 1/2000 \text{ lb/ton} \\ &= 3.57 \text{ ton/yr} \\ \text{Potential HAP (glycol ether) emissions} &= 0.236 \text{ lb VOC/gal} * 6660 \text{ gal/yr} / (16.25 * 247 \text{ hr/yr}) * 8760 \text{ hr/yr} * 1/2000 \text{ lb/ton} \\ &= 1.72 \text{ ton/yr} \end{aligned}$$

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

Company Name: Jasper Engine Exchange, Inc.
Address City IN Zip: 815 Wernsing Road, Jasper, IN 47547
Significant Source Modification No.: 037-31873-00089
Significant Permit Modification No.: 037-31937-00089
Reviewer: Kristen Willoughby
Date: May 23, 2012

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

I. Non-aerosol Cleaning and Maching Operations:

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

$$\begin{aligned} \text{Potential VOC emissions} &= 3173 \text{ lb actual usage/yr} / (19 * 247 \text{ hr/yr}) * 8760 \text{ hr/yr} * (1/2000) \text{ ton/lb} \\ &= 2.96 \text{ ton/yr} \qquad \qquad \qquad \text{or} = \qquad \qquad \qquad 16.23 \text{ lb/day} \end{aligned}$$

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

Glycol Ethers

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

Methylene Chloride

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

II. GP NR Final Wash Usages:

6660 gallons of GP NR Final Wash were consumed for 16.25 hr/day and 247 day/yr. The material contains 5.8% VOC per gallon and 3% HAP (glycol ether) per gallon.

$$\begin{aligned} \text{Potential VOC emissions} &= (1.08 \text{ lb/gal} * 5.8 \%) * (6660 \text{ gal/yr} / (16.25 \text{ hr/day} * 247 \text{ day/yr})) * 8760 \text{ hr/yr} * 1/2000 \text{ lb/ton} \\ &= 0.46 \text{ ton/yr} \qquad \qquad \qquad \text{or} = \qquad \qquad \qquad 2.49 \text{ lb/day} \end{aligned}$$

$$\begin{aligned} \text{Potential HAP (glycol ether) emissions} &= (1.08 \text{ lb/gal} * 3\%) * (6660 \text{ gal/yr} / (16.25 \text{ hr/day} * 247 \text{ day/yr})) * 8760 \text{ hr/yr} * 1/2000 \text{ lb/ton} \\ &= 0.22 \text{ ton/yr} \end{aligned}$$

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

Company Name: Jasper Engine Exchange, Inc.
Address City IN Zip: 815 Wernsing Road, Jasper, IN 47547
Significant Source Modification No.: 037-31873-0089
Significant Permit Modification No.: 037-31937-0089
Reviewer: Kristen Willoughby
Date: May 23, 2012

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

Methodology:

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

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

Company Name: Jasper Engine Exchange, Inc.
Address City IN Zip: 815 Wernsing Road, Jasper, IN 47547
Significant Source Modification No.: 037-31873-00089
Significant Permit Modification No.: 037-31937-00089
Reviewer: Kristen Willoughby
Date: May 23, 2012

State Potential Emissions (uncontrolled):									
Material	Process	Date Unit Installed	Density (Lb/Gal)	Weight % Volatile (H2O& Organics)	Weight % Water	Weight % Organics	Maximum Usage (gal/day)	Potential VOC pounds per day	Potential VOC tons per year
Units in Existence before 10/7/74									
Mineral Sprit	Service Area (D269)	1967	6.59	100.00%	0.00%	100.00%	1.0	6.59	1.20
Mineral Sprit	Gas Hed, Skid, Pan Revomal	1967	6.59	100.00%	0.00%	100.00%	0.5	3.30	0.60
Mineral Sprit	Trans Prep-Sanding Stations	1970	6.59	100.00%	0.00%	100.00%	0.5	3.30	0.60
Mineral Sprit	Gas & Transmission Warranty (G262)	1970	6.59	100.00%	0.00%	100.00%	0.5	3.30	0.60
Mineral Sprit	Transmission Builders-24 Pans	1970	6.59	100.00%	0.00%	100.00%	2.0	13.18	2.41
Mineral Sprit	Diesel Fuel Room (D266)	1970	6.59	100.00%	0.00%	100.00%	2.0	13.18	2.41
Mineral Sprit	Diesel Fuel Room (D267)	1970	6.59	100.00%	0.00%	100.00%	2.0	13.18	2.41
Mineral Sprit	Diesel Teardown Soak Tank (D261)	1970	6.59	100.00%	0.00%	100.00%	1.5	9.89	1.80
Mineral Sprit	Diesel Wash	1970	6.59	100.00%	0.00%	100.00%	5.0	32.95	6.01
Mineral Sprit	Diesel Assembly (D263)	1970	6.59	100.00%	0.00%	100.00%	1.0	6.59	1.20
Mineral Sprit	Diesel Dyno	1970	6.59	100.00%	0.00%	100.00%	1.0	6.59	1.20
	Subtotal								20.45
Units in Existence after 10/7/74 and before 1/1/80									
Mineral Sprit	Oil Pump Rinse (G260)	1975	6.59	100.00%	0.00%	100.00%	0.5	3.30	0.60
Mineral Sprit	Gas Skid Wash	1975	6.59	100.00%	0.00%	100.00%	12.0	79.08	14.43
Mineral Sprit	Diesel Sanding Station	1975	6.59	100.00%	0.00%	100.00%	0.5	3.30	0.60
Mineral Sprit	Tool & Die Soak Tank (T262-CLT069)	1975	6.59	100.00%	0.00%	100.00%	0.5	3.30	0.60
Mineral Sprit	Transmission Case Rinse-Teardown (T261)	1975	6.59	100.00%	0.00%	100.00%	5.0	32.95	6.01
Mineral Sprit	Transmission Rinse-Valve Body (T262-CLT072)	1975	6.59	100.00%	0.00%	100.00%	10.0	65.90	12.03
Mineral Sprit	Transmission Prep Area NW (T265)	1976	6.59	100.00%	0.00%	100.00%	2.0	13.18	2.41
Mineral Sprit	Transmission Prep Area NE (T266)	1976	6.59	100.00%	0.00%	100.00%	2.0	13.18	2.41
	Subtotal								39.09
Units in Existence after 1/1/80 and before 7/1/90									
Mineral Sprit	Transmission Prep Area SW (T267)	1984	6.59	100.00%	0.00%	100.00%	2.0	13.18	2.41
Mineral Sprit	Alum Head Parts Rinse (G265)	1984	6.59	100.00%	0.00%	100.00%	0.5	3.30	0.60
Mineral Sprit	Oil Pump/Timing Cover Rinse (G263)	1984	6.59	100.00%	0.00%	100.00%	1.0	6.59	1.20
Mineral Sprit	High Performance #1 (G272)	1985	6.59	100.00%	0.00%	100.00%	0.5	3.30	0.60
Mineral Sprit	Aluminum Head Flush (G270)	1985	6.59	100.00%	0.00%	100.00%	2.0	13.18	2.41
Mineral Sprit	Diesel Assembly (D268)	1987	6.59	100.00%	0.00%	100.00%	1.0	6.59	1.20
Mineral Sprit	Oil Cooler Flush (D270)	1988	6.59	100.00%	0.00%	100.00%	0.5	3.30	0.60
Mineral Sprit	Diesel Assembly (D265)	1988	6.59	100.00%	0.00%	100.00%	1.0	6.59	1.20
	Subtotal								10.22
Unit in Existence after 7/1/90									
Mineral Sprit	Diesel Assembly-Filter Base (D271)	1992	6.59	100.00%	0.00%	100.00%	2.0	13.18	2.41
Mineral Sprit	Diesel Assembly (D264)	1992	6.59	100.00%	0.00%	100.00%	1.0	6.59	1.20
Mineral Sprit	Cam Rinse (G266)	1992	6.59	100.00%	0.00%	100.00%	0.5	3.30	0.60
Mineral Sprit	Lifter Rinse (T261)	1992	6.59	100.00%	0.00%	100.00%	2.0	13.18	2.41
Mineral Sprit	Torque Converter Rinse Table (T264)	1994	6.59	100.00%	0.00%	100.00%	2.0	13.18	2.41
Mineral Sprit	Transmission Rinse Table - H.D. (T263)	1994	6.59	100.00%	0.00%	100.00%	5.0	32.95	6.01
Mineral Sprit	High Performance #2 (G273)	1994	6.59	100.00%	0.00%	100.00%	0.5	3.30	0.60
Mineral Sprit	High Performance #3 (G274)	1994	6.59	100.00%	0.00%	100.00%	0.5	3.30	0.60
Mineral Sprit	Quality Control (G271)	1994	6.59	100.00%	0.00%	100.00%	0.5	3.30	0.60
Mineral Sprit	Diesel Warranty Disassembly (D262)	1995	6.59	100.00%	0.00%	100.00%	1.5	9.89	1.80
Mineral Sprit	Gas Bold Sorting Area (G264)	1995	6.59	100.00%	0.00%	100.00%	0.5	3.30	0.60
Mineral Sprit	Gas Head (G276)	1996	6.59	100.00%	0.00%	100.00%	0.0	0.00	0.00
Mineral Sprit	Transmission Prep Area SE (T268)	1996	6.59	100.00%	0.00%	100.00%	2.0	13.18	2.41
	Subtotal								21.65
Total Potential Emissions:									91.40

