



Mitchell E. Daniels, Jr.
Governor

Thomas W. Easterly
Commissioner

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

TO: Interested Parties / Applicant
DATE: December 12, 2007
RE: Caterpillar Reman Power train Indiana, Inc. / 081-25507-00056
FROM: Matthew Stuckey, Deputy Branch Chief
Permits Branch
Office of Air Quality

Notice of Decision – Approval

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 326 IAC 2, this approval was effective immediately upon submittal of the application.

If you wish to challenge this decision, IC 4-21.5-3-7 requires that you file a petition for administrative review. This petition may include a request for stay of effectiveness and must be submitted to the Office of Environmental Adjudication, 100 North Senate Avenue, Government Center North, Suite N 501E, Indianapolis, IN 46204, **within eighteen (18) calendar days from 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.

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

Enclosures
FNPER-AM.dot12/3/07



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We make Indiana a cleaner, healthier place to live.

Mitchell E. Daniels, Jr.
Governor

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Commissioner

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Kevin Poad
Caterpillar Reman Powertrain Indiana, Inc.
751 International Drive
Franklin, Indiana 46131

December 12, 2007

Re: 081-25507-00056
First Administrative Amendment to
F081-20601-00056

Dear Mr. Poad:

Franklin Power Products / International Fuel Systems was issued a Federally Enforceable State Operating Permit (FESOP) No. F081-20601-00056 on September 6, 2005 for a stationary diesel engine remanufacturing plant located at 751 International Drive Franklin, Indiana 46131. On November 7, 2007, the Office of Air Quality (OAQ) received an application from the source requesting the following changes:

1. The source requested that the permit be updated to indicate a change in ownership and company name change to Caterpillar Reman Powertrain Indiana, Inc. This change to the permit is considered an administrative amendment pursuant to 326 IAC 2-8-10(a)(4).
2. The source plans to add the following new emission units:
 - (1) One (1) agitating cold solvent cleaner, identified as CC - 170A, approved for construction in 2007, with a maximum capacity of two (2) gallons per day.
 - (2) One (1) manual plastic bead abrasive blasting facility, identified as PBB#8, approved for construction in 2007, equipped with one (1) dust collector, exhausting into the building, capacity; 212.12 pounds of abrasive per hour.
 - (3) One (1) three stage, detergent parts washer, identified as I-6 Parts Washer, approved for construction in 2007, using organic solvents.

The new cold cleaner, manual plastic bead abrasive blaster, and detergent parts washer are of the same type and will comply with the same applicable requirements and permit terms and conditions as the existing emission units at the source. The addition of these units to the permit is considered an administrative amendment pursuant to 326 IAC 2-8-10(a)(14). The entire source will continue to limit emissions as specified in the table. As a result, the requirements of 326 IAC 2-7 are not applicable. The addition of these units will not cause the source's potential to emit to be greater than the threshold levels specified in 326 IAC 2-2 or 326 IAC 2-3.

Potential to Emit of Entire Source after Issuance

The table below summarizes the potential to emit, reflecting all limits of the emission units. Any control equipment is considered enforceable only after issuance of the FESOP and only to the extent that the effect of the control equipment is made practically enforceable in the permit.

Potential to Emit (PTE) After Issuance (tons/year)							
Process	PM	PM10	SO₂	NOx	VOC	CO	HAPs
Natural Gas Heaters and Washers (P003)	0.54	2.17	0.17	28.58	1.57	24.01	0.54
Burn-Off Oven w/ Afterburner (P005)	4.53	4.53	0.04	6.04	0.33	5.08	0.00
Abrasive Blasting (P006)	121.76	41.15	0.00	0.00	0.00	0.00	0.00
Cold Cleaning Degreasers (P002)	0.00	0.00	0.00	0.00	25.96	0.00	0.048
Engine Test Cells (P004)	0.00	5.37	5.02	59.60	6.24	16.46	0.49
Misc. Plant-wide (P001)	0.00	0.00	0.00	0.00	27.01	0.00	2.45
Welding (P007)	0.84	0.84	0.00	0.00	0.00	0.00	0.00
Surface Coating (PB#1)*	0.71	0.71	0.00	0.00	10.40	0.00	2.58
Parts Washer (P008)	0.00	0.00	0.00	0.00	0.96	0.00	0.09
Total	128.39	54.78	5.23	94.23	72.47	45.55	6.20

*PM/PM10 PTE After Control

3. The source requested the potential to emit calculations be updated for the paint spray booth to represent the current worst-case coating formulation (see attachment A). This change in operation will be incorporated into the permit as an administrative amendment, since the potential emissions of regulated criteria pollutants and hazardous air pollutants are less than the ranges specified 326 IAC 2-8-11.1(d)(4) and 326 IAC 2-8-11.1(f)(1)(G), respectively.
4. The source requested that the permit be updated to indicate that one (1) diesel-powered engine test cell, identified as dyno #7, was not installed in 2005. However, the source is now requesting permission to construct and operate dyno #7. This update will not cause the source's potential to emit to change. The source will continue to limit NOx emissions from the eight (8) diesel-powered engine test cells to 59.6 tons per twelve (12) consecutive month period, rendering the requirements of 326 IAC 2-7 not applicable. This change to the permit is considered an administrative amendment pursuant to 326 IAC 2-8-10(a)(6), since it is a revision to descriptive information where the revision will not trigger a new applicable requirement or violate a permit term.

Pursuant to the provisions of 326 IAC 2-8-10, the permit is hereby administratively amended as follows with the deleted language as ~~strikeouts~~ and new language **bolded**.

A.2 Emission Units and Pollution Control Equipment Summary [326 IAC 2-8-3(c)(3)]

- ...
- (c) Cold solvent degreasing, collectively identified as P002.
- ...
- (6) One (1) agitating cold solvent cleaner, identified as CC - 170A, approved for construction in 2007, with a maximum capacity of 2 gallons per day.**
- ...
- (e) Eight (8) diesel-powered engine test cells (dynos), collectively identified as P004, **with a** and individually known as E-1 ~~—~~ E-8, installed in 2006, each rated at a maximum output of 275 horsepower, individually exhausting to stacks identified as P004-1 ~~—~~ P004-8, and ~~venting to atmosphere;~~ combined capacity of 120 engines per day, 36,000 engines per year.

- (1) **Seven (7) diesel-powered engine test cells (dynos), individually identified as E-1 – E-6 and E-8, installed in 2006, each rated at a maximum output of 275 horsepower, individually exhausting to stacks identified as P004-1 – P004-6 and P004-8 and venting to the atmosphere.**
- (2) **One (1) diesel-powered engine test cell (dyno), individually identified as E-7, approved for construction in 2007, rated at a maximum output of 600 horsepower, individually exhausting to stack P004-7 and venting to the atmosphere.**
- (g) Abrasive blasting and grinding, collectively identified as P006.
- ...
- (13) **One (1) manual plastic bead abrasive blasting facility, identified as PBB#8, approved for construction in 2007, equipped with one (1) dust collector, exhausting into the building, capacity; 212.12 pounds of abrasive per hour.**
- ...
- (i) **Detergent parts washer, collectively identified as P008.**
- (1) **One (1) three stage, detergent parts washer, identified as I-6 Parts Washer, approved for construction in 2007, using organic solvents.**

...
SECTION D.2 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-8-4(10)]:

- (c) Cold solvent degreasing, collectively identified as P002.
- ...
- (6) **One (1) agitating cold solvent cleaner, identified as CC-170A, approved for construction in 2007, with a maximum capacity of 2.0 gallons per day.**
- (i) **Detergent parts washer, collectively identified as P008.**
- (1) **One (1) three stage, detergent parts washer, identified as I-6 Parts Washer, approved for construction in 2007, using organic solvents.**

...

...
SECTION D.4 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-8-4(10)]:

- (e) ~~Eight (8) diesel-powered engine test cells (dynos), collectively identified as P004, with a and individually known as E-1 – E-8, installed in 2005, each rated at a maximum output of 275 horsepower, individually exhausting to stacks identified as P004-1 – P004-8 and venting to atmosphere; combined capacity of 120 engines per day, 36,000 engines per year.~~
- (1) **Seven (7) diesel-powered engine test cells (dynos), individually identified as E-1 – E-6 and E-8, installed in 2006, each rated at a maximum output of 275 horsepower, individually exhausting to stacks identified as P004-1 – P004-6 and P004-8 and venting to the atmosphere.**
- (2) **One (1) diesel-powered engine test cell (dyno), individually identified as E-7, approved for construction in 2007, rated at a maximum output of 600 horsepower, individually exhausting to stack P004-7 and venting to the atmosphere.**

...

SECTION D.6 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-8-4(10)]:

(g) Abrasive blasting and grinding, collectively identified as P006, as follows:

...

(13) One (1) manual plastic bead abrasive blasting facility, identified as PBB#8, approved for construction in 2007, equipped with one (1) dust collector, exhausting into the building, capacity; 212.12 pounds of abrasive per hour.

...

D.6.1 FESOP Minor Limit Particulate Matter (PM10) [326 IAC 2-8] [326 IAC 2-2] [326 IAC 2-1.1-5]

Pursuant to 326 IAC 2-8 the source will limit source wide PM10 emissions to below 100 tons per year by limiting the pound per hour emissions of the controlled units. The controlled units shall be limited as follows:

Unit	PM10 Limit Per Unit (lb/hr)
SSB#7	0.68
SSB#4, SSB#5	0.80
SSB#2	1.83
SSB#1, SSB#8	1.60
GBB#1, GBB#2, GBB#3	0.02
GBB#4, GBB#5, GBB#6, GBB#7, GBB#8, GBB#9,	0.03
GBB#10, GBB#11, GBB#12	0.04
PBB#1, PBB#2	0.02
PBB#3, PBB#4, PBB#5, PBB#6, PBB#7	0.04
PBB#8	1.48
Total:	7.91 9.39

Compliance with these limits combined with the potential PM10 emissions from all other emission units at this source will limit the source-wide total potential to emit of PM10 to less than 100 tons per 12 consecutive month period and will render 326 IAC 2-7 (Part 70 Permits), 326 IAC 2-2 (PSD), and 326 IAC 2-1.1-5 (Air Quality Requirements) not applicable.

D.6.2 Particulate Matter (PM) [326 IAC 6-3-2] [326 IAC 2-2]

Pursuant to, 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes) the particulate emissions from abrasive blasting and grinding (P006) shall not exceed the pound per hour emission rate established as E in the following formula:

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

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

The emissions rate E has been established for the units as follows:

Units	Process Weight Rate per unit (tons/hour)	PM Emission Limit per unit (lbs/hr)
SSB#2, SSB#8	1	4.1
SSB#1	0.75	3.38
SSB#4, SSB#5	0.33	1.95
SSB#7	0.1	0.88

Units	Process Weight Rate per unit (tons/hour)	PM Emission Limit per unit (lbs/hr)
GBB#4, GBB#5, GBB#6, GBB#7, GBB#8, GBB#9	0.025	0.35
GBB#1, GBB#2, GBB#3	0.0125	0.22
GBB#10, GBB#11, GBB#12	0.025	0.35
PBB#1, PBB#6, PBB#8	0.36	2.07
PBB#2, PBB#3, PBB#4, PBB#5, PBB#7	0.015	0.246
RB#1	0.01	0.19
	Total	25.73 27.8

Compliance with these limits combined with the potential PM emissions from all other emission units at this source will limit the source-wide total potential to emit of PM to less than 250 tons per 12 consecutive month period and will render 326 IAC 2-2 (PSD) not applicable.

D.6.3 Particulate Control

(a) In order to comply with Conditions D.6.41 and D.6.52, particulate from abrasive blasting and grinding manufacturing processes shall be controlled by dust collectors and the Permittee shall operate the control device in accordance with manufacturer's specifications.

...

D.6.6 Parametric Monitoring

The Permittee shall record the pressure drop across the dust collectors controlling the abrasive blasting, and grinding operations (SSB#1, SSB#2, SSB#4, SSB#5, SSB#7 and SSB#8, SB#1, GBB#1 - GBB#12, and PBB#1 – PBB#7**8**), once per day when venting to the outside atmosphere. When for any one reading, the pressure drop across the dust collector is outside the normal range of 1.0 and 6.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C- Response to Excursions or Exceedances. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a deviation from this permit.

...

IDEM, OAQ has decided to make additional revisions to the permit as described below. The permit is revised as follows with deleted language as ~~strikeouts~~ and new language **bolded**:

(1) All occurrences of IDEM mailing addresses have been revised to include a mail code (MC) as follows:

Asbestos Section:	MC 61-52 IGCN 1003
Compliance Branch:	MC 61-53 IGCN 1003
Permits Branch:	MC 61-53 IGCN 1003
Technical Support and Modeling Section:	MC 61-50 IGCN 1003

(2) IDEM has begun implementing a new procedure and will no longer list the name or title of the Authorized Individual (A.I.) in the permit document. Section A.1 is updated as follows:

~~Authorized Individual:~~ ~~Plant Manager~~

(3) On November 9, 2007, the Indiana Air Pollution Control Board finalized a temporary emergency rule to re-designate Boone, Clark, Elkhart, Floyd, LaPorte, Hamilton, Hancock, Hendricks,

Johnson, Madison, Marion, Morgan, Shelby, and St. Joseph as attainment for the 8-hour ozone standard. Therefore, Section A.1 is updated as follows:

~~Nonattainment~~ **Attainment** for Ozone under the 8-hour standard

- (4) In order to correct a typographical error, Condition C.17(b) is revised from the terminology "one-hundred and twenty" to "one hundred twenty."

