



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

Mitchell E. Daniels Jr.
Governor

Thomas W. Easterly
Commissioner

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

TO: Interested Parties / Applicant

DATE: November 14, 2008

RE: Parts Finishing Group - Indiana / 113-27000-00084

FROM: Matthew Stuckey, 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

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November 14, 2008

Ron Meyer
Parts Finishing Group-Indiana
210 South Progress Drive East
Kendallville, IN 46755

Re: F113-27000-00084
Second Administrative Amendment to
F113-20355-00084

Dear Mr. Meyer:

Parts Finishing Group-Indiana was issued a Federally Enforceable State Operating Permit (FESOP) No. F113-20355-00084 on July 8, 2005 for a stationary metal parts coating plant located at 210 South Progress Drive East, Kendallville, Indiana. On September 17, 2008, the Office of Air Quality (OAQ) received an application from the source relating to construction and operation of two (2) rotomat tumble spray coating units, identified as EU-12 and EU-13, and one (1) chain-on-edge spray coating unit, identified as EU-14. The addition of these units to the permit is considered an administrative amendment pursuant to 326 IAC 2-8-10(a)(14), since the modification adds emissions units of the same type that are already permitted and that will comply with the same applicable requirements and permit terms and conditions as the existing emission units. Attachment A illustrates the unlimited potential to emit (PTE) of the three (3) new spray coating units, EU-12 through EU-14, and the controlled PTE of the entire source after issuance of this administrative amendment. The entire source will continue to limit emissions in their Surface Coating Operations, including all Dip and Spray lines, as follows; Volatile Organic Compound (VOC) emissions to less than ninety-eight (< 98.0) tons per twelve (12) consecutive month period, Single Hazardous Air Pollutant (HAP) emissions to less than nine (< 9.0) tons per twelve (12) consecutive month period, and Total HAP emissions to less than twenty-four (< 24.0) tons per twelve (12) consecutive month period. These limits combined with VOC emissions from the insignificant activities, the VOC emissions from the entire source will continue to be limited to less than 100 tons/yr. Additionally, these limits combined with the HAP emissions from the insignificant activities, the HAP emissions from the entire source will continue to be limited to less than 10 tons/yr for a single HAP and less than 25 tons/yr. Therefore, rendering the requirements of 326 IAC 2-7 (Part 70 Program), 326 IAC 2-2 (PSD), 40 CFR 63, Subpart M, and 40 CFR 63, Subpart DDDDD not applicable.

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)]

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

...

- (b) Three (3) spray coating lines, identified as EU-03, EU-04, and EU-05, to be constructed in 2005, ~~and~~ three (3) spray coating lines, identified as EU-09, EU-10, and EU-11 approved for construction in 2007, **and three (3) spray coating lines, identified as EU-12, EU-13, and EU-14 approved for construction in 2008**, applying coatings to automobile metal parts, equipped with HVLP spray guns, using dry filters for particulate control and using catalytic oxidizer EU-07 for VOC and HAP control, and exhausting to stack 1.

...

SECTION D.1 FACILITY OPERATION CONDITIONS

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

...

- (b) Three (3) spray coating lines, identified as EU-03, EU-04, and EU-05, to be constructed in 2005, and three (3) spray coating lines, identified as EU-09, EU-10, and EU-11 approved for construction in 2007, and **three (3) spray coating lines, identified as EU-12, EU-13, and EU-14 approved for construction in 2008**, applying coatings to automobile metal parts, equipped with HVLP spray guns, using dry filters for particulate control and using catalytic oxidizer EU-07 for VOC and HAP control, and exhausting to stack 1.

...

D.1.5 FESOP [326 IAC 2-8-4][326 IAC 2-2][40 CFR 63, Subpart M][40 CFR 63, Subpart D]

- (a) The emissions from the dip coating operations (EU-01 and EU-02) and the spray coating lines (EU-03, EU-04, EU-05, and EU-9, EU-10, and EU-11, **EU-12, EU-13, and EU-14**) shall be controlled by catalytic oxidizer EU-07 with a destruction efficiency of at least 95%.