Methodology:

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

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

Company Name: Jasper Engine Exchange, Inc.
 Address City IN Zip: 815 Wernsing Road, Jasper, IN 47547
 Significant Source Modification No.: 037-31873-00089
 Significant Permit Modification No.: 037-31937-00089
 Reviewer: Kristen Willoughby
 Date: May 23, 2012

Potential Emissions (uncontrolled):																		
Source Type	No. of Equip.	Total Capacity (mmBtu/hr)	Fuel Usage (mmcf/yr) or (1000 gal/yr)	Emission Factors (lb/unit) (a)								Potential Emissions (ton/yr)						
				PM	PM10	PM2.5	SO2	NOx	VOC	CO	PM	PM10	PM2.5	SO2	NOx	VOC	CO	
Non-Engine Units																		
Nat. Gas Fired Heaters (<0.3 mmBtu/hr) (b)	109	10.37	90.8	1.9	7.6	7.6	0.6	100.0	5.5	84.0	0.09	0.35	0.35	0.03	4.54	0.25	3.82	
Nat. Gas Fired Heaters (>0.3 & < 10 mmBtu/hr) (c)	24	19.44	170.3	1.9	7.6	7.6	0.6	100.0	5.5	84.0	0.16	0.65	0.65	0.05	8.51	0.47	7.15	
Waste Oil Fired Heaters (d)	2	0.40	11.7	2.8	2.8	2.8	3.0	11.0	1.0	1.7	0.02	0.02	0.02	0.02	0.06	0.01	0.01	
Nat. Gas Fired Boiler (c)	1	4.50	39.4	1.9	7.6	7.6	0.6	100.0	5.5	84.0	0.04	0.15	0.15	0.01	1.97	0.11	1.66	
Engines (unlimited)																		
IC Engines - Nat. Gas Fired (e)	21	11.79	103.3	10.0	10.0	10.0	0.6	3400.0	82.9	430.0	0.52	0.52	0.52	0.03	175.59	4.28	22.21	
IC Engines - Diesel Fuel Fired (f)	4	28.00	1777.4	0.31	0.31	0.31	0.29	4.41	0.36	0.95	38.02	38.02	38.02	35.57	540.84	44.15	116.51	
IC Engines - Gasoline Fired (g)	2	14.00	4772.5	0.10	0.10	0.10	0.08	1.63	3.03	62.70	6.13	6.13	6.13	5.15	99.95	185.80	3844.76	
Total Potential Emissions:											44.97	45.83	45.83	40.86	831.48	235.06	3996.11	
Engines (limited)																		
IC Engines - Nat. Gas Fired (e)	21	11.79	119.7	10.0	10.0	10.0	0.6	3400.0	82.9	430.0	0.60	0.60	0.60	0.04	203.49	4.96	25.736	
IC Engines - Diesel Fuel Fired (f)	4	28.00	50.0	0.31	0.31	0.31	0.29	4.41	0.36	0.95	1.07	1.07	1.07	1.00	15.21	1.24	3.278	
IC Engines - Gasoline Fired (g)	2	14.00	10.0	0.10	0.10	0.10	0.08	1.63	3.03	62.70	0.01	0.01	0.01	0.01	0.21	0.39	8.056	
Total Limited Emissions:											1.98	2.84	2.84	1.15	234.01	7.43	49.702	

Methodology:

- (a) Unit = mmcf for natural gas; 1000 gallons for waste oil; and mmBtu for IC Engines liquid fuel combustion
- (b) Emission Factors from AP-42, Chapter 1.4, No SCC
- (c) Emission Factors from AP-42, Chapter 1.4, SCC #1-03-006-03
- (d) Emission Factors from AP-42, Chapter 1.11, SCC #1-05-001-14 & #1-05-002-14; using a maximum ash content of 1% and a maximum sulfur content of 0.03%.
- (e) Emission Factors from AP-42, Chapter 3.3, SCC #2-02-001-02 & #2-03-001-01
- (f) Emission Factors from EPA 450/4-90-003, SCC #2-01-002-02
- (g) Emission Factors from AP-42, Chapter 3.3, SCC #2-02-003-02 & #2-03-003-01
- (h) The source will limit the IC Engine combustions to: (1) 10,000 gal/yr of gasoline; (2) 50,000 gal/yr of diesel fuel; and (3) 119.7 mmSCF/yr of natural gas.
 These limitations will limit source wide VOC, NOx and CO emissions to less than 250 tons/yr. Therefore, the requirements of PSD, 326 IAC 2-2, do not apply.