C.17 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-8-4] [326 IAC 2-8-5]

- (b) A retest to demonstrate compliance shall be performed within one hundred twenty (120) days of receipt of the original test results. Should the Permittee demonstrate to IDEM, OAQ that retesting in one- hundred and twenty (120) days is not practicable, IDEM, OAQ may extend the retesting deadline.
- (5) In order to clarify that the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) and 326 IAC 2-1-1.5 (Air Quality Requirements) are not applicable, Condition D.6.1 has been updated (see Condition D.6.1 above for changes).
- (6) In order to clarify that the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) are not applicable, Condition D.6.2 has been updated (see Condition D.6.2 above for changes).
- (7) Condition D.6.3 has been updated to clarify that particulate from abrasive blasting and grinding manufacturing processes shall be controlled by dust collectors in order to comply with the limits found in Conditions D.6.1 and D.6.2 (see Condition D.6.3 above for changes) .
- (8) The intent of Record Keeping Requirements for Visible Emission Notations and Parametric Monitoring is that the Permittee needs to make a record of some sort every day. An example for Visible Emission Notations would be "normal" or "abnormal". Additionally, if Visible Emission Notations were not done on a particular day, the Permittee needs to specify the reason why the observation was not done. An example of this record would be "the unit was not operating" or "the unit was venting indoors". In order to clarify the Record Keeping Requirements with respect to Visible Emission Notations and Baghouse Parametric Monitoring, Condition D.6.8 is revised as follows:

D.6.8 Record Keeping Requirements

- (a) To document compliance with Condition D.6.5, the Permittee shall maintain records of the daily visible emission notations of the shot blast stacks exhaust on days when the shot blasters are exhausting to the outside atmosphere. **The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of visible emission notation (e.g., the process did not operate that day).**
- (b) To document compliance with Condition D.6.6, the Permittee shall maintain records of the pressure drop across the dust collectors controlling the abrasive blasting, and grinding operations (SSB#1, SSB#2, SSB#4, SSB#5, SSB#7 and SSB#8, SB#1, GBB#1 - GBB#12, and PBB#1 – PBB#78), on days when the shot blasters are exhausting to the outside atmosphere. **The Permittee shall include in its daily record when a pressure drop reading is not taken and the reason for the lack of pressure drop reading, (e.g., the process did not operate that day).**

All other conditions of the permit shall remain unchanged and in effect. Attached please find the entire revised permit and calculation tables

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 Brian Williams, of my staff, at 317-234-5375 or 1-800-451-6027, and ask for extension 4-5375.

Sincerely/Original Signed By:

Iryn Calilung, Section Chief
Permits Branch
Office of Air Quality

Attachments: Updated Permit and Calculation Tables

IC/BMW

cc: File - Johnson County
Johnson County Health Department
U.S. EPA, Region V
Air Compliance Section
Compliance Data Section
Technical Support and Modeling
Permits Administrative and Development
Billing, Licensing and Training Section



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**FEDERALLY ENFORCEABLE STATE OPERATING PERMIT
OFFICE OF AIR QUALITY**

**Caterpillar Reman Powertrain Indiana, Inc.
751 International Drive
Franklin, Indiana 46131**

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

The Permittee must comply with all conditions of this permit. Noncompliance with any provision of this permit is grounds for enforcement action; permit termination, revocation and reissuance, or modification; and denial of a permit renewal application. 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.

Indiana statutes from IC 13 and rules from 326 IAC, quoted in conditions in this permit, are those applicable at the time the permit was issued. The issuance or possession of this permit shall not alone constitute a defense against an alleged violation of any law, regulation or standard, except for the requirement to obtain a FESOP under 326 IAC 2-8.

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 2-8 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. This permit also addresses new source review requirements and is intended to fulfill the new source review procedures and permit revision requirements pursuant to 326 IAC 2-8-11.1, applicable to those conditions.

Operation Permit No.: F081-20601-00056	
Issued by: Original Signed By: Paul Dubenetzky, Branch Chief Office of Air Quality	Issuance Date: September 6, 2005 Expiration Date: September 6, 2010
First Significant Permit Revision No.:081-23906-00056, issued on March 14, 2007	

First Administrative Amendment No.:081-25507-00056	Pages Affected: Entire Permit
Issued by/Original Signed By: Matthew Stuckey, Deputy Branch Chief Permits Branch Office of Air Quality	Issuance Date: December 12, 2007 Expiration Date: September 6, 2010

SECTION A SOURCE SUMMARY 5

- A.1 General Information [326 IAC 2-8-3(b)]
- A.2 Emission Units and Pollution Control Equipment Summary [326 IAC 2-8-3(c)(3)]
- A.3 Insignificant Activities [326 IAC 2-7-1(21)] [326 IAC 2-8-3(c)(3)(l)]
- A.4 FESOP Applicability [326 IAC 2-8-2]

SECTION B GENERAL CONDITIONS 12

- B.1 Definitions [326 IAC 2-8-1]
- B.2 Revocation of Permits [326 IAC 2-1.1-9(5)]
- B.3 Affidavit of Construction [326 IAC 2-5.1-3(h)] [326 IAC 2-5.1-4] [326 IAC 2-7]
- B.4 Permit Term [326 IAC 2-8-4(2)][326 IAC 2-1.1-9.5] [IC 13-15-3-6(a)]
- B.5 Term of Conditions [326 IAC 2-1.1-9.5]
- B.6 Enforceability [326 IAC 2-8-6]
- B.7 Severability [326 IAC 2-8-4(4)]
- B.8 Property Rights or Exclusive Privilege [326 IAC 2-8-4(5)(D)]
- B.9 Duty to Provide Information [326 IAC 2-8-4(5)(E)]
- B.10 Compliance Order Issuance [326 IAC 2-8-5(b)]
- B.11 Certification [326 IAC 2-8-3(d)] [326 IAC 2-8-4(3)(C)(i)] [326 IAC 2-8-5(1)]
- B.12 Annual Compliance Certification [326 IAC 2-8-5(a)(1)]
- B.13 Preventive Maintenance Plan [326 IAC 1-6-3][326 IAC 2-8-4(9)][326 IAC 2-8-5(a)(1)]
- B.14 Emergency Provisions [326 IAC 2-8-12]
- B.15 Prior Permits Superseded [326 IAC 2-1.1-9.5]
- B.16 Termination of Right to Operate [326 IAC 2-8-9][326 IAC 2-8-3(h)]
- B.17 Deviations from Permit Requirements and Conditions [326 IAC 2-8-4(3)(C)(ii)]
- B.18 Permit Modification, Reopening, Revocation and Reissuance, or Termination [326 IAC 2-8-4(5)(C)][326 IAC 2-8-7(a)][326 IAC 2-8-8]
- B.19 Permit Renewal [326 IAC 2-8-3(h)]
- B.20 Permit Amendment or Revision [326 IAC 2-8-10][326 IAC 2-8-11.1]
- B.21 Operational Flexibility [326 IAC 2-8-15][326 IAC 2-8-11.1]
- B.22 Source Modification Requirement [326 IAC 2-8-11.1]
- B.23 Inspection and Entry [326 IAC 2-8-5(a)(2)][IC13-14-2-2][IC 13-17-3-2][IC13-30-3-1]
- B.24 Transfer of Ownership or Operational Control [326 IAC 2-8-10]
- B.25 Annual Fee Payment [326 IAC 2-7-19][326 IAC 2-8-4(6)] [326 IAC 2-8-16] [326 IAC 2-1.1-7]
- B.26 Credible Evidence [326 IAC 2-8-4(3)][326 IAC 2-8-5][62 FR 8314] [326 IAC 1-1-6]

SECTION C SOURCE OPERATION CONDITIONS 22

Emission Limitations and Standards [326 IAC 2-8-4(1)]

- C.1 Particulate Emission Limitations For Processes with Process Weight Rates Less Than One Hundred (100) pounds per hour [326 IAC 6-3-2]
- C.2 Overall Source Limit [326 IAC 2-8]
- C.3 Opacity [326 IAC 5-1]
- C.4 Open Burning [326 IAC 4-1][IC 13-17-9]
- C.5 Incineration [326 IAC 4-2] [326 IAC 9-1-2(3)]
- C.6 Fugitive Dust Emissions [326 IAC 6-4]
- C.7 Stack Height [326 IAC 1-7]
- C.8 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61 Subpart M]

Testing Requirements [326 IAC 2-8-4(3)]

- C.9 Performance Testing [326 IAC 3-6]

Compliance Requirements [326 IAC 2-1.1-11]

- C.10 Compliance Requirements [326 IAC 2-1.1-11]

Compliance Monitoring Requirements [326 IAC 2-8-4] [326 IAC 2-8-5(a)(1)]

- C.11 Compliance Monitoring [326 IAC 2-8-4(3)] [326 IAC 2-8-5(a)(1)]
- C.12 Monitoring Methods [326 IAC 3][40 CFR 60][40 CFR 63]
- C.13 Instrument Specifications [326 IAC 2-1.1-11] [326 IAC 2-8-4(3)][326 IAC 2-8-5(1)]

Corrective Actions and Response Steps [326 IAC 2-8-4] [326 IAC 2-8-5]

- C.14 Emergency Reduction Plans [326 IAC 1-5-2] [326 IAC 1-5-3]
- C.15 Risk Management Plan [326 IAC 2-8-4] [40 CFR 68]
- C.16 Response to Excursions or Exceedances [326 IAC 2-8-4] [326 IAC 2-8-5]
- C.17 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-8-4] [326 IAC 2-8-5]

Record Keeping and Reporting Requirements [326 IAC 2-8-4(3)]

- C.18 General Record Keeping Requirements [326 IAC 2-8-4(3)][326 IAC 2-8-5]
- C.19 General Reporting Requirements [326 IAC 2-8-4(3)(C)] [326 IAC 2-1.1-11]

Stratospheric Ozone Protection

- C.20 Compliance with 40 CFR 82 and 326 IAC 22-1

SECTION D.1 FACILITY OPERATION CONDITIONS

Paint Booth #1 and VOC Facilities (PB#1 and P001)..... 29

Emission Limitations and Standards [326 IAC 2-8-4(1)]

- D.1.1 Particulate [326 IAC 6-3-2(d)]
- D.1.2 Volatile Organic Compounds (VOC) [326 IAC 8-2-9]
- D.1.3 Volatile Organic Compounds (VOC) Limitations, Clean-up Requirements [326 IAC 8-2-9]
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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 2-8-3(b)]

The Permittee owns and operates a stationary diesel engine remanufacturing operation.

Source Address:	751 International Drive, Franklin, Indiana 46131
Mailing Address:	400 Forsythe Street, Franklin, Indiana 46164
General Source Phone:	(317) 738-5632
SIC Code:	3519
Source Location Status:	Johnson County Attainment for Ozone under the 8-hour standard Nonattainment for PM2.5 Attainment for all other criteria pollutants
Source Status:	Federally Enforceable State Operating Permit (FESOP) Minor Source, under PSD and Emission Offset Rules, Minor Source, Section 112 of the Clean Air Act

A.2 Emission Units and Pollution Control Equipment Summary [326 IAC 2-8-3(c)(3)]

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

- (a) One (1) paint spray booth, identified as PB#1, constructed in 2006, controlled by dry particulate filters, exhausting to a stack identified as SPB-1 and venting to atmosphere, capacity; 120 engines per day, 36,000 engines per year.
- (b) Miscellaneous solvents and plant wide VOC containing material usage not covered elsewhere, identified as P001.
- (c) Cold solvent degreasing, collectively identified as P002.
 - (1) Ten (10) agitating cold solvent cleaners, identified as CC-1 – CC-6 and CC-8 – CC-11, installed in 2006, with a maximum capacity of 0.7 gallon per day, each.
 - (2) One (1) maintenance agitating cold solvent cleaner, identified as CC-7, installed in 2006, with a maximum capacity of 0.5 gallon per day.
 - (3) Three (3) cold solvent cleaning sinks with remote solvent reservoirs, identified as CC12 – CC14, installed in 2006, with a maximum capacity of 0.3 gallon per day, each.
 - (4) Five (5) agitating cold solvent cleaners, identified as AAC-1 – AAC-5, installed in 2006, with a maximum capacity of 0.6 gallon per day, each.
 - (5) Eight (8) calibration fluid cold solvent cleaners, identified as CCC-1 – CCC-8, installed in 2006, with a maximum capacity of 1.2 gallon per day, each.
 - (6) One (1) agitating cold solvent cleaner, identified as CC - 170A, approved for construction in 2007, with a maximum capacity of 2 gallons per day.