...

- (c) The capture efficiency for each of the spray coating lines (EU-03, EU-04, EU-05, and EU-09, EU-10, and EU-11, **EU-12, EU-13, and EU-14**) shall be at least 85%.

...

- (d) The VOC emissions from the coating operations EU-01 through EU-05, and **EU-09 through EU-14**, shall not exceed 98.0 tons per twelve (12) consecutive month period with compliance determined at the end of each month. The monthly VOC emissions from these coating operations shall be calculated as follows:

...

- (e) Emissions for any single HAP from the dip coating operations (EU-01 and EU-02) and the spray coating lines (EU-03, EU-04, and EU-05, **EU-09, EU-10, EU-11, EU-12, EU-13, and EU-14**) shall not exceed 9.0 tons per twelve (12) consecutive month period with compliance determined at the end of each month. The monthly emissions for an individual HAP shall be calculated using the following equation:

...

- (f) Total HAPs emissions from the from the dip coating operations (EU-01 and EU-02) and the spray coating lines (EU-03, EU-04, and EU-05, **EU-09, EU-10, EU-11, EU-12, EU-13, and EU-14**) shall not exceed 24.0 tons per twelve (12) consecutive month period with compliance determined at the end of each month. The total monthly HAP emissions shall be determined using the following equation:

...

D.1.6 Volatile Organic Compound (VOC) Content Limitations [326 IAC 8-2-9]

...

- (b) Pursuant to 326 IAC 8-1-2 (b), the VOC emissions from the coating operations EU-01 through EU-05, EU-09, EU-10, and EU-11, **EU-12, EU-13, and EU-14**, shall be limited to no greater than the equivalent emissions, expressed as pounds of VOC per gallon of coating solids, allowed in (a).

...

D.1.7 Particulate Matter [40 CFR 52 Subpart P]

Pursuant to 40 CFR 52 Subpart P, the particulate matter from each of the spray coating lines EU-03, EU-04, EU-05, EU-09, EU-10, and EU-11, **EU-12, EU-13, and EU-14** shall not exceed the pound per hour emission rate established as E in the following formula:

...

D.1.8 Particulate Control [326 IAC 6-3-2(d)]

Pursuant to 326 IAC 6-3-2(d), particulate from the spray coating lines EU-03, EU-04, EU-05, EU-09, EU-10, ~~and EU-11~~, **EU-12, EU-13, and EU-14** shall be controlled by dry particulate filters, and the Permittee shall operate the control device in accordance with manufacturer's specifications.

...

D.1.10 Volatile Organic Compounds (VOC)

In order to comply with Conditions D.1.5 and D.1.6, the catalytic oxidizer EU-07 shall be in operation and control emissions from the dip coating operations (EU-01 and EU-02) and the spray coating lines (EU-03, EU-04, EU-05, EU-09, EU-10, ~~and EU-11~~, **EU-12, EU-13, and EU-14**) at all times that these units are in operation.

...

D.1.12 Testing Requirements [326 IAC 2-8-5(a)(1), (4)] [326 IAC 2-1.1-11]

Within 60 days after achieving the maximum production, but no later than 180 days after initial startup, the Permittee shall perform the following tests:

...

- (c) In order to demonstrate compliance with Conditions D.1.5(c) and D.1.6(d), the Permittee shall conduct a performance test to determine the capture efficiencies for the spray coating lines EU-03, EU-04, EU05, EU-09, EU-10, ~~and EU-11~~, **EU-12, EU-13, and EU-14** utilizing methods as approved by the Commissioner.

...

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

FESOP Quarterly Report

Source Name: Parts Finishing Group – Indiana
Source Address: 210 South Progress Drive East, Kendallville, Indiana 46755
Mailing Address: 24600 Industrial Highway, Warren, Michigan 48089
FESOP No.: F113-20355-00084
Facility: Coating Operations EU-01 through EU-05 and EU-09, ~~EU-10 and EU-11~~
through EU-14
Parameter: VOC Emissions
Limit: Less than 98.0 tons per twelve (12) consecutive month period with compliance determined at the end of each month.