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

Company Name: Jasper Engine Exchange, Inc.
 Plant Location: 815 Wernsing Road, Jasper, IN 47547
 Significant Source Modification No.: 037-31873-00089
 Significant Permit Modification No.: 037-31937-00089
 Reviewer: Kristen Willoughby
 Date: May 23, 2012

Emission Factors												
Source Type	Total Capacity (mmBtu/HR)	Fuel Usage (mmcf/yr or 1000 gal/yr)	Emission Factors (lb/unit) (a)									
			Benzene	Ethylbenzene	Xylene	Toluene	Formaldehyde	Chromium	Nickel	Phosphorous	Total PAH	
Non-Engine Units												
Nat. Gas Fired Heaters (<0.3 mmBtu/hr)	10.37	90.8	0.00000	0.0000	0.0000	0.0022	0.0155	0.0000	0.0000	0.0000	0.0000	0.0000
Nat. Gas Fired Heaters (>0.3 & < 10 mmBtu/h)	19.44	170.3	0.00000	0.0000	0.0000	0.0022	0.0155	0.0000	0.0000	0.0000	0.0000	0.0000
Waste Oil Fired Heaters	0.40	11.7	0.00000	0.0000	0.0000	0.0000	0.0000	0.1900	0.0500	0.0360	0.0000	
Nat. Gas Fired Boiler	4.50	39.4	0.00000	0.0000	0.0000	0.0022	0.0155	0.0000	0.0000	0.0000	0.0000	0.0000
Engines												
IC Engines - Nat. Gas Fired (a)	11.79	159.1	0.00045	0.0002	0.0007	0.0005	0.3662	0.0000	0.0000	0.0000	0.0000	0.0000
IC Engines - Diesel Fuel Fired	35.00	2332.8	0.00000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0002	0.0000
IC Engines - Gasoline Fired	14.00	4772.5	0.00000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Uncontrolled Emissions												
Source Type	Total Capacity (mmBtu/HR)	Fuel Usage (mmcf/yr or 1000 gal/yr)	Potential Emissions (Uncontrolled)									
			Benzene (tons/yr)	Ethylbenzene (tons/yr)	Xylene (tons/yr)	Toluene (tons/yr)	Formaldehyde (tons/yr)	Chromium (tons/yr)	Nickel (tons/yr)	Phosphorous (tons/yr)	Total PAH (tons/yr)	Total
Non-Engine Units												
Nat. Gas Fired Heaters (<0.3 mmBtu/hr)	3.89	34.1	0.00000	0.00000	0.00000	0.00010	0.00070	0.00000	0.00000	0.00000	0.00000	0.00080
Nat. Gas Fired Heaters (>0.3 & < 10 mmBtu/h)	14.49	126.9	0.00000	0.00000	0.00000	0.00019	0.00132	0.00000	0.00000	0.00000	0.00000	0.00151
Waste Oil Fired Heaters	0.40	11.7	0.00000	0.00000	0.00000	0.00000	0.00000	0.00111	0.00029	0.00021	0.00000	0.00161
Nat. Gas Fired Boiler	8.50	74.5	0.00000	0.00000	0.00000	0.00004	0.00031	0.00000	0.00000	0.00000	0.00000	0.00035
Engines (unlimited)												
IC Engines - Nat. Gas Fired	11.79	103.3	0.00004	0.00002	0.00005	0.00004	0.02913	0.00000	0.00000	0.00000	0.00000	0.02928
IC Engines - Diesel Fuel Fired	35.00	2221.7	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	1.71657	1.71657
IC Engines - Gasoline Fired	14.00	4772.5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Total Potential Emissions (unlimited)			0.00004	0.00002	0.00005	0.00037	0.03146	0.00111	0.00029	0.00021	1.71657	1.75012
Limited Emissions												
Engines (limited) (b)												
IC Engines - Nat. Gas Fired	11.79	119.7	0.00003	0.00001	0.00004	0.00003	0.02192	0.00000	0.00000	0.00000	0.00000	0.02203
IC Engines - Diesel Fuel Fired	36.75	50.0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.03679	0.03679
IC Engines - Gasoline Fired	14.00	10.0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Total Limited Emissions (c)			0.00003	0.00001	0.00004	0.00036	0.02425	0.00111	0.00029	0.00021	0.03679	0.06309

Methodology:
 (a) Unit = mmcf for natural gas; 1000 gallons for waste oil; and mmBtu for IC Engines liquid fuel combustion
 (b) The source will limit the IC Engine combustions to (1) 10,000 gal/yr gasoline; (2) 50,000 gal/yr of diesel fuel; and (3) 119.7 mmCF/yr of natural gas.
 (c) Total limited emissions include emissions from non-engine units.

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

Company Name: Jasper Engine Exchange, Inc.
Address City IN Zip: 815 Wernsing Road, Jasper, IN 47547
Significant Source Modification No.: 037-31873-00089
Significant Permit Modification No.: 037-31937-00089
Reviewer: Kristen Willoughby
Date: May 23, 2012

Potential Emissions (uncontrolled):