- (d) Natural gas combustion fired combustions sources, collectively identified as P003.
- (1) One (1) air make-up unit, installed in 2006, with a rated capacity of 10.40 million British thermal units per hour
 - (2) One (1) Cambridge air make-up unit, installed in 2006, with a rated capacity of 3 million British thermal units per hour.
 - (3) Two (2) Thermadeck air make-up units, installed in 2006, with a rated capacity of 5.83 million British thermal units per hour, each.
 - (4) Three (3) air curtains, installed in 2006, with a rated capacity of 9.5 million British thermal units per hour, each.
 - (5) One (1) office boiler, installed in 2006, with a rated capacity of 0.64 million British thermal units per hour
 - (6) Two (2) unit heaters, installed in 2006, with a rated capacity of 0.15 million British thermal units per hour, each.
 - (7) One (1) unit heater, installed in 2006, with a rated capacity of 0.06 million British thermal units per hour.
 - (8) One (1) break room/ training room furnace, installed in 2006, with a rated capacity of 0.4 million British thermal units per hour.
 - (9) One (1) office furnace, installed in 2006, with a rated capacity of 0.06 million British thermal units per hour.
 - (10) Eleven (11) infrared unit heaters, installed in 2006, with a rated capacity of 0.7 million British thermal units per hour, each.
 - (11) Three (3) infrared unit heaters, installed in 2006, with a rated capacity of 0.3 million British thermal units per hour.
 - (12) Two (2) engine block washers (#1 and #2), installed in 2006, with a rated capacity of 0.225 million British thermal units per hour, each.
 - (13) One (1) Disa Goff hydropulse parts washer, installed in 2006, with a rated capacity of 0.5 million British thermal units per hour.
 - (14) One (1) Hotsy spray washer, installed in 2006, with a rated capacity of 0.687 million British thermal units per hour.
- (e) Eight (8) diesel-powered engine test cells (dynos), collectively identified as P004, with a combined capacity of 120 engines per day, 36,000 engines per year.
- (1) Seven (7) diesel-powered engine test cells (dynos), individually identified as E-1 – E-6 and E-8, installed in 2006, each rated at a maximum output of 275 horsepower, individually exhausting to stacks identified as P004-1 – P004-6 and P004-8 and venting to the atmosphere.
 - (2) One (1) diesel-powered engine test cell (dyno), individually identified as E-7, approved for construction in 2007, rated at a maximum output of 600 horsepower, individually exhausting to stack P004-7 and venting to the atmosphere.

- (f) Natural Gas Fired Burn-off Ovens with Afterburners, collectively identified as P005.
- (1) Five (5) Large Burn-off Ovens, identified as O-1, O-2, O-5, O-10, and O-11, installed in 2006, each rated at 1.2 million British thermal units per hour, each equipped with afterburners rated at 1.2 million British thermal units per hour, individually exhausting to stacks P005-1, P005-2, P005-5, P005-10, and P005-11 and venting to atmosphere, capacity; 4,000 pounds per hour of engine parts and 50 pounds per hour of oily residue, each.
 - (2) Two (2) Medium Burn-off Ovens, identified as O-6 and O-7, installed in 2006, each rated at 0.35 million British thermal units per hour, each equipped with afterburners rated at 0.35 million British thermal units per hour, individually exhausting to stacks P005-6 and P005-7 and venting to atmosphere, capacity; 2,500 pounds per hour of engine parts and 20 pounds per hour of oily residue, each.
 - (3) One (1) Small Burn-off Oven, identified as O-3, installed in 2006, rated at 0.2 million British thermal units per hour, equipped with an afterburner rated at 0.2 million British thermal units per hour, exhausting to stack P005-3 and venting to atmosphere, capacity; 200 pounds per hour of engine parts and 7 pounds per hour of oily residue.
- (g) Abrasive blasting and grinding, collectively identified as P006.
- (1) Two (2) steel shot abrasive blasting facilities, identified as SSB#2 and SSB#8, installed in 2006, each equipped with one (1) of two (2) dust collectors, both exhausting into the building, capacity; 72,000 pounds of abrasive per hour, each.
 - (2) One (1) steel shot abrasive blasting facilities, identified as SSB#1, installed in 2006, equipped with a dust collector, exhausting into the building, capacity; 72,000 pounds of abrasive per hour.
 - (3) One (1) steel shot abrasive blasting facility, identified as SSB#4, installed in 2006, equipped with one (1) dust collector, exhausting into the building, capacity; 24,000 pounds of abrasive per hour.
 - (4) One (1) steel shot abrasive blasting facility, identified as SSB#5, installed in 2006, equipped with one (1) dust collector, exhausting into the building, capacity; 36,000 pounds of abrasive per hour.
 - (5) One (1) steel shot abrasive blasting facility, identified as SSB#7, installed in 2006, equipped with a dust collector, exhausting into the building, capacity; 12,000 pounds of abrasive per hour.
 - (6) Six (6) pneumatic glass bead abrasive facilities, identified as GBB#4, GBB#5, GBB#6, GBB#7, GBB#8, and GBB#9, installed in 2006, each equipped with one (1) of six (6) dust collectors, exhausting into the building, capacity; 196.97 pounds of abrasive per hour, each.
 - (7) Three (3) pneumatic glass bead abrasive facilities, identified as GBB#1, GBB#2, and GBB#3, installed in 2006, each equipped with one (1) of three (3) dust collectors, exhausting into the building, capacity; 196.97 pounds of abrasive per hour, each.

- (8) One (1) pneumatic glass bead abrasive facility, identified as GBB#10, installed in 2006, equipped with one (1) dust collector, exhausting into the building, capacity; 321.82 pounds of abrasive per hour, each.
- (9) Two (2) pneumatic glass bead abrasive facilities, identified as GBB#11 and GBB#12, installed in 2006, each equipped with one (1) of two (2) dust collectors, exhausting into the building, capacity; 67.55 pounds of abrasive per hour, each.
- (10) Two (2) manual plastic bead abrasive blasting facilities, identified as PBB#1 and PBB#6, installed in 2006, each equipped with one (1) of two (2) dust collectors, exhausting into the building, capacity; 212.12 pounds of abrasive per hour, each.
- (11) Five (5) manual plastic bead abrasive blasting facilities, identified as PBB#2 through PBB#5 and PBB#7, installed in 2006, each equipped with one (1) of five (5) dust collectors, exhausting into the building, capacity; 128.79 pounds of abrasive per hour, each.
- (12) One (1) grinding booth, identified as RB#1, installed in 2006, equipped with a dust collector, exhausting into the building, capacity; 480 pounds of engine parts per day.
- (13) One (1) manual plastic bead abrasive blasting facility, identified as PBB#8, approved for construction in 2007, equipped with one (1) dust collector, exhausting into the building, capacity; 212.12 pounds of abrasive per hour.
- (h) Welding Operations, collectively known as P007, installed in 2006 with a maximum capacity of 250 pounds of electrode per day, total.
- (i) Detergent parts washer, collectively identified as P008.
 - (1) One (1) three stage, detergent parts washer, identified as I-6 Parts Washer, approved for construction in 2007, using organic solvents.

A.3 Insignificant Activities [326 IAC 2-7-1(21)] [326 IAC 2-8-3(c)(3)(I)]

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

- (a) Combustion related activities, including the following:
 - (1) Propane or Liquefied petroleum gas, or butane-fired combustion sources with heat input equal to or less than six million (6,000,000) Btu per hour.
 - (2) Equipment powered by internal combustion engines of capacity equal to or less than 500,000 Btu/hr, except where total capacity of equipment operated by one stationary source exceeds 2,000,000 Btu/hr.
 - (3) Combustion source flame safety purging on startup.
- (b) Fuel dispensing activities, including the following:
 - (1) A gasoline fuel transfer and dispensing operation handling less than or equal to 1,300 gallons per day, such as filling of tanks, locomotives, automobiles, having a storage capacity of less than or equal to 10,500 gallons.

- (2) A diesel fuel dispensing facility, having a storage capacity less than or equal to (10,000) gallons, and dispensing (3,500) gallons per day or less as follows:
 - (A) One (1) fixed roof cone tank, identified as T1 Diesel, installed in 2005, with a storage capacity of 500 gallons, and a maximum annual throughput of 6,000 gallons.
 - (B) One (1) fixed roof cone tank, identified as T2 Diesel, installed in 2005, with a storage capacity of 2,000 gallon, and a maximum annual throughput of 250,000 gallons.
- (c) The following VOC and HAP storage containers:
 - (1) Storage tanks with capacity less than or equal to 1,000 gallons and annual throughputs equal to or less than 12,000 gallons.
 - (2) Vessels storing lubricating oils, hydraulic oils, machining oils, and machining fluids.
- (d) Equipment used exclusively for the following: filling drums, pails, or other packaging containers with lubricating oils, waxes, and greases.
- (e) Machining where an aqueous cutting coolant continuously floods the machining interface.
- (f) Degreasing operations that do not exceed 145 gallons per 12 months, except if subject to 326 IAC 20-6.
- (g) Cleaners and solvents characterized as follows:
 - (1) having a vapor pressure equal to or less than 2 kilo Pascals; 15mm Hg; or 0.3 psi measured at 38 degrees Centigrade (100 degrees Fahrenheit); or
 - (2) having a vapor pressure equal to or less than 0.7 kilo Pascals; 5mm Hg; or 0.1 psi measured at 20 degrees Centigrade (68 degrees Fahrenheit); the use of which, for all cleaners and solvents combined, does not exceed 145 gallons per 12 months.
- (h) The following equipment related to manufacturing activities not resulting in the emission of HAPs: brazing equipment, cutting torches soldering equipment, welding equipment.
- (i) Closed loop heating and cooling systems.
- (j) Infrared cure equipment.
- (k) Solvent recycling systems with batch capacity less than or equal to 100 gallons.
- (l) Water based activities, including the following:
 - (1) Activities associated with the treatment of wastewater streams with an oil and grease content less than or equal to 1% by volume.
 - (2) Activities associated with the transportation and treatment of sanitary sewage, provided the discharge to the treatment plant is under the control of the owner or operator, that is, an on-site sewage treatment facility.
 - (3) Any operation using aqueous solutions containing less than 1% VOCs by weight of VOCs excluding HAPs.

- (4) Water based adhesives that are less than or equal to 5% by volume of VOCs excluding HAPs.
- (5) Non-contact cooling tower systems with either of the following:
 - (A) Natural draft cooling towers not regulated under a NESHAP
 - (B) Forced and induced draft cooling tower systems not regulated under a NESHAP.
- (6) Quenching operations used with heat treating processes

Oil, grease, or VOC content shall be determined by a test method acceptable to the department and the U.S. EPA.

- (m) Repair activities, including the following:
 - (1) Replacement or repair of electrostatic precipitators, bags in baghouses and filters in other air filtration equipment.
 - (2) Heat exchanger cleaning and repair.
- (n) Trimmers that do not produce fugitive emissions and that are equipped with a dust collector or trim material recovery device such as a bag filter or cyclone.
- (o) Paved and unpaved roads and parking lots with public access.
- (p) Routine maintenance and repair of buildings, structures, or vehicles at the source where air emissions from those activities would not be associated with any production process, including the following: purging of gas lines.
- (q) Equipment used to collect any material that might be released during a malfunction, process upset, or spill cleanup, including catch tanks, temporary liquid separators, tanks, and fluid handling equipment.
- (r) Blowdown for any of the following: sight glass; boiler; compressors; pumps; and cooling tower.
- (s) Onsite fire and emergency response training approved by the department.
- (t) Emergency generators as follows:
 - (1) Gasoline generators not exceeding 110 horsepower.
 - (2) Diesel generators not exceeding 1,600 horsepower.
- (u) Other emergency equipment as follows: Stationary fire pumps.
- (v) Grinding and machining operations controlled with fabric filters, scrubbers, mist collectors and electrostatic precipitators with a design grain loading of less than or equal to 0.03 grains per actual cubic foot and a gas flow rate less than or equal to 100 actual cubic feet per minute, including the following: deburring; buffing; polishing; abrasive blasting; pneumatic conveying; and woodworking.

- (w) Mold release agents using low volatile products (vapor pressure less than or equal to 2 kilopascals measured at 39 degrees Centigrade).
- (x) A laboratory as defined in 326 IAC 2-7-1(21)(D).

A.4 FESOP Applicability [326 IAC 2-8-2]

This stationary source, otherwise required to have a Part 70 permit as described in 326 IAC 2-7-2(a), has applied to the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ) for a Federally Enforceable State Operating Permit (FESOP).

SECTION B GENERAL CONDITIONS**B.1 Definitions [326 IAC 2-8-1]**

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 Revocation of Permits [326 IAC 2-1.1-9(5)]

Pursuant to 326 IAC 2-1.1-9(5)(Revocation of Permits), the Commissioner may revoke this permit if construction is not commenced within eighteen (18) months after receipt of the approval or if construction is suspended for a continuous period of one (1) year or more.

B.3 Affidavit of Construction [326 IAC 2-5.1-3(h)] [326 IAC 2-5.1-4] [326 IAC 2-8]

This document shall also become the approval to operate pursuant to 326 IAC 2-5.1-4 and 326 IAC 2-8 when prior to the start of operation, the following requirements are met:

- (a) The attached Affidavit of Construction shall be submitted to the Office of Air Quality (OAQ), verifying that the emission units were constructed as proposed in the application or the permit. The emission units covered in this permit may begin operating on the date the Affidavit of Construction is postmarked or hand delivered to IDEM if constructed as proposed.
- (b) If actual construction of the emission units differs from the construction proposed in the application, the source may not begin operation until the permit has been revised pursuant to 326 IAC 2 and an Operation Permit Validation Letter is issued.
- (c) The Permittee shall attach the Operation Permit Validation Letter received from the Office of Air Quality (OAQ) to this permit.