...

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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Source Name: Parts Finishing Group – Indiana
Source Address: 210 South Progress Drive East, Kendallville, Indiana 46755
Mailing Address: 24600 Industrial Highway, Warren, Michigan 48089
FESOP No.: F113-20355-00084
Facility: Coating Operations EU-01 through EU-05 and EU-09, ~~EU-10 and EU-11~~
through EU-14
Parameter: Single HAP Emissions

Limit: Less than 9.0 tons per twelve (12) consecutive month period with compliance determined at the end of each month.

...

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

FESOP Quarterly Report

Source Name: Parts Finishing Group – Indiana
Source Address: 210 South Progress Drive East, Kendallville, Indiana 46755
Mailing Address: 24600 Industrial Highway, Warren, Michigan 48089
FESOP No.: F113-20355-00084
Facility: Coating Operations EU-01 through EU-05 and EU-09, ~~EU-10 and EU-11~~
through EU-14
Parameter: Total HAP Emissions
Limit: Less than 24.0 tons per twelve (12) consecutive month period with compliance determined at the end of each month.

...

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

A copy of the permit is available on the Internet at: <http://www.in.gov/ai/appfiles/idem-caats/>. For additional information about air permits and how the public and interested parties can participate, refer to the IDEM's Guide for Citizen Participation and Permit Guide on the Internet at: www.idem.in.gov

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 Hannah Desrosiers, of my staff, at 317-234-5374 or 1-800-451-6027, and ask for extension 4-5374.

Sincerely,

Original Signed By:

Iryn Calilung, Section Chief
Permits Branch
Office of Air Quality

Attachments: Attachment A - Emissions Calculations, Updated Permit

IC/hd

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



Mitchell E. Daniels, Jr.
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Indianapolis, Indiana 46204
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FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP) OFFICE OF AIR QUALITY

**Parts Finishing Group – Indiana
210 South Progress Drive East
Kendallville, Indiana 46755**

(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.

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.: F113-20355-00084	
Original signed by: Paul Dubenetzky, Chief Permits Branch Office of Air Quality	Issuance Date: July 8, 2005 Expiration Date: July 8, 2010
First Administrative Amendment No.: F113-25449-00084, issued: December 21, 2007	
Second Administrative Amendment No.: F113-27000-00084	Affected Pages: 5, 24-27, & 36-38
Issued by: <i>Original signed by</i> Iryn Calilung, Section Chief Office of Air Quality	Issuance Date: November 14, 2008 Expiration Date: July 8, 2010

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[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]
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Construction Conditions

General Construction Conditions

- D.1.1 Permit No Defense
- D.1.2 Federally Enforceable State Operating Permit [326 IAC 2-8]

Effective Date of the Permit

- D.1.3 Effective Date of the Permit [IC13-15-5-3]
- D.1.4 Modification to Construction Conditions [326 IAC 2]

Operation Conditions

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

- D.1.5 FESOP [326 IAC 2-8-4][326 IAC 2-2][40 CFR 63, Subpart MMMM][40 CFR 63, Subpart DDDDD]
- D.1.6 Volatile Organic Compound (VOC) Content Limitations [326 IAC 8-2-9]
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Emission Limitations and Standards [326 IAC 2-8-4(1)]

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

Certification Form 33

Emergency Occurrence Form 34

Quarterly Report Form 36-38

Quarterly Deviation and Compliance Monitoring Report Form 39

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 metal parts coating plant.