Source Type	No. of Equip.	Total Capacity (mmBtu/hr)	Fuel Usage (mmcf/yr) or (1000 gal/yr)	Emission Factors (lb/unit) (a)			Potential Emissions (ton/yr)		
				CO2	CH4	N2O	CO2	CH4	N2O
Non-Engine Units									
Nat. Gas Fired Heaters (<0.3 mmBtu/hr) (b)	109	10.37	90.8	120,000	2.3	2.2	5450.47	0.10	0.10
Nat. Gas Fired Heaters (>0.3 & < 10 mmBtu/hr) (c)	24	19.44	170.3	120,000	2.3	2.2	10217.66	0.20	0.19
Waste Oil Fired Heaters (d)	2	0.40	11.7	74.0	0.003	0.0006	8360.37	0.34	0.07
Nat. Gas Fired Boiler (c)	1	4.50	39.4	120,000	2.3	2.2	2365.20	0.05	0.04
Engines (unlimited)									
IC Engines - Nat. Gas Fired (e)	21	11.79	103.3	53.02	1.0E-03	1.0E-04	2.74	0.00	0.00
IC Engines - Diesel Fuel Fired (f)	4	28.00	1777.4	1.64E+02	6.61E-03	1.32E-03	2.30	9.25E-05	1.85E-05
IC Engines - Gasoline Fired (g)	2	14.00	4772.5	59.00	1.00E-03	6.00E-04	7976.05	0.14	0.08
Total Potential Emissions:							34374.79	0.82	0.48
Summed Potential Emissions in tons/yr							34,376		
CO2e Total in tons/yr							34,541		
Engines (limited)									
IC Engines - Nat. Gas Fired (e)	21	11.79	119.7	53.02	1.00E-03	1.00E-04	3.17	0.00	0.00
IC Engines - Diesel Fuel Fired (f)	4	28.00	50.0	1.64E+02	6.61E-03	1.32E-03	0.06	2.60E-06	5.20E-07
IC Engines - Gasoline Fired (g)	2	14.00	10.0	59.00	1.00E-03	6.00E-04	7.58	0.00	0.00
Total Limited Emissions:							26404.52	0.68	0.40
Summed Potential Emissions in tons/yr							26,406		
CO2e Total in tons/yr							26,542		

Methodology:

(a) Unit = mmcf for natural gas; 1000 gallons for waste oil; and mmBtu for IC Engines liquid fuel combustion
The N2O Emission Factor for uncontrolled is 2.2. The N2O Emission Factor for low Nox burner is 0.64
Emission Factors are from AP 42, Table 1.4-2 SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03.
Emission Factor Units for waste oil and IC Engines are in kg/mmBtu.
Global Warming Potentials (GWP) from Table A-1 of 40 CFR Part 98 Subpart A.
Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton

Emission Factors from Tables C-1 and 2 of 40 CFR Part 98 Subpart C. Waste oil is called Used oil in 40 CFR 98.
Potential Emission (tons/yr) = Heat Input Capacity mmBtu/hr x Emission Factor (kg/mmBtu) x 2.20462 lb/kg x 8760 hrs/yr /2,000 lb/ton
CO2e (tons/yr) = CO2 Potential Emission ton/yr x CO2 GWP (1) + CH4 Potential Emission ton/yr x CH4 GWP (21) + N2O Potential Emission ton/yr x N2O GWP (310).

Appendix A: Emissions Calculations
Natural Gas Combustion (Less than 100 MMBtu/hr) for Cleaning Furnaces

Company Name: Jasper Engine Exchange, Inc.
 Address City IN Zip: 815 Wernsing Road, Jasper, IN 47547
 Significant Source Modification No.: 037-31873-00089
 Significant Permit Modification No.: 037-31937-00089
 Reviewer: Kristen Willoughby
 Date: May 23, 2012

Emission Factor in lb/MMCF			Pollutant						
			PM*	PM10*	direct PM2.5	SO2	NOx	VOC	CO
			1.9	7.6	7.6	0.6	100.0	5.5	84.0
			**see below						
Emissions Unit	Heat Input Capacity (MMBtu/hr)	Potential Throughput (MMCF/yr)	Potential Emissions (tons/yr)						
OVE001	0.43	3.767	0.004	0.014	0.014	0.001	0.188	0.010	0.158
OVE002	0.43	3.767	0.004	0.014	0.014	0.001	0.188	0.010	0.158
OVE003	0.43	3.767	0.004	0.014	0.014	0.001	0.188	0.010	0.158
OVE004	0.43	3.767	0.004	0.014	0.014	0.001	0.188	0.010	0.158
OVE013	0.72	6.307	0.006	0.024	0.024	0.002	0.315	0.017	0.265
OVE014	0.43	3.767	0.004	0.014	0.014	0.001	0.188	0.010	0.158
OVE015	0.43	3.767	0.004	0.014	0.014	0.001	0.188	0.010	0.158
OVE016	0.72	6.307	0.006	0.024	0.024	0.002	0.315	0.017	0.265
Total			0.01	0.06	0.06	0.00	0.75	0.04	0.63

*PM emission factor is filterable PM only. PM10 emission factor is filterable and condensable PM10 combined.

PM2.5 emission factor is filterable and condensable PM2.5 combined.

**Emission Factors for NOx: Uncontrolled = 100, Low NOx Burner = 50, Low NOx Burners/Flue gas recirculation = 32

Emission Factor in lb/MMCF			HAPs - Organics				
			Benzene	Dichlorobenzene	Formaldehyde	Hexane	Toluene
			2.1E-03	1.2E-03	7.5E-02	1.8E+00	3.4E-03
Emissions Unit	Heat Input Capacity (MMBtu/hr)	Potential Throughput (MMCF/yr)	Potential Emissions (tons/yr)				
OVE001	0.43	3.767	4.0E-06	2.3E-06	1.4E-04	3.4E-03	6.4E-06
OVE002	0.43	3.767	4.0E-06	2.3E-06	1.4E-04	3.4E-03	6.4E-06
OVE003	0.43	3.767	4.0E-06	2.3E-06	1.4E-04	3.4E-03	6.4E-06
OVE004	0.43	3.767	4.0E-06	2.3E-06	1.4E-04	3.4E-03	6.4E-06
OVE013	0.72	6.307	6.6E-06	3.8E-06	2.4E-04	5.7E-03	1.1E-05
OVE014	0.43	3.767	4.0E-06	2.3E-06	1.4E-04	3.4E-03	6.4E-06
OVE015	0.43	3.767	4.0E-06	2.3E-06	1.4E-04	3.4E-03	6.4E-06
OVE016	0.72	6.307	6.6E-06	3.8E-06	2.4E-04	5.7E-03	1.1E-05
Total			3.7E-05	2.1E-05	1.3E-03	3.2E-02	6.0E-05

Emission Factor in lb/MMCF			HAPs - Metals					Total HAPs (Organics+Metals)
			Lead	Cadmium	Chromium	Manganese	Nickel	
			6.0E-04	1.1E-03	1.4E-03	3.8E-04	2.1E-03	
Emissions Unit	Heat Input Capacity (MMBtu/hr)	Potential Throughput (MMCF/yr)	Potential Emissions (tons/yr)					
OVE001	0.43	3.767	9.4E-07	2.1E-06	2.6E-06	7.2E-07	4.0E-06	3.6E-03
OVE002	0.43	3.767	9.4E-07	2.1E-06	2.6E-06	7.2E-07	4.0E-06	3.6E-03
OVE003	0.43	3.767	9.4E-07	2.1E-06	2.6E-06	7.2E-07	4.0E-06	3.6E-03
OVE004	0.43	3.767	9.4E-07	2.1E-06	2.6E-06	7.2E-07	4.0E-06	3.6E-03
OVE013	0.72	6.307	1.6E-06	3.5E-06	4.4E-06	1.2E-06	6.6E-06	6.0E-03
OVE014	0.43	3.767	9.4E-07	2.1E-06	2.6E-06	7.2E-07	4.0E-06	3.6E-03
OVE015	0.43	3.767	9.4E-07	2.1E-06	2.6E-06	7.2E-07	4.0E-06	3.6E-03
OVE016	0.72	6.307	1.6E-06	3.5E-06	4.4E-06	1.2E-06	6.6E-06	6.0E-03
Total	4.02	35.215	8.8E-06	8.3E-06	1.1E-05	2.9E-06	1.6E-05	3.3E-02

The five highest organic and metal HAPs emission factors are provided above. Additional HAPs emission factors are available in AP-42, Chapter 1.4.