B.4 Permit Term [326 IAC 2-8-4(2)][326 IAC 2-1.1-9.5][IC 13-15-3-6(a)]

- (a) This permit, F081-20601-00056, 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, until the renewal permit has been issued or denied.

B.5 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.6 Enforceability [326 IAC 2-8-6]

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 Severability [326 IAC 2-8-4(4)]

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.8 Property Rights or Exclusive Privilege [326 IAC 2-8-4(5)(D)]

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

B.9 Duty to Provide Information [326 IAC 2-8-4(5)(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 an "authorized individual" as defined by 326 IAC 2-1.1-1(1). 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.10 Compliance Order Issuance [326 IAC 2-8-5(b)]

IDEM, OAQ may issue a compliance order to this Permittee upon discovery that this permit is in nonconformance with an applicable requirement. The order may require immediate compliance or contain a schedule for expeditious compliance with the applicable requirement.

B.11 Certification [326 IAC 2-8-3(d)][326 IAC 2-8-4(3)(C)(i)][326 IAC 2-8-5(1)]

- (a) Where specifically designated by this permit or required by an applicable requirement, any application form, report, or compliance certification submitted shall contain certification by an "authorized individual" of truth, accuracy, and completeness. This certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.
- (b) One (1) certification shall be included, using the attached Certification Form, with each submittal requiring certification. One (1) certification may cover multiple forms in one (1) submittal.
- (c) An "authorized individual" is defined at 326 IAC 2-1.1-1(1).

B.12 Annual Compliance Certification [326 IAC 2-8-5(a)(1)]

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

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

- (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 2-8-4(3); and
 - (5) Such other facts, as specified in Sections D of this permit, as IDEM, OAQ may require to determine the compliance status of the source.

The submittal by the Permittee does require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

B.13 Preventive Maintenance Plan [326 IAC 1-6-3][326 IAC 2-8-4(9)][326 IAC 2-8-5(a)(1)]

- (a) If required by specific condition(s) in Section D of this permit, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMPs) within ninety (90) days after issuance of this permit, including the following information on each facility:
 - (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;
 - (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and
 - (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

If, due to circumstances beyond 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 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 the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (b) A copy of the PMPs shall be submitted to IDEM, OAQ upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or is the primary contributor to an exceedance of any limitation on emissions or

potential to emit. The PMPs do not require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

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

B.14 Emergency Provisions [326 IAC 2-8-12]

- (a) An emergency, as defined in 326 IAC 2-7-1(12), is not an affirmative defense for an action brought for noncompliance with a federal or state health-based emission limitation except as provided in 326 IAC 2-8-12.

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

- (1) An emergency occurred and the Permittee can, to the extent possible, identify the causes of the emergency;
- (2) The permitted facility was at the time being properly operated;
- (3) During the period of an emergency, the Permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards or other requirements in this permit;
- (4) For each emergency lasting one (1) hour or more, the Permittee notified IDEM, OAQ, within four (4) daytime business hours after the beginning of the emergency, or after the emergency was discovered or reasonably should have been discovered;

Telephone Number: 1-800-451-6027 (ask for Office of Air Quality,
Compliance Section), or
Telephone Number: 317-233-0178 (ask for Compliance Section)
Facsimile Number: 317-233-6865

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

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue
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 2-8-4(3)(C)(ii) and must contain the following:

- (A) A description of the emergency;

- (B) Any steps taken to mitigate the emissions; and
- (C) Corrective actions taken.

The notification which shall be submitted by the Permittee does not require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (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 2-8-3(c)(6) 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 2-8 and any other applicable rules.
 - (g) Operations may continue during an emergency only if the following conditions are met:
 - (1) If the emergency situation causes a deviation from a technology-based limit, the Permittee may continue to operate the affected emitting facilities during the emergency provided the Permittee immediately takes all reasonable steps to correct the emergency and minimize emissions.
 - (2) If an emergency situation causes a deviation from a health-based limit, the Permittee may not continue to operate the affected emissions facilities unless:
 - (A) The Permittee immediately takes all reasonable steps to correct the emergency situation and to minimize emissions; and
 - (B) Continued operation of the facilities is necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw material of substantial economic value.
- Any operations shall continue no longer than the minimum time required to prevent the situations identified in (g)(2)(B) of this condition.
- (h) The Permittee shall include all emergencies in the Quarterly Deviation and Compliance Monitoring Report.

B.15 Prior Permits Superseded [326 IAC 2-1.1-9.5]

- (a) All terms and conditions of permits established prior to F081-20601-00056 and issued pursuant to permitting programs approved into the state implementation plan have been either:
- (1) incorporated as originally stated,
 - (2) revised, or
 - (3) deleted.
- (b) All previous registrations and permits are superseded by this permit.

B.16 Termination of Right to Operate [326 IAC 2-8-9][326 IAC 2-8-3(h)]

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 2-8-3(h) and 326 IAC 2-8-9.

B.17 Deviations from Permit Requirements and Conditions [326 IAC 2-8-4(3)(C)(ii)]

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

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

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

The Quarterly Deviation and Compliance Monitoring Report does require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

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

B.18 Permit Modification, Reopening, Revocation and Reissuance, or Termination [326 IAC 2-8-4(5)(C)][326 IAC 2-8-7(a)][326 IAC 2-8-8]

- (a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a Federally Enforceable State 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 2-8-4(5)(C)] The notification by the Permittee does require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (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 2-8-8(a)]
- (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 2-8-8(b)]
- (d) The reopening and revision of this permit, under 326 IAC 2-8-8(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 2-8-8(c)]

B.19 Permit Renewal [326 IAC 2-8-3(h)]

- (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 2-8-3. Such information shall be included in the application for each emission unit at this source, except those emission units included on the trivial or insignificant activities list contained in 326 IAC 2-7-1(21) and 326 IAC 2-7-1(40). The renewal application does require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

Request for renewal shall be submitted to:

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

- (b) A timely renewal application is one that is:
 - (1) Submitted at least nine (9) months prior to the date of the expiration of this permit; and
 - (2) If the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, on or before the date it is due.
- (c) If the Permittee submits a timely and complete application for renewal of this permit, the source's failure to have a permit is not a violation of 326 IAC 2-8 until IDEM, OAQ takes final action on the renewal application, except that this protection shall cease to apply if, subsequent to the completeness determination, the Permittee fails to submit by the deadline specified in writing by IDEM, OAQ any additional information identified as being needed to process the application.

B.20 Permit Amendment or Revision [326 IAC 2-8-10][326 IAC 2-8-11.1]

- (a) Permit amendments and revisions are governed by the requirements of 326 IAC 2-8-10 or 326 IAC 2-8-11.1 whenever the Permittee seeks to amend or modify this permit.
- (b) Any application requesting an amendment or modification of this permit shall be submitted to:

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

Any such application shall be certified by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-8-10(b)(3)]

B.21 Operational Flexibility [326 IAC 2-8-15][326 IAC 2-8-11.1]

- (a) The Permittee may make any change or changes at the source that are described in 326 IAC 2-8-15(b) through (d) without a prior permit revision, if each of the following conditions is met:

- (1) The changes are not modifications under any provision of Title I of the Clean Air Act;
- (2) Any approval required by 326 IAC 2-8-11.1 has been obtained;
- (3) The changes do not result in emissions which exceed the limitations provided in this permit (whether expressed herein as a rate of emissions or in terms of total emissions);
- (4) The Permittee notifies the:

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

and

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

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

- (5) The Permittee maintains records on-site, on a rolling five (5) year basis, which document all such changes and emission trades that are subject to 326 IAC 2-8-15(b) through (d). 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 2-8-15(b)(2), (c)(1), and (d).

- (b) **Emission Trades [326 IAC 2-8-15(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 2-8-15(c).
- (c) **Alternative Operating Scenarios [326 IAC 2-8-15(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 2-8-4(7). No prior notification of IDEM, OAQ, or U.S. EPA is required.
- (d) **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.22 **Source Modification Requirement [326 IAC 2-8-11.1]**

A modification, construction, or reconstruction is governed by the requirements of 326 IAC 2 and 326 IAC 2-8-11.1.

B.23 **Inspection and Entry [326 IAC 2-8-5(a)(2)][IC 13-14-2-2][IC 13-17-3-2][IC13-30-3-1]**

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 FESOP 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, at reasonable times, 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, at reasonable times, 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, at reasonable times, 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.24 **Transfer of Ownership or Operational Control [326 IAC 2-8-10]**

- (a) The Permittee must comply with the requirements of 326 IAC 2-8-10 whenever the Permittee seeks to change the ownership or operational control of the source and no other change in the permit is necessary.
- (b) Any application requesting a change in the ownership or operational control of the source shall contain a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new Permittee. The application shall be submitted to:

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

The application which shall be submitted by the Permittee does require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-8-10(b)(3)]

B.25 Annual Fee Payment [326 IAC 2-7-19] [326 IAC 2-8-4(6)] [326 IAC 2-8-16][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) 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.26 Credible Evidence [326 IAC 2-8-4(3)][326 IAC 2-8-5][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

Emissions Limitations and Standards [326 IAC 2-8-4(1)]

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

Pursuant to 326 IAC 6-3-2(e)(2), particulate emissions from any process not exempt under 326 IAC 6-3-1(b) or (c) which has a maximum process weight rate less than 100 pounds per hour and the methods in 326 IAC 6-3-2(b) through (d) do not apply shall not exceed 0.551 pounds per hour.

C.2 Overall Source Limit [326 IAC 2-8]

The purpose of this permit is to limit this source's potential to emit to less than major source levels for the purpose of Section 502(a) of the Clean Air Act.

(a) Pursuant to 326 IAC 2-8:

- (1) The potential to emit any regulated pollutant, except particulate matter (PM), from the entire source shall be limited to less than one-hundred (100) tons per twelve (12) consecutive month period. This limitation shall also satisfy the requirements of 326 IAC 2-3 (Emission Offset);
- (2) The potential to emit any individual hazardous air pollutant (HAP) from the entire source shall be limited to less than ten (10) tons per twelve (12) consecutive month period; and
- (3) The potential to emit any combination of HAPs from the entire source shall be limited to less than twenty-five (25) tons per twelve (12) consecutive month period.

(b) The potential to emit particulate matter (PM) from the entire source shall be limited to less than two hundred fifty (250) tons per twelve (12) consecutive month period. This limitation shall make the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable.

(c) This condition shall include all emission points at this source including those that are insignificant as defined in 326 IAC 2-7-1(21). The source shall be allowed to add insignificant activities not already listed in this permit, provided that the source's potential to emit does not exceed the above specified limits.

(d) Section D of this permit contains independently enforceable provisions to satisfy this requirement.

C.3 Opacity [326 IAC 5-1]

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

- (a) Opacity shall not exceed an average of forty percent (40%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.

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

C.4 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.5 Incineration [326 IAC 4-2] [326 IAC 9-1-2(3)]

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

C.6 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).

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

The Permittee shall comply with the applicable provisions of 326 IAC 1-7 (Stack Height Provisions), for all exhaust stacks through which a potential (before controls) of twenty-five (25) tons per year or more of particulate matter or sulfur dioxide is emitted.

C.8 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M]

- (a) Notification requirements apply to each owner or operator. If the combined amount of regulated asbestos containing material (RACM) to be stripped, removed or disturbed is at least 260 linear feet on pipes or 160 square feet on other facility components, or at least thirty-five (35) cubic feet on all facility components, then the notification requirements of 326 IAC 14-10-3 are mandatory. All demolition projects require notification whether or not asbestos is present.
- (b) The Permittee shall ensure that a written notification is sent on a form provided by the Commissioner at least ten (10) working days before asbestos stripping or removal work or before demolition begins, per 326 IAC 14-10-3, and shall update such notice as necessary, including, but not limited to the following:
 - (1) When the amount of affected asbestos containing material increases or decreases by at least twenty percent (20%); or
 - (2) If there is a change in the following:
 - (A) Asbestos removal or demolition start date;
 - (B) Removal or demolition contractor; or
 - (C) Waste disposal site.
- (c) The Permittee shall ensure that the notice is postmarked or delivered according to the guidelines set forth in 326 IAC 14-10-3(2).
- (d) The notice to be submitted shall include the information enumerated in 326 IAC 14-10-3(3).

All required notifications shall be submitted to:

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

The notice shall include a signed certification from the owner or operator that the information provided in this notification is correct and that only Indiana licensed workers and project supervisors will be used to implement the asbestos removal project. The notifications do not require a certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (e) **Procedures for Asbestos Emission Control**
The Permittee shall comply with the applicable emission control procedures in 326 IAC 14-10-4 and 40 CFR 61.145(c). Per 326 IAC 14-10-1, emission control requirements are applicable for any removal or disturbance of RACM greater than three (3) linear feet on pipes or three (3) square feet on any other facility components or a total of at least 0.75 cubic feet on all facility components.
- (f) **Demolition and Renovation**
The Permittee shall thoroughly inspect the affected facility or part of the facility where the demolition or renovation will occur for the presence of asbestos pursuant to 40 CFR 61.145(a).
- (g) **Indiana Accredited Asbestos Inspector**
The Permittee shall comply with 326 IAC 14-10-1(a) that requires the owner or operator, prior to a renovation/demolition, to use an Indiana Accredited Asbestos Inspector to thoroughly inspect the affected portion of the facility for the presence of asbestos.