Emission Factor in lb/MMCF			Pollutant		
			CO2	CH4	N2O
			120,000	2.3	2.2
Emissions Unit	Heat Input Capacity (MMBtu/hr)	Potential Throughput (MMCF/yr)	Potential Emissions (tons/yr)		
OVE001	0.43	3.767	226.008	0.004	0.004
OVE002	0.43	3.767	226.008	0.004	0.004
OVE003	0.43	3.767	226.008	0.004	0.004
OVE004	0.43	3.767	226.008	0.004	0.004
OVE013	0.72	6.307	378.432	0.007	0.007
OVE014	0.43	3.767	226.008	0.004	0.004
OVE015	0.43	3.767	226.008	0.004	0.004
OVE016	0.72	6.307	378.432	0.007	0.007
Total			904.03	0.02	0.02
Summed Potential Emissions in tons/yr			904.07		
CO2e Total in tons/yr			909.53		

Methodology

All emission factors are based on normal firing.
 MMBtu = 1,000,000 Btu
 MMCF = 1,000,000 Cubic Feet of Gas
 Heating Value of Natural Gas is assumed to be 1000 MMBTU/MMCF

Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) * 8,760 hrs/yr * 1 MMCF/1,000 MMBtu
 Emission Factors are from AP 42, Chapter 1.4, Tables 1.4-1, 1.4-2, 1.4-3, SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03 (Supplement D 3/98)
 Potential Emission (tons/yr) = Throughput (MMCF/yr) * Emission Factor (lb/MMCF) * (1 ton/2,000 lb)
 The N2O Emission Factor for uncontrolled is 2.2. The N2O Emission Factor for low NOx burner is 0.64.
 Emission Factors are from AP 42, Table 1.4-2 SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03.
 Global Warming Potentials (GWP) from Table A-1 of 40 CFR Part 98 Subpart A.
 Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton
 CO2e (tons/yr) = CO2 Potential Emission ton/yr x CO2 GWP (1) + CH4 Potential Emission ton/yr x CH4 GWP (21) + N2O Potential Emission ton/yr x N2O GWP (310).

**Appendix A: Emission Calculations
Cleaning Furnaces**

**Company Name: Jasper Engine Exchange, Inc.
Address City IN Zip: 815 Wernsing Road, Jasper, IN 47547
Significant Source Modification No.: 037-31873-00089
Significant Permit Modification No.: 037-31937-00089
Reviewer: Kristen Willoughby
Date: May 23, 2012**

Unit ID	Controlled PTE (lb/hr) as Provided by the Manufacturer							Controlled PTE (ton/year)							Uncontrolled PTE (tons/year)						
	PM	PM10	PM2.5	VOC	SO2	CO	NOx	PM	PM10	PM2.5	VOC	SO2	CO	NOx	PM	PM10	PM2.5	VOC	SO2	CO	NOx
OVE001	0.0133	0.0133	0.0133	0.0174	0.002	0.05	0.027	0.058	0.058	0.058	0.076	0.008	0.219	0.119	5.825	5.825	5.825	7.621	0.008	21.900	0.119
OVE002	0.0133	0.0133	0.0133	0.0174	0.002	0.05	0.027	0.058	0.058	0.058	0.076	0.008	0.219	0.119	5.825	5.825	5.825	7.621	0.008	21.900	0.119
OVE003	0.0133	0.0133	0.0133	0.0174	0.002	0.05	0.027	0.058	0.058	0.058	0.076	0.008	0.219	0.119	5.825	5.825	5.825	7.621	0.008	21.900	0.119
OVE004	0.0133	0.0133	0.0133	0.0174	0.002	0.05	0.027	0.058	0.058	0.058	0.076	0.008	0.219	0.119	5.825	5.825	5.825	7.621	0.008	21.900	0.119
OVE013	0.027	0.027	0.027	0.0348	0.004	0.1	0.054	0.118	0.118	0.118	0.152	0.016	0.438	0.237	11.826	11.826	11.826	15.242	0.016	43.800	0.237
OVE014	0.0133	0.0133	0.0133	0.0174	0.002	0.05	0.027	0.058	0.058	0.058	0.076	0.008	0.219	0.119	5.825	5.825	5.825	7.621	0.008	21.900	0.119
OVE015	0.0133	0.0133	0.0133	0.0174	0.002	0.05	0.027	0.058	0.058	0.058	0.076	0.008	0.219	0.119	5.825	5.825	5.825	7.621	0.008	21.900	0.119
OVE016	0.027	0.027	0.027	0.0348	0.004	0.1	0.054	0.118	0.118	0.118	0.152	0.016	0.438	0.237	11.826	11.826	11.826	15.242	0.016	43.800	0.237
Total	0.11	0.11	0.11	0.14	0.01	0.40	0.22	0.47	0.47	0.47	0.61	0.06	1.75	0.95	46.78	46.78	46.78	60.97	0.06	175.20	0.95

Methodology

- Controlled PTE (lb/hr) = Average controlled emissions exiting the furnace as provided by the manufacturer based on laboratory testing
- PM10 and PM2.5 are assumed to equal PM
- Controlled PTE (ton/year) = Controlled PTE (lb/hr) * (8760 hr/yr) * (1 ton / 2000 lb)
- Uncontrolled PTE (ton/year) = Controlled PTE (ton/year) / (1 - Assumed Control Efficiency)
- Assumed Control Efficiency (conservative) = 99% control for PM, PM10, PM2.5, VOC, and CO