Testing Requirements [326 IAC 2-8-4(3)]

C.9 Performance Testing [326 IAC 3-6]

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

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

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

no later than thirty-five (35) days prior to the intended test date. The protocol submitted by the Permittee does not require certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14) days prior to the actual test date. The notification submitted by the Permittee does not require certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

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

Compliance Requirements [326 IAC 2-1.1-11]

C.10 Compliance Requirements [326 IAC 2-1.1-11]

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

Compliance Monitoring Requirements [326 IAC 2-8-4] [326 IAC 2-8-5(a)(1)]

C.11 Compliance Monitoring [326 IAC 2-8-4(3)] [326 IAC 2-8-5(a)(1)]

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

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

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

The notification which shall be submitted by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

Unless otherwise specified in the approval for the new emissions unit, compliance monitoring for new emission units or emission units added through a permit revision shall be implemented when operation begins.

C.12 Monitoring Methods [326 IAC 3] [40 CFR 60] [40 CFR 63]

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

C.13 Instrument Specifications [326 IAC 2-1.1-11] [326 IAC 2-8-4(3)][326 IAC 2-8-5(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 2-8-4] [326 IAC 2-8-5(a)(1)]

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

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

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

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

within 180 days from the date on which this source commences operation).

The ERP does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (c) If the ERP is disapproved by IDEM, OAQ, the Permittee shall have an additional thirty (30) days to resolve the differences and submit an approvable ERP.
- (d) These ERPs shall state those actions that will be taken, when each episode level is declared, to reduce or eliminate emissions of the appropriate air pollutants.
- (e) Said ERPs shall also identify the sources of air pollutants, the approximate amount of reduction of the pollutants, and a brief description of the manner in which the reduction will be achieved.
- (f) Upon direct notification by IDEM, OAQ, that a specific air pollution episode level is in effect, the Permittee shall immediately put into effect the actions stipulated in the approved ERP for the appropriate episode level. [326 IAC 1-5-3]

C.15 Risk Management Plan [326 IAC 2-8-4] [40 CFR 68]

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

C.16 Response to Excursions or Exceedances [326 IAC 2-8-4] [326 IAC 2-8-5]

- (a) Upon detecting an excursion or exceedance, the Permittee shall restore operation of the emissions unit (including any control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions.
- (b) The response shall include minimizing the period of any startup, shutdown or malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). Corrective actions may include, but are not limited to, the following:
 - (1) initial inspection and evaluation;
 - (2) recording that operations returned to normal without operator action (such as through response by a computerized distribution control system); or

- (3) any necessary follow-up actions to return operation to within the indicator range, designated condition, or below the applicable emission limitation or standard, as applicable.
- (c) A determination of whether the Permittee has used acceptable procedures in response to an excursion or exceedance will be based on information available, which may include, but is not limited to, the following:
 - (1) monitoring results;
 - (2) review of operation and maintenance procedures and records;
 - (3) inspection of the control device, associated capture system, and the process.
- (d) Failure to take reasonable response steps shall be considered a deviation from the permit.
- (e) The Permittee shall maintain the following records:
 - (1) monitoring data;
 - (2) monitor performance data, if applicable; and
 - (3) corrective actions taken.

C.17 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-8-4][326 IAC 2-8-5]

- (a) When the results of a stack test performed in conformance with Section C - Performance Testing, of this permit exceed the level specified in any condition of this permit, the Permittee shall take appropriate response actions. The Permittee shall submit a description of these response actions to IDEM, OAQ, within thirty (30) days of receipt of the test results. The Permittee shall take appropriate action to minimize excess emissions from the affected facility while the response actions are being implemented.
- (b) A retest to demonstrate compliance shall be performed within one hundred twenty (120) days of receipt of the original test results. Should the Permittee demonstrate to IDEM, OAQ that retesting in one hundred twenty (120) days is not practicable, IDEM, OAQ may extend the retesting deadline.
- (c) IDEM, OAQ reserves the authority to take any actions allowed under law in response to noncompliant stack tests.

The response action documents submitted pursuant to this condition do require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

Record Keeping and Reporting Requirements [326 IAC 2-8-4(3)]

C.18 General Record Keeping Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-5]

- (a) Records of all required monitoring data, reports and support information required by this permit shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. These records shall be physically present or electronically accessible at the source location for a minimum of three (3) years. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.

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

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

- (a) The Permittee shall submit the attached Quarterly Deviation and Compliance Monitoring Report or its equivalent. Any deviation from permit requirements, the date(s) of each deviation, the cause of the deviation, and the response steps taken must be reported. This report shall be submitted within thirty (30) days of the end of the reporting period. The Quarterly Deviation and Compliance Monitoring Report shall include the certification by the "authorized individual" as defined by 326 IAC2-1.1-1(1).

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

Indiana Department of Environmental Management
 Compliance 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) 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 "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (e) The first report covered the period commencing on the date of issuance of the original FESOP and ended on the last day of the reporting period. All subsequent reporting periods shall be 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.20 Compliance with 40 CFR 82 and 326 IAC 22-1

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

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

SECTION D.1

FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-8-4(10)]:

- (a) One (1) paint spray booth, identified as PB#1, constructed in 2005, controlled by dry particulate filters, exhausting to a stack identified as SPB-1 and venting to atmosphere, capacity; 120 engines per day, 36,000 engines per year.
- (b) Miscellaneous solvents and plant wide VOC containing material usage not covered elsewhere, identified as P001.

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

Emission Limitations and Standards [326 IAC 2-8-4(1)]

D.1.1 Particulate [326 IAC 6-3-2(d)]

Pursuant to 326 IAC 6-3-2(d), particulate from PB#1 shall be controlled by a dry particulate filter, and the Permittee shall operate the control device in accordance with the manufacturer's specifications.

D.1.2 Volatile Organic Compounds (VOC) [326 IAC 8-2-9]

Pursuant to 326 IAC 8-2-9, the owner or operator shall not allow the discharge into the atmosphere VOC in excess of three and five-tenths (3.5) pounds of VOC per gallon of coating, excluding water, as delivered to the applicator of PB#1.

D.1.3 Volatile Organic Compound (VOC) Limitations, Clean-up Requirements [326 IAC 8-2-9]

Pursuant to 326 IAC 8-2-9(f), all solvents sprayed from the application equipment of PB#1 during cleanup or color changes shall be directed into containers. Said containers shall be closed as soon as the solvent spraying is complete. In addition, all waste solvent shall be disposed of in such a manner that minimizes evaporation.

D.1.4 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for this facility and its control device.

Compliance Determination Requirements

D.1.5 Volatile Organic Compounds (VOC) [326 IAC 8-1-2][326 IAC 8-1-4]

Compliance with the VOC content limitation contained in Condition D.1.2 shall be determined pursuant to 326 IAC 8-1-4(a)(3) and 326 IAC 8-1-2(a) using formulation data supplied by the coating manufacturer. IDEM, OAQ reserves the authority to determine compliance using Method 24 in conjunction with the analytical procedures specified in 326 IAC 8-1-4.

Compliance Monitoring Requirements [326 IAC 2-8-4][326 IAC 2-8-5(a)(1)]

D.1.6 Monitoring

- (a) Daily inspections shall be performed to verify the placement, integrity and particle loading of the filters. To monitor the performance of the dry particulate filters, weekly observations shall be made of the overspray from the one (1) paint spray booth stack SPB-1 while the booth is in operation. If a condition exists which should result in a response step, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. Failure to take response steps in

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

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

Record Keeping and Reporting Requirement [326 IAC 2-8-4(3)] [326 IAC 2-8-16]

D.1.7 Record Keeping Requirements

- (a) To document compliance with Condition D.1.2, the Permittee shall maintain records in accordance with (1) through (4) below. Records maintained for (1) through (4) shall be taken as stated below and shall be complete and sufficient to establish compliance with the VOC usage limit established in Condition D.1.2.
 - (1) The VOC content of each coating material and solvent used, less water.
 - (2) The amount of coating material and solvent used on monthly basis.
 - (A) Records shall include purchase orders, invoices, and material safety data sheets (MSDS) necessary to verify the type and amount used.
 - (B) Solvent usage records shall differentiate between those added to coatings and those used as cleanup solvents;
 - (3) The cleanup solvent usage for each month.
 - (4) The total VOC usage for each month; and
 - (5) The weight of the VOCs emitted for each compliance period.
- (b) To document compliance with Condition D.1.6, the Permittee shall maintain a log of weekly overspray observations, daily and monthly inspections.
- (c) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

SECTION D.2

FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-8-4(10)]:

- (c) Cold solvent degreasing, collectively identified as P002.
 - (1) Ten (10) agitating cold solvent cleaners, identified as CC-1 – CC-6 and CC-8 – CC-11, installed in 2006, with a maximum capacity of 0.7 gallon per day, each.
 - (2) One (1) maintenance agitating cold solvent cleaner, identified as CC-7, installed in 2006, with a maximum capacity of 0.5 gallon per day.
 - (3) Three (3) cold solvent cleaning sinks with remote solvent reservoirs, identified as CC12 – CC14, installed in 2006, with a maximum capacity of 0.3 gallon per day, each.
 - (4) Five (5) agitating cold solvent cleaners, identified as AAC-1 – AAC-5, installed in 2006, with a maximum capacity of 0.6 gallon per day, each.
 - (5) Eight (8) calibration fluid cold solvent cleaners, identified as CCC-1 – CCC-8, installed in 2006, with a maximum capacity of 1.2 gallon per day, each.
 - (6) One (1) agitating cold solvent cleaner, identified as CC-170A, approved for construction in 2007, with a maximum capacity of 2.0 gallons per day.
- (i) Detergent parts washer, collectively identified as P008.
 - (1) One (1) three stage, detergent parts washer, identified as I-6 Parts Washer, approved for construction in 2007, using organic solvents.

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

Emission Limitations and Standards [326 IAC 2-8-4(1)]

D.2.1 Volatile Organic Compounds (VOC) [326 IAC 8-3-2]

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

- (a) Equip the cleaner with a cover;
- (b) Equip the cleaner with a facility for draining cleaned parts;
- (c) Close the degreaser cover whenever parts are not being handled in the cleaner;
- (d) Drain cleaned parts for at least fifteen (15) seconds or until dripping ceases;
- (e) Provide a permanent, conspicuous label summarizing the operation requirements;
- (f) Store waste solvent only in covered containers and not dispose of waste solvent or transfer it to another party, in such a manner that greater than twenty percent (20%) of the waste solvent (by weight) can evaporate into the atmosphere.

D.2.2 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 cleaner degreaser operations without remote solvent reservoirs constructed after July 1, 1990, the Permittee shall ensure that the following control equipment requirements are met:
- (1) Equip the degreaser with a cover. The cover must be designed so that it can be easily operated with one (1) hand if:
 - (A) The solvent volatility is greater than two (2) kiloPascals (fifteen (15) millimeters of mercury or three-tenths (0.3) pounds per square inch) measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F));
 - (B) The solvent is agitated; or
 - (C) The solvent is heated.
 - (2) Equip the degreaser with a facility for draining cleaned articles. If the solvent volatility is greater than four and three-tenths (4.3) kiloPascals (thirty-two (32) millimeters of mercury or six-tenths (0.6) pounds per square inch) measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F)), then the drainage facility must be internal such that articles are enclosed under the cover while draining. The drainage facility may be external for applications where an internal type cannot fit into the cleaning system.
 - (3) Provide a permanent, conspicuous label which lists the operating requirements outlined in subsection (b).
 - (4) The solvent spray, if used, must be a solid, fluid stream and shall be applied at a pressure which does not cause excessive splashing.
 - (5) Equip the degreaser with one (1) of the following control devices if the solvent volatility is greater than four and three-tenths (4.3) kiloPascals (thirty-two (32) millimeters of mercury or six-tenths (0.6) pounds per square inch) measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F)), or if the solvent is heated to a temperature greater than forty-eight and nine-tenths degrees Celsius (48.9°C) (one hundred twenty degrees Fahrenheit (120°F)):
 - (A) A freeboard that attains a freeboard ratio of seventy-five hundredths (0.75) or greater.
 - (B) A water cover when solvent is used is insoluble in, and heavier than, water.
 - (C) Other systems of demonstrated equivalent control such as a refrigerated chiller or carbon adsorption. Such systems shall be submitted to the U.S. EPA as a SIP revision.
- (b) Pursuant to 326 IAC 8-3-5(b) (Cold Cleaner Degreaser Operation and Control), for cold cleaning facility construction of which commenced after July 1, 1990, the Permittee 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 D.3

FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-8-4(10)]:

- (d) Natural gas combustion fired combustions sources, collectively identified as P003.
- (1) One (1) air make-up unit, installed in 2006, with a rated capacity of 10.40 million British thermal units per hour
 - (2) One (1) Cambridge air make-up unit, installed in 2006, with a rated capacity of 3 million British thermal units per hour.
 - (3) Two (2) Thermadeck air make-up units, installed in 2006, with a rated capacity of 5.83 million British thermal units per hour, each.
 - (4) Three (3) air curtains, installed in 2006, with a rated capacity of 9.5 million British thermal units per hour, each.
 - (5) One (1) office boiler, installed in 2006, with a rated capacity of 0.64 million British thermal units per hour
 - (6) Two (2) unit heaters, installed in 2006, with a rated capacity of 0.15 million British thermal units per hour, each.
 - (7) One (1) unit heater, installed in 2006, with a rated capacity of 0.06 million British thermal units per hour.
 - (8) One (1) break room/ training room furnace, installed in 2006, with a rated capacity of 0.4 million British thermal units per hour.
 - (9) One (1) office furnace, installed in 2006, with a rated capacity of 0.06 million British thermal units per hour.
 - (10) Eleven (11) infrared unit heaters, installed in 2006, with a rated capacity of 0.7 million British thermal units per hour, each.
 - (11) Three (3) infrared unit heaters, installed in 2006, with a rated capacity of 0.3 million British thermal units per hour.
 - (12) Two (2) engine block washers (#1 and #2), installed in 2006, with a rated capacity of 0.225 million British thermal units per hour, each.
 - (13) One (1) Disa Goff hydropulse parts washer, installed in 2006, with a rated capacity of 0.5 million British thermal units per hour.
 - (14) One (1) Hotsy spray washer, installed in 2006, with a rated capacity of 0.687 million British thermal units per hour.

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

Emission Limitations and Standards [326 IAC 2-8-4(1)]

D.3.1 Particulate Matter (PM) [326 IAC 6-2-4]

Pursuant to 326 IAC 6-2-4(a) (Particulate Matter Emission Limitations for Sources of Indirect Heating for Specified Facilities), the PM emissions from the one (1) office boiler rated at 0.64 million Btu per hour shall not exceed 0.6 pounds of particulate matter per million Btu heat input.

SECTION D.4

FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-8-4(10)]:

- (e) Eight (8) diesel-powered engine test cells (dynos), collectively identified as P004, with a combined capacity of 120 engines per day, 36,000 engines per year.
 - (1) Seven (7) diesel-powered engine test cells (dynos), individually identified as E-1 – E-6 and E-8, installed in 2006, each rated at a maximum output of 275 horsepower, individually exhausting to stacks identified as P004-1 – P004-6 and P004-8 and venting to the atmosphere.
 - (2) One (1) diesel-powered engine test cell (dyno), individually identified as E-7, approved for construction in 2007, rated at a maximum output of 600 horsepower, individually exhausting to stack P004-7 and venting to the atmosphere.

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

Emission Limitations and Standards [326 IAC 2-8-4(1)]

D.4.1 NOx FESOP Limit [326 IAC 2-8]

Pursuant to 326 IAC 2-8 the source has chosen to limit NOx emissions to below 100 tons per year. Therefore, 326 IAC 2-7 (Part 70 Permit Program) will not be applicable.

The source will be in compliance with this NOx limit by limiting the eight diesel-powered test cells (P004) to less than a total of sixty (60) tons of NOx per twelve (12) consecutive month period with compliance determined at the end of each month. P004 shall be limited as follows:

- (a) The potential to emit of NOx shall not exceed 0.47 pounds of NOx per gallon of diesel fuel.
- (b) The input of diesel fuel to the eight (8) diesel-powered engine test cells, known collectively as P004, shall be less than 252,920 gallons per twelve (12) consecutive month period with compliance determined at the end of each month.

These limitations equate to the emission rate E which has been established for P004 as follows:

Emission Unit	Emission Rate (lbs NOx/gal diesel fuel)	Annual Fuel Limit (gal)	NOx Emissions (tpy)
Dynos E-1 thru E-8	0.47	252,920	59.60

Compliance with this limit makes 326 IAC 2-2 Prevention of Significant Deterioration (PSD) not applicable. Compliance with this limit makes 326 IAC 2-3 (Emission Offset) not applicable.

Compliance Determination Requirements

D.4.2 Testing Requirements [326 IAC 2-8-1(a)(1),(4)][326 IAC 2-1.1-11]

Within one hundred and eighty (180) days after the initial startup, in order to demonstrate compliance with Condition D.4.1, the Permittee shall perform Nitrogen Oxides (NOx) testing for two (2) of the Diesel Powered Engine Test Cells (E-1 – E-8) utilizing methods as approved by the Commissioner. This test shall be repeated at least once every five (5) years from the date of this valid compliance demonstration in accordance with Section C- Performance Testing.

Compliance Monitoring Requirements [326 IAC 2-8-4] [326 IAC 2-8-5(a)(1)]

D.4.3 Visible Emissions Notations

- (a) Visible emission notations of the engine test cell stack exhausts shall be performed once per working day during normal daylight operations when exhausted to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.
- (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
- (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.
- (e) If abnormal emissions are observed, the Permittee shall take reasonable response steps in accordance with Section C- Response to Excursions or Exceedances. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances shall be considered a deviation from this permit.

Record Keeping and Reporting Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-16]

D.4.4 Record Keeping Requirements

- (a) To document compliance with Condition D.4.1, the Permittee shall maintain records for the engine test cells and engine attribute cells in accordance with (1) through (3) below.
 - (1) Calendar dates covered in the compliance determination period;
 - (2) Actual diesel fuel usage since last compliance determination period;
 - (3) A certification, signed by the owner or operator, that the records of the fuel supplier certifications represent all of the fuel combusted during the period.

The Permittee shall retain records of all recording/monitoring data and support information for a period of five (5) years, or longer if specified elsewhere in this permit, from the date of the monitoring sample, measurement, or report. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit.

- (b) To document compliance with Condition D.4.3, the Permittee shall maintain records of visible emission notations of the engine test cell stack exhausts once per working day during normal daylight operations when exhausted to the atmosphere.
- (c) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.4.5 Reporting Requirements

A quarterly summary of the information to document compliance with Condition D.4.1 shall be submitted to the address listed in Section C - General Reporting Requirements, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

SECTION D.5

FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-8-4(10)]:

- (f) Natural Gas Fired Burn-off Ovens with Afterburners, collectively identified as P005.
- (1) Five (5) Large Burn-off Ovens, identified as O-1, O-2, O-5, O-10, and O-11, installed in 2006, each rated at 1.2 million British thermal units per hour, each equipped with afterburners rated at 1.2 million British thermal units per hour, individually exhausting to stacks P005-1, P005-2, P005-5, P005-10, and P005-11 and venting to atmosphere, capacity; 4,000 pounds per hour of engine parts and 50 pounds per hour of oily residue, each.
 - (2) Two (2) Medium Burn-off Ovens, identified as O-6 and O-7, installed in 2006, each rated at 0.35 million British thermal units per hour, each equipped with afterburners rated at 0.35 million British thermal units per hour, individually exhausting to stacks P005-6 and P005-7 and venting to atmosphere, capacity; 2,500 pounds per hour of engine parts and 20 pounds per hour of oily residue, each.
 - (3) One (1) Small Burn-off Oven, identified as O-3, installed in 2006, rated at 0.2 million British thermal units per hour, equipped with an afterburner rated at 0.2 million British thermal units per hour, exhausting to stack P005-3 and venting to atmosphere, capacity; 200 pounds per hour of engine parts and 7 pounds per hour of oily residue.

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

D.5.1 Incinerators [326 IAC 4-2-2]

Pursuant to 326 IAC 4-2-2 (Incinerators: Requirements), the natural gas fired burn-off ovens (O-1, O-2, O-3, O-5, O-6, O-7, O-10 and O-11) shall comply with the following:

- (a) The incinerator shall comply with the following requirements:
 - (1) Consist of primary and secondary chambers or the equivalent.
 - (2) Be equipped with a primary burner unless burning only wood products.
 - (3) Comply with 326 IAC 5-1 and 326 IAC 2.
 - (4) Be maintained, operated, and burn waste in accordance with the manufacturer's specifications or an operation and maintenance plan as specified in paragraph (c) of this condition.
 - (5) Not emit particulate matter in excess of five-tenths (0.5) pound of particulate matter per one thousand (1,000) pounds of dry exhaust gas under standard conditions corrected to fifty percent (50%) excess air.
 - (6) If any of the requirements of (1) through (5) are not met, then the Permittee shall stop charging the incinerator until adjustments are made that address the underlying cause of the deviation.
- (b) A Permittee developing an operation and maintenance plan pursuant to paragraph (a)(4) of this condition must comply with the following:

- (1) The operation and maintenance plan must be designed to meet the particulate matter emission limitation specified in paragraph (a)(5) of this condition and include the following:
 - (A) Procedures for receiving, handling, and charging waste.
 - (B) Procedures for incinerator startup and shutdown.
 - (C) Procedures for responding to a malfunction.
 - (D) Procedures for maintaining proper combustion air supply levels.
 - (E) Procedures for operating the incinerator and associated air pollution control systems.
 - (F) Procedures for handling ash.
 - (G) A list of wastes that can be burned in the incinerator.
 - (2) Each incinerator operator shall review the plan before initial implementation of the operation and maintenance plan and annually thereafter.
 - (3) The operation and maintenance plan must be readily accessible to incinerator operators.
 - (4) The Permittee shall notify the department, in writing, thirty (30) days after the operation and maintenance plan is initially developed pursuant to this section.
- (c) The Permittee shall make the manufacturer's specifications or the operation and maintenance plan available to the department upon request.

D.5.2 Carbon monoxide Emission Limits [326 IAC 9-1-2]

Pursuant to 326 IAC 9-1-2(a)(3), the Permittee shall not operate burn-off ovens (O-1, O-2, O-3, O-5, O-6, O-7, O-10 and O-11) unless the waste gas stream is burned in one (1) of the following:

- (a) Direct-flame afterburner.
- (b) Secondary chamber.

SECTION D.6

FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-8-4(10)]:

- (g) Abrasive blasting and grinding, collectively identified as P006, as follows:
- (1) Two (2) steel shot abrasive blasting facilities, identified as SSB#2 and SSB#8, installed in 2006, each equipped with one (1) of two (2) dust collectors, both exhausting into the building, capacity; 72,000 pounds of abrasive per hour, each.
 - (2) One (1) steel shot abrasive blasting facilities, identified as SSB#1, installed in 2006, equipped with a dust collector, exhausting into the building, capacity; 72,000 pounds of abrasive per hour.
 - (3) One (1) steel shot abrasive blasting facility, identified as SSB#4, installed in 2006, equipped with one (1) dust collector, exhausting into the building, capacity; 24,000 pounds of abrasive per hour.
 - (4) One (1) steel shot abrasive blasting facility, identified as SSB#5, installed in 2006, equipped with one (1) dust collector, exhausting into the building, capacity; 36,000 pounds of abrasive per hour.
 - (5) One (1) steel shot abrasive blasting facility, identified as SSB#7, installed in 2006, equipped with a dust collector, exhausting into the building, capacity; 12,000 pounds of abrasive per hour.
 - (6) Six (6) pneumatic glass bead abrasive facilities, identified as GBB#4, GBB#5, GBB#6, GBB#7, GBB#8, and GBB#9, installed in 2006, each equipped with one (1) of six (6) dust collectors, exhausting into the building, capacity; 196.97 pounds of abrasive per hour, each.
 - (7) Three (3) pneumatic glass bead abrasive facilities, identified as GBB#1, GBB#2, and GBB#3, installed in 2006, each equipped with one (1) of three (3) dust collectors, exhausting into the building, capacity; 196.97 pounds of abrasive per hour, each.
 - (8) One (1) pneumatic glass bead abrasive facility, identified as GBB#10, installed in 2006, equipped with one (1) dust collector, exhausting into the building, capacity; 321.82 pounds of abrasive per hour, each.
 - (9) Two (2) pneumatic glass bead abrasive facilities, identified as GBB#11 and GBB#12, installed in 2006, each equipped with one (1) of two (2) dust collectors, exhausting into the building, capacity; 67.55 pounds of abrasive per hour, each.
 - (10) Two (2) manual plastic bead abrasive blasting facilities, identified as PBB#1 and PBB#6, installed in 2006, each equipped with one (1) of two (2) dust collectors, exhausting into the building, capacity; 212.12 pounds of abrasive per hour, each.
 - (11) Five (5) manual plastic bead abrasive blasting facilities, identified as PBB#2 through PBB#5 and PBB#7, installed in 2006, each equipped with one (1) of five (5) dust collectors, exhausting into the building, capacity; 128.79 pounds of abrasive per hour, each.
 - (12) One (1) grinding booth, identified as RB#1, installed in 2006, equipped with a dust collector, exhausting into the building, capacity; 480 pounds of engine parts per day.

(13) One (1) manual plastic bead abrasive blasting facility, identified as PBB#8, approved for construction in 2007, equipped with one (1) dust collector, exhausting into the building, capacity; 212.12 pounds of abrasive per hour.