Allowable Emissions Pursuant to 326 IAC 6.5-1-2

Unit ID	Unit	Flowrate (acfm)	326 IAC 6.5-1-2 Allowable PM
OVE001	Cleaning Furnace	650	0.167
OVE002	Cleaning Furnace	650	0.167
OVE003	Cleaning Furnace	650	0.167
OVE004	Cleaning Furnace	650	0.167
OVE013	Cleaning Furnace	650	0.167
OVE014	Cleaning Furnace	650	0.167
OVE015	Cleaning Furnace	650	0.167
OVE016	Cleaning Furnace	428	1.101

Methodology

326 IAC 6.5-1-2 Allowable PM (lb/hr) = (0.03 gr/dscf) * Flowrate (acfm) * (60 min/hr) * (1 lb/7000 gr)

Appendix A: Emission Calculations
Reciprocating Internal Combustion Engines - Diesel Fuel
Emergency Generator (UPS-027)

Company Name: Jasper Engine Exchange, Inc.
Address City IN Zip: 815 Wernsing Road, Jasper, IN 47547
Significant Source Modification No.: 037-31873-00089
Significant Permit Modification No.: 037-31937-00089
Reviewer: Kristen Willoughby
Date: May 23, 2012

Emissions calculated based on output rating (hp)

Output Horsepower Rating (hp)	227.0
Maximum Hours Operated per Year	500
Potential Throughput (hp-hr/yr)	113,500

	Pollutant						
	PM*	PM10*	direct PM2.5*	SO2	NOx	VOC	CO
Emission Factor in lb/hp-hr	0.0022	0.0022	0.0022	0.0021	0.0310	0.0025	0.0067
Potential Emission in tons/yr	0.12	0.12	0.12	0.12	1.76	0.14	0.38

*PM and PM2.5 emission factors are assumed to be equivalent to PM10 emission factors. No information was given regarding which method was used to determine the factor or the fraction of PM10 which is condensable.

Hazardous Air Pollutants (HAPs)

	Pollutant							Total PAH HAPs***
	Benzene	Toluene	Xylene	1,3-Butadiene	Formaldehyde	Acetaldehyde	Acrolein	
Emission Factor in lb/hp-hr****	6.53E-06	2.86E-06	2.00E-06	2.74E-07	8.26E-06	5.37E-06	6.48E-07	1.18E-06
Potential Emission in tons/yr	3.71E-04	1.62E-04	1.13E-04	1.55E-05	4.69E-04	3.05E-04	3.67E-05	6.67E-05

***PAH = Polyaromatic Hydrocarbon (PAHs are considered HAPs, since they are considered Polycyclic Organic Matter)

****Emission factors in lb/hp-hr were calculated using emission factors in lb/MMBtu and a brake specific fuel consumption of 7,000 Btu / hp-hr (AP-42 Table 3.3-1).

Potential Emission of Total HAPs (tons/yr)	1.54E-03
---	-----------------

Green House Gas Emissions (GHG)

	Pollutant		
	CO2	CH4	N2O
Emission Factor in lb/hp-hr	1.15E+00	4.63E-05	9.26E-06
Potential Emission in tons/yr	6.53E+01	2.63E-03	5.25E-04

Summed Potential Emissions in tons/yr	6.53E+01
CO2e Total in tons/yr	6.55E+01

Methodology

Emission Factors are from AP42 (Supplement B 10/96), Tables 3.3-1 and 3.3-2

CH4 and N2O Emission Factor from 40 CFR 98 Subpart C Table C-2.

Global Warming Potentials (GWP) from Table A-1 of 40 CFR Part 98 Subpart A.

Potential Throughput (hp-hr/yr) = [Output Horsepower Rating (hp)] * [Maximum Hours Operated per Year]

Potential Emission (tons/yr) = [Potential Throughput (hp-hr/yr)] * [Emission Factor (lb/hp-hr)] / [2,000 lb/ton]

CO2e (tons/yr) = CO2 Potential Emission ton/yr x CO2 GWP (1) + CH4 Potential Emission ton/yr x CH4 GWP (21)

+ N2O Potential Emission ton/yr x N2O GWP (310).

Appendix A: Emission Calculations
Blasting Units

Company Name: Jasper Engine Exchange, Inc.
Address City IN Zip: 815 Wernsing Road, Jasper, IN 47547
Significant Source Modification No.: 037-31873-00089
Significant Permit Modification No.: 037-31937-00089
Reviewer: Kristen Willoughby
Date: May 23, 2012

Unit ID	Control Unit ID	Blast Media	Blast Rate (lb/hr)	Emission Factor		Uncontrolled PTE (tons/year)		Control Efficiency	Controlled PTE (tons/year)	
				PM (lb/lb blast media)	PM10 / PM2.5 (lb/lb PM)	PM	PM10 / PM2.5		PM	PM10 / PM2.5
BLA073	DUC-082	Plastic Bead	108	0.01	1	4.73	4.73	99.0%	0.047	0.047
BLA074	DUC-083	Plastic Bead	108	0.01	1	4.73	4.73	99.0%	0.047	0.047
BLA076	DUC-081	Plastic Bead	108	0.01	1	4.73	4.73	99.0%	0.047	0.047
BLA078	DUC-082	Plastic Bead	108	0.01	1	4.73	4.73	99.0%	0.047	0.047
BLA080	DUC-082	Plastic Bead	108	0.01	1	4.73	4.73	99.0%	0.047	0.047
BLA067	DUC-081	Plastic Bead	108	0.01	1	4.73	4.73	99.0%	0.047	0.047
BLA086	DUC-081	Plastic Bead	108	0.01	1	4.73	4.73	99.0%	0.047	0.047
BLA087	DUC-081	Plastic Bead	108	0.01	1	4.73	4.73	99.0%	0.047	0.047
BLA088	DUC-081	Plastic Bead	108	0.01	1	4.73	4.73	99.0%	0.047	0.047
BLA089	DUC-082	Plastic Bead	108	0.01	1	4.73	4.73	99.0%	0.047	0.047
BLA090	BLA-090	Plastic Bead	108	0.01	1	4.73	4.73	99.0%	0.047	0.047
BLA091	DUC-083	Plastic Bead	108	0.01	1	4.73	4.73	99.0%	0.047	0.047
BLA-045	BLA-045	Plastic Bead	116	0.01	1	5.08	5.08	99.0%	0.051	0.051
BLA075	DUC-083	Steel Shot	800	0.004	0.86	14.02	12.05	99.0%	0.140	0.121
BLA077	BLA-077	Steel Shot	800	0.004	0.86	14.02	12.05	99.0%	0.140	0.121
BLA079	DUC-082	Steel Shot	800	0.004	0.86	14.02	12.05	99.0%	0.140	0.121
BLA081	DUC-081	Steel Shot	800	0.004	0.86	14.02	12.05	99.0%	0.140	0.121
BLA085	BLA-085	Steel Shot	800	0.004	0.86	14.02	12.05	99.0%	0.140	0.121
BLA084	DUC-081	Steel Shot	800	0.004	0.86	14.02	12.05	99.0%	0.140	0.121
BLA026	DUC-081	Steel Shot	800	0.004	0.86	14.02	12.05	99.0%	0.140	0.121
BLA-019	DUC-082	Steel Shot	600	0.004	0.86	10.51	9.04	99.0%	0.105	0.090
BLA-068	DUC-082	Steel Shot	600	0.004	0.86	10.51	9.04	99.0%	0.105	0.090
BLA031	DUC-083	Sodium Bicarbonate	NA	0.01	1	NA	NA	99.0%	NA	NA
BLA032	DUC-083	Sodium Bicarbonate	NA	0.01	1	NA	NA	99.0%	NA	NA
BLA033	DUC-082	Sodium Bicarbonate	NA	0.01	1	NA	NA	99.0%	NA	NA
BLA034	DUC-083	Sodium Bicarbonate	NA	0.01	1	NA	NA	99.0%	NA	NA
BLA042	DUC-083	Sodium Bicarbonate	NA	0.01	1	NA	NA	99.0%	NA	NA
BLA008	DUC-083	Coal Slag	NA	0.01	1	NA	NA	99.0%	NA	NA
BLA041	DUC-084	Coal Slag	NA	0.01	1	NA	NA	99.0%	NA	NA
BLA-065	DUC-084	Aluminum Oxide	315	0.01	1	13.80	13.80	99.0%	0.138	0.138
BLA037	DUC-084	Armex Blast Media	NA	0.01	1	NA	NA	99.0%	NA	NA
BLA056	DUC-081	Armex Blast Media	12.5	0.01	1	0.55	0.55	99.0%	0.005	0.005
BLA057	DUC-083	Armex Blast Media	12.5	0.01	1	0.55	0.55	99.0%	0.005	0.005
BLA064	DUC-084	Armex Blast Media	12.5	0.01	1	0.55	0.55	99.0%	0.005	0.005
BLA-063	DUC-081	Armex Blast Media	12.5	0.01	1	0.55	0.55	99.0%	0.005	0.005
BLA-066	DUC-081	Armex Blast Media	12.5	0.01	1	0.55	0.55	99.0%	0.005	0.005
BLA-069	DUC-084	Armex Blast Media	12.5	0.01	1	0.55	0.55	99.0%	0.005	0.005
Total						192.24	175.56		1.92	1.76