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

Emission Limitations and Standards [326 IAC 2-8-4(1)]

D.6.1 FESOP Minor Limit Particulate Matter (PM10) [326 IAC 2-8] [326 IAC 2-2] [326 IAC 2-1.1-5]

Pursuant to 326 IAC 2-8 the source will limit source wide PM10 emissions to below 100 tons per year by limiting the pound per hour emissions of the controlled units. The controlled units shall be limited as follows:

Unit	PM10 Limit Per Unit (lb/hr)
SSB#7	0.68
SSB#4, SSB#5	0.80
SSB#2	1.83
SSB#1, SSB#8	1.60
GBB#1, GBB#2, GBB#3	0.02
GBB#4, GBB#5, GBB#6, GBB#7, GBB#8, GBB#9,	0.03
GBB#10, GBB#11, GBB#12	0.04
PBB#1, PBB#2	0.02
PBB#3, PBB#4, PBB#5, PBB#6, PBB#7	0.04
PBB#8	1.48
Total:	9.39

Compliance with these limits combined with the potential PM10 emissions from all other emission units at this source will limit the source-wide total potential to emit of PM10 to less than 100 tons per 12 consecutive month period and will render 326 IAC 2-7 (Part 70 Permits), 326 IAC 2-2 (PSD), and 326 IAC 2-1.1-5 (Air Quality Requirements) not applicable.

D.6.2 Particulate Matter (PM) [326 IAC 6-3-2] [326 IAC 2-2]

Pursuant to, 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes) the particulate emissions from abrasive blasting and grinding (P006) shall not exceed the pound per hour emission rate established as E in the following formula:

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

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

P = process weight rate in tons per hour

The emissions rate E has been established for the units as follows:

Units	Process Weight Rate per unit (tons/hour)	PM Emission Limit per unit (lbs/hr)
SSB#2, SSB#8	1	4.10
SSB#1	0.75	3.38
SSB#4, SSB#5	0.33	1.95
SSB#7	0.1	0.88
GBB#4, GBB#5, GBB#6, GBB#7, GBB#8, GBB#9	0.025	0.35

Units	Process Weight Rate per unit (tons/hour)	PM Emission Limit per unit (lbs/hr)
GBB#1, GBB#2, GBB#3	0.0125	0.22
GBB#10, GBB#11, GBB#12	0.025	0.35
PBB#1, PBB#6, PBB#8	0.36	2.07
PBB#2, PBB#3, PBB#4, PBB#5, PBB#7	0.015	0.246
RB#1	0.01	0.19
	Total	27.8

Compliance with these limits combined with the potential PM emissions from all other emission units at this source will limit the source-wide total potential to emit of PM to less than 250 tons per 12 consecutive month period and will render 326 IAC 2-2 (PSD) not applicable.

D.6.3 Particulate Control

- (a) In order to comply with Conditions D.6.1 and D.6.2, particulate from abrasive blasting and grinding manufacturing processes shall be controlled by dust collectors and the Permittee shall operate the control device in accordance with manufacturer's specifications.
- (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.

D.6.4 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

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

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

D.6.5 Visible Emissions Notations

- (a) Visible emission notations of the shot blast units at the point of exhaust shall be performed once per day during normal daylight operations when exhausting to the outside atmosphere. A trained employee shall record whether emissions are normal or abnormal.
- (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
- (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.
- (e) If abnormal emissions are observed, the Permittee shall take reasonable response steps in accordance with Section C- Response to Excursions or Exceedances. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances shall be considered a deviation from this permit.

D.6.6 Parametric Monitoring

The Permittee shall record the pressure drop across the dust collectors controlling the abrasive blasting, and grinding operations (SSB#1, SSB#2, SSB#4, SSB#5, SSB#7 and SSB#8, SB#1, GBB#1 - GBB#12, and PBB#1 – PBB#8), once per day when venting to the outside atmosphere. When for any one reading, the pressure drop across the dust collector is outside the normal range of 1.0 and 6.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C- Response to Excursions or Exceedances. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a deviation from this permit.

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

D.6.7 Dust Collector Failure Detection

- (a) For a single compartment baghouse controlling emissions from a process operated continuously, a failed unit and the associated process shall be shut down immediately until the failed unit has been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).
- (b) For a single compartment baghouse controlling emissions from a batch process, the feed to the process shall be shut down immediately until the failed unit has been repaired or replaced. The emissions unit shall be shut down no later than the completion of the processing of the material in the line. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

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

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

D.6.8 Record Keeping Requirements

- (a) To document compliance with Condition D.6.5, the Permittee shall maintain records of the daily visible emission notations of the shot blast stacks exhaust on days when the shot blasters are exhausting to the outside atmosphere. The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of visible emission notation (e.g., the process did not operate that day).
- (b) To document compliance with Condition D.6.6, the Permittee shall maintain records of the pressure drop across the dust collectors controlling the abrasive blasting, and grinding operations (SSB#1, SSB#2, SSB#4, SSB#5, SSB#7 and SSB#8, SB#1, GBB#1 - GBB#12, and PBB#1 – PBB#8), on days when the shot blasters are exhausting to the outside atmosphere. The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of visible emission notation (e.g., the process did not operate that day).
- (c) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF AIR QUALITY

FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP) CERTIFICATION

Source Name: Caterpillar Reman Powertrain, Indiana, Inc.
Source Address: 751 International Drive, Franklin, Indiana 46131
Mailing Address: 400 Forsythe Street, Franklin, Indiana 46131
FESOP No.: F081-20601-00056

**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:

Date:

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE BRANCH
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251
Phone: 317-233-0178
Fax: 317-233-6865**

**FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)
EMERGENCY OCCURRENCE REPORT**

Source Name: Caterpillar Reman Powertrain, Indiana, Inc.
Source Address: 751 International Drive, Franklin, Indiana 46131
Mailing Address: 400 Forsythe Street, Franklin, Indiana 46131
FESOP No.: F081-20601-00056

This form consists of 2 pages

Page 1 of 2

- This is an emergency as defined in 326 IAC 2-7-1(12)
- The Permittee must notify the Office of Air Quality (OAQ), within four (4) business hours (1-800-451-6027 or 317-233-5674, ask for Compliance Section); and
 - The Permittee must submit notice in writing or by facsimile within two (2) working days (Facsimile Number: 317-233-5967), and follow the other requirements of 326 IAC 2-7-16

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

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

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

Page 2 of 2

Date/Time Emergency started:
Date/Time Emergency was corrected:
Was the facility being properly operated at the time of the emergency? Y N Describe:
Type of Pollutants Emitted: TSP, PM-10, SO ₂ , VOC, NO _x , CO, Pb, other:
Estimated amount of pollutant(s) emitted during emergency:
Describe the steps taken to mitigate the problem:
Describe the corrective actions/response steps taken:
Describe the measures taken to minimize emissions:
If applicable, describe the reasons why continued operation of the facilities are necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw materials of substantial economic value:

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

A certification is not required for this report.

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

FESOP Quarterly Report

Source Name: Caterpillar Reman Powertrain, Indiana, Inc.
Source Address: 751 International Drive, Franklin, Indiana 46131
Mailing Address: 400 Forsythe Street, Franklin, Indiana 46131
FESOP No.: F081-20601-00056
Facility: Engine Test Cells E1 – E8 (P004)
Parameter: Diesel Fuel
Limit: 252,920 per twelve (12) consecutive month period

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: _____

Attach a signed certification to complete this report.

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

**FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)
QUARTERLY DEVIATION AND COMPLIANCE MONITORING REPORT**

Source Name: Caterpillar Reman Powertrain, Indiana, Inc.
Source Address: 751 International Drive, Franklin, Indiana 46131
Mailing Address: 400 Forsythe Street, Franklin, Indiana 46131
FESOP No.: F081-20601-00056

Months: _____ to _____ Year: _____

Page 1 of 2

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

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

Form Completed By: _____

Title/Position: _____

Date: _____

Phone: _____

Attach a signed certification to complete this report.

Appendix A: Emission Calculations
Summary of Emissions Before Modification

Company Name: Caterpillar Reman Powertrain Indiana, Inc.
Address City IN Zip: 751 International Drive, Franklin, IN 46131
Permit Number: 081-25507-00056
Reviewer: Brian Williams

Uncontrolled PTE Before Modification (tons/year)							
Process	PM	PM10	SO₂	NOx	VOC	CO	HAPs
Natural Gas Heaters and Washers (P003)	0.54	2.17	0.17	28.58	1.57	24.01	0.54
Burn-Off Oven w/ Afterburner (P005)	4.53	4.53	0.04	6.04	0.33	5.08	0.00
Abrasive Blasting (P006)	5187.24	4434.44	0.00	0.00	0.00	0.00	0.00
Cold Cleaning Degreasers (P002)	0.00	0.00	0.00	0.00	23.55	0.00	0.00
Engine Test Cells (P004)	0.00	10.60	9.88	116.50	9.55	32.18	0.49
Misc. Plant-wide (P001)	0.00	0.00	0.00	0.00	27.01	0.00	2.45
Welding (P007)	0.84	0.84	0.00	0.00	0.00	0.00	0.00
Surface Coating (PB#1)	26.50	26.50	0.00	0.00	11.80	0.00	9.77
Total	5219.65	4479.08	10.09	151.12	73.81	61.27	13.25

Limited PTE Before Modification (tons/year)							
Process	PM	PM10	SO₂	NOx	VOC	CO	HAPs
Natural Gas Heaters and Washers (P003)	0.54	2.17	0.17	28.58	1.57	24.01	0.54
Burn-Off Oven w/ Afterburner (P005)	4.53	4.53	0.04	6.04	0.33	5.08	0.00
Abrasive Blasting (P006)	112.70	34.65	0.00	0.00	0.00	0.00	0.00
Cold Cleaning Degreasers (P002)	0.00	0.00	0.00	0.00	23.55	0.00	0.00
Engine Test Cells (P004)	0.00	5.37	5.02	59.60	6.24	16.46	0.49
Misc. Plant-wide (P001)	0.00	0.00	0.00	0.00	27.01	0.00	2.45
Welding (P007)	0.84	0.84	0.00	0.00	0.00	0.00	0.00
Surface Coating (PB#1)	0.53	0.53	0.00	0.00	11.80	0.00	9.77
Total	119.14	48.09	5.23	94.23	70.50	45.55	13.25

**Appendix A: Emission Calculations
Summary of Emissions After Modification**

Company Name: Caterpillar Reman Powertrain Indiana, Inc.
Address City IN Zip: 751 International Drive, Franklin, IN 46131
Permit Number: 081-25507-00056
Reviewer: Brian Williams

Unlimited Potential to Emit of Modification (tons/year)							
	PM	PM10	SO₂	NO_x	VOC	CO	HAPs
Unlimited PTE of Surface Coating (PB#1) Before Modification	26.50	26.50	0.00	0.00	11.80	0.00	9.77
Unlimited PTE of Surface Coating (PB#1) After Modification	14.28	14.28	0.00	0.00	10.40	0.00	2.58
New Cold Cleaner (CC-170A)	0.00	0.00	0.00	0.00	2.41	0.00	0.048
New Parts Washer (I-6)	0.00	0.00	0.00	0.00	0.96	0.00	0.09
New Abrasive Blasting (PBB#8)	9.06	6.50	0.00	0.00	0.00	0.00	0.00
Unlimited PTE of Modification	23.34	20.78	0.00	0.00	13.77	0.00	2.72

Potential to Emit (PTE) After Issuance (tons/year)							
Process	PM	PM10	SO₂	NO_x	VOC	CO	HAPs
Natural Gas Heaters and Washers (P003)	0.54	2.17	0.17	28.58	1.57	24.01	0.54
Burn-Off Oven w/ Afterburner (P005)	4.53	4.53	0.04	6.04	0.33	5.08	0.00
Abrasive Blasting (P006)	121.76	41.15	0.00	0.00	0.00	0.00	0.00
Cold Cleaning Degreasers (P002)	0.00	0.00	0.00	0.00	25.96	0.00	0.048
Engine Test Cells (P004)	0.00	5.37	5.02	59.60	6.24	16.46	0.49
Misc. Plant-wide (P001)	0.00	0.00	0.00	0.00	27.01	0.00	2.45
Welding (P007)	0.84	0.84	0.00	0.00	0.00	0.00	0.00
Surface Coating (PB#1)*	0.71	0.71	0.00	0.00	10.40	0.00	2.58
Parts Washer (P008)	0.00	0.00	0.00	0.00	0.96	0.00	0.09
Total	128.39	54.78	5.23	94.23	72.47	45.55	6.20

*PM/PM10 PTE After Control

**Appendix A: Emission Calculations
Diesel Gas Fired Internal Combustion Engines
Emissions**

Company Name: Caterpillar Reman Powertrain Indiana, Inc.
Address City IN Zip: 751 International Drive, Franklin, IN 46131
Permit Number: 081-25507-00056
Reviewer: Brian Williams

Source: P004

Dyno	Heat Input (MMBtu/hr)	Rating (Hp)
E-1 to E-8 combined	7.700	1263

Pollutant Emissions Uncontrolled					
Pollutant	PM10	SO2	CO	¹⁾ NOx - assume 22% reduction	TOC
Emission Factor (lb/hp-hr)	2.20E-03	2.05E-03	6.68E-03	3.10E-02	2.54E-03
Emissions (lbs/hr)	2.78	2.59	8.43	30.53	2.50
Total Potential Emission (tpy) (E-1 to E-8)	12.17	11.34	36.94	133.71	10.96

Pollutant Emissions (Fuel Limitation)				
Pollutant	PM10	SO2	CO	TOC
Emission Factor (lb/mmbtu)	0.31	0.29	0.95	0.36
Annual Fuel consumption (gal) 252,920				
Heat Capacity of Fuel (btu/gal) 137,000				
Limited Potential Emission (tpy) (E-1 to E-8)	5.37	5.02	16.46	6.24

Pollutant	NOx
Emission Factor (lb/gal diesel fuel)	0.47
Annual Fuel consumption (gal): 252,920	
Limited Potential Emissions (tpy) (E-1 to E-8)	59.60

Rating calculated as follows: (7 dynos) (1 engine/cell) (275 hp-hr/engine) + (1 dyno) (1 engine/cell) (600 hp-hr/engine) (1/2 hour per test)
 Heat Input (MMBtu/hr) per engine per 1/2 duty cycle * 8 engines

Methodology

Emission Factors from AP-42, Chapter 3.3, Table 3.3-1, (Fifth Ed. 1996)

Particulate matter emissions are assumed to be in the form of PM10.