New Units

Unit ID	Control Unit ID	Blast Media	Blast Rate (lb/hr)	Emission Factor		Uncontrolled PTE (tons/year)		Control Efficiency	Controlled PTE (tons/year)	
				PM (lb/lb blast media)	PM10 / PM2.5 (lb/lb PM)	PM	PM10 / PM2.5		PM	PM10 / PM2.5
BLA-046	DUC-082	Plastic Bead	108	0.01	1	4.73	4.73	99.0%	0.047	0.047
BLA-061	DUC-083	Plastic Bead	108	0.01	1	4.73	4.73	99.0%	0.047	0.047
BLA-100	DUC-081	Plastic Bead	108	0.01	1	4.73	4.73	99.0%	0.047	0.047
BLA-105	DUC-083	Plastic Bead	108	0.01	1	4.73	4.73	99.0%	0.047	0.047
BLA-083	DUC-083	Steel Shot	800	0.004	0.86	14.02	12.05	99.0%	0.140	0.121
BLA-094	DUC-083	Armex Blast Media	12.5	0.01	1	0.55	0.55	99.0%	0.005	0.005
BLA-097	DUC-083	Armex Blast Media	12.5	0.01	1	0.55	0.55	99.0%	0.005	0.005
BLA-098	DUC-082	Armex Blast Media	12.5	0.01	1	0.55	0.55	99.0%	0.005	0.005
BLA-099	DUC-082	Armex Blast Media	12.5	0.01	1	0.55	0.55	99.0%	0.005	0.005
BLA-020	DUC-006	Aluminum Oxide	315	0.01	1	13.80	13.80	99.0%	0.138	0.138
BLA-018	DUC-003	Sand	182	0.041	0.7	32.68	22.88	99.0%	0.327	0.229
Total						81.61	69.84		0.816	0.698

Methodology

NA - This information was unnecessary for determining the new source wide limited emissions which are calculated on the next page. The PTE of these units was previously calculated based on the old control devices grain loading and air flow and will be redone in the renewal.

Blast rate (lb/hr) was provided by the applicant

Emission Factors from STAPPA/ALAPCO "Air Quality Permits", Vol. I, Section 3 "Abrasive Blasting" (1991 edition)

There were no emission factors for PM2.5. Therefore, assume PM10 = PM2.5.

Uncontrolled PTE PM (tons/year) = Blast Rate (lb/hr) * PM Emission Factor (lb/lb blast media) * (8760 hr/yr) * (1 ton/2000 lb)

Uncontrolled PTE PM10 (tons/year) = Uncontrolled PTE PM (tons/year) * PM10 Emission Factor (lb/lb PM)

Controlled PTE (tons/year) = Uncontrolled PTE * (1 - Control Efficiency)

Allowable Emissions Pursuant to 326 IAC 6.5-1-2

Unit ID	Unit	Flowrate (acfm)	326 IAC 6.5-1-2 Allowable PM
DUC-081 (BLA-056, BLA076, BLA081, BLA067, BLA086, BLA087, BLA088, BLA084, BLA026, BLA-100, BLA-063, BLA-066)	Plastic and Steel Shot Blast Units	40,000	10.29
DUC-082 (BLA-073, BLA078, BLA080, BLA079, BLA089, BLA033, BLA-046, BLA-098, BLA-099, BLA-019, BLA-068)	Plastic Shot, Steel Shot, and Sodium Bicarbonate Blast Units	40,000	10.29
DUC-083 (BLA-057, BLA074, BLA075, BLA091, BLA031, BLA032, BLA034, BLA042, BLA008, BLA-061, BLA-105, BLA-083, BLA-097, BLA-094)	Plastic Shot, Steel Shot, and Armex Blast Units	40,000	10.29
DUC-084 (BLA-037, BLA-065, BLA-069, BLA041, BLA064)	Armex and Coal Slag Blast Units	40,000	10.29
BLA085 (BLA085)	Steel Shot Blast Unit	2000	0.51
BLA-077 (BLA077)	Steel Shot Blast Unit	559	0.14
BLA-090 (BLA090)	Steel Shot Blast Unit	600	0.15
BLA-045 (BLA-045)	Plastic Bead Blast Unit	600	0.15
DUC-003 (BLA-018)	Sand Blast Unit	1200	0.31
DUC-006 (BLA-020)	Aluminum Oxide Blast Unit	1800	0.46