Potential Emissions Uncontrolled (lbs/hr) = Emission Factor * Rating (hp)

Potential Emissions Controlled (Fuel Limitation) (tpy) = Emission Factor (lb/mmbtu) * Annual Fuel Consumption (gal/yr) * (Heat Capacity of Fuel (btu/gal) * 1 mmbtu/1,000,000btu) / 2000 (lbs/tons)

Potential Emission Nox (22% reduction)

Maximum Fuel Rate per Dyno (gal/hr) = Heat input per cell (MMBtu/hr) * 1/ Heat Capacity of diesel fuel (MMBtu/gal)

= 0.963 MMBtu/hr * 1/0.137 MMBtu/gal = 7.03 gal/hr per Dyno

3.44 lb NOx/MMBtu conversion to an Emission factor in terms of lb NOx/gal diesel fuel

= 3.44 lb NOx/MMBtu * 0.137 MMBtu/gal diesel fuel = 0.47 lb NOx/gal diesel fuel

¹⁾ NOx emission factor was reduced by a factor of 22% to reflect inherently lower emission potential of turbocharged diesel engines. The engines being tested are designed to meet or exceed 1987 EPA national vehicle emission standards of 0.024 lb NOx/hp-hr or 3.44 lb NOx/MMBtu.

**Appendix A: Emission Calculations
Diesel Gas Fired Internal Combustion Engines
Emissions**

Company Name: Caterpillar Reman Powertrain Indiana, Inc.
Address City IN Zip: 751 International Drive, Franklin, IN 46131
Permit Number: 081-25507-00056
Reviewer: Brian Williams

Unit	Specific Heat Capacity of Diesel Fuel (Btu/gal)	Annual Fuel Limitation (gal/yr)
E-1 to E-8	137000	252920

HAPs Emissions - Uncontrolled		
Pollutant	Emission Factor (lbs/MMBtu)	Emissions (tpy)
1,3-Butadiene	3.91E-05	6.77E-04
Acetaldehyde	7.67E-04	1.33E-02
Acrolein	9.25E-05	1.60E-03
Benzene	9.33E-04	1.62E-02
Formaldehyde	1.18E-03	2.04E-02
PAH	1.68E-04	2.91E-03
Propylene	2.58E-03	4.47E-02
Toluene	4.09E-04	7.09E-03
Xylene	2.85E-04	4.94E-03
Total HAP Emissions		0.49 (tpy)

Methodology

Emission Factors are from AP-42, Chapter 3.3, Table 3.3-2, (Fifth Ed. 1996)

Potential Emissions (tpy) = Emission Factor (lb/mmbtu) * Annual Fuel Consumption (gal/yr) * Heat Capacity of Fuel (btu/gal) / 1,000,000 / 2000

**Appendix A: Emissions Calculations
VOC and Particulate
From Surface Coating Operations (PB#1)**

Company Name: Caterpillar Reman Powertrain Indiana, Inc.
Address City IN Zip: 751 International Drive, Franklin, IN 46131
Permit Number: 081-25507-00056
Reviewer: Brian Williams

PB#1																		
Material	Density (Lb/Gal)	Weight % Volatile (H2O & Organics)	Weight % Water	Weight % Organics	Volume % Water	Volume % Non-Volatiles (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)	% Glycol Ethers	Potential Glycol Ethers (tons per year)	% Triethylamine	Potential Triethylamine (tons per year)	Total HAPs (tons/yr)
280 Water Reducible Enamel	9.86	54.50%	39.7%	14.9%	47.0%	32.94%	0.2904	4.1	2.76	1.46	1.75	41.94	7.65	4.00%	2.06	1%	0.52	2.58
2-Butoxy-ethanol Reducer	7.51	100.00%	0.0%	100.0%	0.0%	0.00%	0.0203	4.1	7.51	7.51	0.63	15.04	2.74	0.00%	0.00	0%	0.00	0.00
Total											2.37	56.98	10.40		2.06		0.52	2.58

METHODOLOGY

Pounds of VOC per Gallon Coating less Water = (Density (lb/gal) * Weight % Organics) / (1-Volume % water)
Pounds of VOC per Gallon Coating = (Density (lb/gal) * Weight % Organics)
Potential VOC Pounds per Hour = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr)
Potential VOC Pounds per Day = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr) * (24 hr/day)
Potential VOC Tons per Year = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr) * (8760 hr/yr) * (1 ton/2000 lbs)
Potential HAPs Tons per Year = Density (lb/gal) * Gal of Mat. (gal/unit) * Maximum (units/hr) * % HAP * (8760 hr/yr) * (1 ton/2000 lbs)

Spray Paint Booth PM

Product	Density (Lb/Gal)	% Solids by Weight	Gal of Mat. (gal/unit)	Maximum (unit/hour)	Solids transfer efficiency	Uncontrolled PM/PM10 (lbs/day)	Uncontrolled PM/PM10 (tons/year)	PM Control Efficiency	Controlled PM/PM10 (lbs/day)	Controlled PM/PM10 (tons/year)
280 Water Reducible Enamel	9.86	45.54%	0.2904	5.00	50%	78.24	14.28	95%	3.91	0.71

METHODOLOGY

Uncontrolled PM/PM10 Pounds Per Day = Density (lb/gal) * % Solids by Weight * Gal of Mat. (gal/unit) * Maximum (units/hr) * (1- % Transfer Efficiency) * (24 hr/day)
Uncontrolled PM/PM10 Tons Per Year = Density (lb/gal) * % Solids by Weight * Gal of Mat. (gal/unit) * Maximum (units/hr) * (1- % Transfer Efficiency) * (8760 hr/yr) * (1 ton/2000 lbs)
Controlled PM/PM10 Pounds Per Day = Uncontrolled PM/PM10 (lbs/day) * (1-% Control Efficiency)
Controlled PM/PM10 Tons Per Year = Uncontrolled PM/PM10 (tons/yr) * (1-% Control Efficiency)

**Appendix A: Emissions Calculations
VOC and HAPs from Parts Washer**

Company Name: Caterpillar Reman Powertrain Indiana, Inc.
Address City IN Zip: 751 International Drive, Franklin, IN 46131
Permit Number: 081-25507-00056
Reviewer: Brian Williams

Product	Proposed Annual Usage * gallons	Estimated Loss to Evaporation %	Max Hours per Year	VOC	VOC	VOC	Glycol Ethers	
				lb/gal	lb/hr	ton/year	%	ton/yr
<i>16 Parts Washing Agent, as applied</i>								
Parco Cleaner HCS 10	9,360	2.0%	8760.00	0.00	0.00	0.00	0.00%	0.00
P3 Hot Stripper Additive 19	1,170	2.0%	8760.00	8.85	0.02	0.10	90.00%	0.09
Water	12,870	2.0%	8760.00	0.00	0.00	0.00	0.00%	0.00
<i>16 Parts Rinsing Agent, as applied</i>								
P3 Neutracare 5088	9,360	2.0%	8760.00	9.16	0.20	0.86	0.00%	0.00
Water	12,350	2.0%	8760.00	0.00	0.00	0.00	0.00%	0.00
Parts Washer Totals					0.22	0.96		0.09

Methodology

* Annual Usage is based on % by volume per tank multiplied by 26 tank replacements per year. Washing Tank is 900 gallons. Rinse Tank is 500 gallons.

The potential to emit (PTE) calculations for the parts washer were provided by the source in the permit application. The calculations were verified by IDEM, OAQ using the EPA's TANKS Version 4.09b program. The PTE of VOC's was calculated at less than 1 ton per year and the PTE of total HAPs was negligible.

$$\text{VOC (lb/hr)} = \text{Annual Usage (gal/yr)} * (\% \text{ Evaporation}) * \text{VOC (lb/gal)/8760 (hrs/yr)}$$

$$\text{VOC (ton/year)} = \text{VOC (lb/hr)} * 8760 \text{ (hrs/yr)} * 1/2000 \text{ (ton/lbs)}$$

$$\text{HAP (ton/yr)} = (\% \text{ HAP}) * \text{VOC (lb/hr)} * 8760 \text{ (hrs/yr)} * 1/2000 \text{ (ton/lbs)}$$

Appendix A: Emissions Calculations
Cold Cleaning Degreasers, Emission Unit P002

Company Name: Caterpillar Reman Powertrain Indiana, Inc.
Address City IN Zip: 751 International Drive, Franklin, IN 46131
Permit Number: 081-25507-00056
Reviewer: Brian Williams

Unit ID	Unit Description	Product Manufacturer	Number of Cold Cleaner Degreaser Units	Usage Per Degreaser (gal/day)	Density of Product VOC (lb/gal)	VOC Emissions (tpy)	HAP Naphthalene % wt.	HAP Naphthalene lb/hr	HAP Naphthalene tons/yr
CC-1 - CC-5	Agitating Cold Solvent Washer	Safety Kleen Premium Solvent	5	0.70	7.00	4.47	0.00	0.00	0.00
CC-6, CC-8 - CC-11	Agitating Cold Solvent Washer	Safety Kleen Premium Solvent	5	0.70	7.00	4.47	0.00	0.00	0.00
CC-12 - CC-14	Cold Solvent Wash Sink	Safety Kleen Premium Solvent	3	0.30	7.00	1.15	0.00	0.00	0.00
ACC1 - ACC5	Agitating Cold Solvent Washer	Safety Kleen Premium Solvent	5	0.60	7.00	3.83	0.00	0.00	0.00
CC-7	Agitating Cold Solvent Washer	Safety Kleen Premium Solvent	1	0.50	7.00	0.64	0.00	0.00	0.00
CCC-1 - CCC-8	Calibrating Fluid Cold Solvent Washer	Calibrating Fluid Wash	8	1.20	5.13	8.99	0.00	0.00	0.00
CC-170A (New)	Agitating Cold Solvent Washer	Petroleum HC Distillate, Solvent 170	1	2.00	6.59	2.41	2.00%	0.011	0.048
Totals:						25.96			0.048

METHODOLOGY

Potential VOC Tons per Year = No. of Degreaser Units * Usage per Degreaser (gals/day) * Density of Product (lb/gal) * (365 days/yr) * (1 ton / 2000 lbs)

Potential HAPs Tons per Year = Usage per Degreaser (gals/day) * Density (lb/gal) * % by wt. HAP * 365 (days/yr) * 1/2000 (ton/lbs)

**Appendix A: Emission Calculations
Abrasive Blasting - Confined**

Company Name: Caterpillar Reman Powertrain Indiana, Inc.
Address City IN Zip: 751 International Drive, Franklin, IN 46131
Permit Number: 081-25507-00056
Reviewer: Brian Williams

PBB#8 (New)

Table 1 - Emission Factors for Abrasives

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

Table 2 - Density of Abrasives (lb/ft3)

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

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

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

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

Calculations

Adjusting Flow Rates for Different Abrasives and Nozzle Diameters

Flow Rate (FR) = Abrasive flow rate (lb/hr) with internal nozzle diameter (ID)

FR1 = Sand flow rate (lb/hr) with internal nozzle diameter (ID1) From Table 3 =

D = Density of abrasive (lb/ft3) From Table 2 =

D1 = Density of sand (lb/ft3) =

ID = Actual nozzle internal diameter (in) =

ID1 = Nozzle internal diameter (in) from Table 3 =

420
50
99
0.3125
0.3125

Flow Rate (FR) (lb/hr) = 212.121 per nozzle

Uncontrolled Emissions (E, lb/hr)

EF = emission factor (lb PM / lb abrasive) From Table 1 =

FR = Flow Rate (lb/hr) =

w = fraction of time of wet blasting =

N = number of nozzles =

0.010
212.121
0 %
1

		PM10
Uncontrolled PM Emissions =	2.12 lb/hr	1.48
	9.29 ton/yr	6.50
Controlled PM Emissions =	0.021 lb/hr	0.015
	0.093 ton/yr	0.065

METHODOLOGY

Emission Factors from STAPPA/ALAPCO "Air Quality Permits", Vol. I, Section 3 "Abrasive Blasting" (1991 edition)

Ton/yr = lb/hr X 8760 hr/yr X ton/2000 lbs

Flow Rate (FR) (lb/hr) = FR1 x (ID/ID1)² x (D/D1)

E = EF x FR x (1-w/200) x N

w should be entered in as a whole number (if w is 50%, enter 50)