Methodology

326 IAC 6.5-1-2 Allowable PM (lb/hr) = (0.03 gr/dscf) * Flowrate (acfm) * (60 min/hr) * (1 lb/7000 gr)

Appendix A: Emission Calculations
Particulate Matter

Company Name: Jasper Engine Exchange, Inc.
Address City IN Zip: 815 Wernsing Road, Jasper, IN 47547
Significant Source Modification No.: 037-31873-00089
Significant Permit Modification No.: 037-31937-00089
Reviewer: Kristen Willoughby
Date: May 23, 2012

ID #	Outlet Loading (gr/acf)	CFM	Control Efficiency	Uncontrolled Emissions (ton/yr) (a)	Controlled Emissions		Limited Emissions
					PM/PM10/PM2.5		PM/PM10/PM2.5
					(ton/yr)	(lb/hr)	(ton/yr)
BLA007	0.000454	420	99.00%	0.716	7.16E-03	1.63E-03	0.72
BLA009	0.000478	1250	99.00%	2.243	2.24E-02	5.12E-03	2.24
BLA011	0.002272	420	99.00%	3.582	3.58E-02	8.18E-03	3.58
DUC003*	0.000209	1200	99.00%	32.684	0.33	0.07	10.46
DUC006*	0.000003	18000	99.00%	13.797	0.14	0.03	4.83
DUC015	0.000013	2200	99.90%	1.074	1.07E-03	2.45E-04	1.07
DUC021	0.000024	2000	99.00%	0.180	1.80E-03	4.11E-04	0.18
DUC-081*	0.0003	40000	99.00%	43.800	0.44	0.10	10.07
DUC-082*	0.0003	40000	99.00%	43.800	0.44	0.10	10.07
DUC-083*	0.0003	40000	99.00%	43.800	0.44	0.10	10.07
DUC-084*	0.0003	40000	99.00%	43.800	0.44	0.10	10.07
BLA-045*	-	-	99.00%	5.081	0.05	0.01	5.08
BLA-085*	-	-	99.00%	14.016	0.14	0.03	14.02
BLA-077*	-	-	99.00%	14.016	0.14	0.03	14.02
BLA090*	-	-	99.00%	4.730	0.05	0.01	4.73
Total Emissions:				54.3	2.66	0.61	101.22

Methodology:

*Uncontrolled emissions for units associated with these control devices are included on the previous page totals.

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



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

Mitchell E. Daniels Jr.
Governor

Thomas W. Easterly
Commissioner

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

SENT VIA U.S. MAIL: CONFIRMED DELIVERY AND SIGNATURE REQUESTED

TO: Robert Calvert
Jasper Engine Exchange, Inc.
PO Box 650
Jasper, IN 47547

DATE: September 25, 2012

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

SUBJECT: Final Decision
Significant Permit Modification
037-31937-00089

Enclosed is the final decision and supporting materials for the air permit application referenced above. Please note that this packet contains the original, signed, permit documents.

The final decision is being sent to you because our records indicate that you are the contact person for this application. However, if you are not the appropriate person within your company to receive this document, please forward it to the correct person.

A copy of the final decision and supporting materials has also been sent via standard mail to:
Michael Schwenk, Responsible Official
OAQ Permits Branch Interested Parties List

If you have technical questions regarding the enclosed documents, please contact the Office of Air Quality, Permits Branch at (317) 233-0178, or toll-free at 1-800-451-6027 (ext. 3-0178), and ask to speak to the permit reviewer who prepared the permit. If you think you have received this document in error, please contact Joanne Smiddie-Brush of my staff at 1-800-451-6027 (ext 3-0185), or via e-mail at jbrush@idem.IN.gov.

Final Applicant Cover letter.dot 11/30/07



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

Mitchell E. Daniels Jr.
Governor

Thomas W. Easterly
Commissioner

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

September 25, 2012

TO: Jasper Public Library

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

Subject: **Important Information for Display Regarding a Final Determination**

Applicant Name: Jasper Engine Exchange, Inc.
Permit Number: 037-31937-00089

You previously received information to make available to the public during the public comment period of a draft permit. Enclosed is a copy of the final decision and supporting materials for the same project. Please place the enclosed information along with the information you previously received. To ensure that your patrons have ample opportunity to review the enclosed permit, **we ask that you retain this document for at least 60 days.**

The applicant is responsible for placing a copy of the application in your library. If the permit application is not on file, or if you have any questions concerning this public review process, please contact Joanne Smiddie-Brush, OAQ Permits Administration Section at 1-800-451-6027, extension 3-0185.

Enclosures
Final Library.dot 11/30/07

Mail Code 61-53

IDEM Staff	PWAY 9/25/2012 Jasper Engine Exchange, Inc 037-31937-00089 (final)		Type of Mail: CERTIFICATE OF MAILING ONLY	AFFIX STAMP HERE IF USED AS CERTIFICATE OF MAILING
Name and address of Sender	▶	Indiana Department of Environmental Management Office of Air Quality – Permits Branch 100 N. Senate Indianapolis, IN 46204		

Line	Article Number	Name, Address, Street and Post Office Address	Postage	Handing Charges	Act. Value (If Registered)	Insured Value	Due Send if COD	R.R. Fee	S.D. Fee	S.H. Fee	Rest. Del. Fee	Remarks
1		Robert Calvert Jasper Engine Exchange, Inc PO Box 650 Jasper IN 47547-0650 (Source CAATS)										
2		Michael Schwenk VP Jasper Engine Exchange, Inc PO Box 650 Jasper IN 47547-0650 (RO CAATS)										
3		Mr. Wendell Hibdon Plumbers & Steam Fitters Union, Local 136 2300 St. Joe Industrial Park Dr Evansville IN 47720 (Affected Party)										
4		Dubois County Commissioners One Courthouse Square Jasper IN 47546 (Local Official)										
5		Jasper Dubois County Public Library 1116 Main St Jasper IN 47546-2899 (Library)										
6		Jasper City Council and Mayors Office PO Box 29, 610 Main Jasper IN 47546 (Local Official)										
7		Mr. Alec Kalla 8733 W. Summit Circle Drive French Lick IN 47432 (Affected Party)										
8		DuBois County Health Department 1187 S St. Charles Street Jasper IN 47546 (Health Department)										
9		Mr. John Blair 800 Adams Ave Evansville IN 47713 (Affected Party)										
10		Mr. Michael Schwenk Jasper Engine Exchange, Inc. P.O. Box 650 Jasper IN 47547-0650 (Affected Party)										
11												
12												
13												
14												
15												

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