Source Address:	210 South Progress Drive East, Kendallville, Indiana 46755
Mailing Address:	24600 Industrial Highway, Warren, Michigan 48089
General Source Phone:	(586) 759-3559
SIC Code:	3479
County Location:	Noble County
Source Location Status:	Attainment for all criteria pollutants
Source Status:	Federally Enforceable State Operating Permit (FESOP) Minor Source, under PSD Rules; Minor Source, Section 112 of the Clean Air Act Not 1 of 28 Source Categories

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

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

- (a) Two (2) dip coating operations, identified as EU-01 and EU-02, to be constructed in 2005, applying coatings to automobile metal parts, controlled by catalytic oxidizer EU-07, and exhausting to stack 1.
- (b) Three (3) spray coating lines, identified as EU-03, EU-04, and EU-05, to be constructed in 2005, three (3) spray coating lines, identified as EU-09, EU-10, and EU-11 approved for construction in 2007, and three (3) spray coating lines, identified as EU-12, EU-13, and EU-14 approved for construction in 2008, applying coatings to automobile metal parts, equipped with HVLP spray guns, using dry filters for particulate control and using catalytic oxidizer EU-07 for VOC and HAP control, and exhausting to stack 1.

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) Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) Btu per hour, including the following:
 - (1) One (1) natural gas fired boiler, to be constructed in 2005, with a maximum heat input capacity of 5.0 MMBtu/hr. [326 IAC 6-2-4]
 - (2) One (1) natural gas fired oven, to be constructed in 2005, used in conjunction with the dip coating operation EU-01, with a maximum heat input capacity of 1.0 MMBtu/hr.
 - (3) One (1) natural gas fired oven, to be constructed in 2005, used in conjunction with the dip coating operation EU-02, with a maximum heat input capacity of 2.0 MMBtu/hr.
 - (4) Two (2) natural gas fired ovens, to be constructed in 2005, equipped with spray coating operations EU-04 and EU05, each with a maximum heat input capacity of 0.5 MMBtu/hr.

- (b) Combustion source flame safety purging on startup.
- (c) Machining where an aqueous cutting coolant continuously floods the machining interface.
- (d) Closed loop heating and cooling systems.
- (e) Solvent recycling systems with batch capacity less than or equal to 100 gallons.
- (f) Any operation using aqueous solutions containing less than 1% by weight of VOCs excluding HAPs.
- (g) Replacement or repair of electrostatic precipitators, bags in baghouses and filters in other air filtration equipment.
- (h) Paved and unpaved roads and parking lots with public access.
- (i) Blowdown for any of the following: sight glass; boiler; compressors; pumps; and cooling tower.
- (j) On-site fire and emergency response training approved by the department.
- (k) Filter or coalescer media changeout.
- (l) Other emission units, not regulated by a NESHAP, with PM₁₀, NO_x, and SO₂ emissions less than five (5) pounds per hour or twenty-five (25) pounds per day, CO emissions less than twenty-five (25) pounds per day, VOC emissions less than three (3) pounds per hour or fifteen (15) pounds per day, lead emissions less than six-tenths (0.6) tons per year or three and twenty-nine hundredths (3.29) pounds per day, and emitting greater than one (1) pound per day but less than five (5) pounds per day or one (1) ton per year of a single HAP, or emitting greater than one (1) pound per day but less than twelve and five tenths (12.5) pounds per day or two and five tenths (2.5) ton per year of any combination of HAPs:
 - (1) One (1) steel shot blast machine, identified as EU-08, to be constructed in 2005, with a maximum abrasive usage of 5.0 pounds per hour and the maximum throughput rate of 5,000 pounds of metal parts per hour, controlled by a dust collector. [326 IAC 6-3-2]
 - (2) One (1) parts washer with acid and base cycles, identified as EU-06, to be constructed in 2005, with a maximum usage of 15 gallons per hour of 31.4% hydrochloric acid solution.

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).

A.5 Prior Permits Superseded [326 IAC 2-1.1-9.5]

- (a) All terms and conditions of previous permits issued pursuant to permitting programs approved into the state implementation plan have been either
 - (1) incorporated as originally stated,
 - (2) revised, or

(3) deleted

by this permit.

(b) All previous registrations and permits are superseded by this permit.

SECTION B GENERAL CONDITIONS

B.1 Permit No Defense [IC 13]

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.

B.2 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.3 Permit Term [326 IAC 2-8-4(2)] [326 IAC 2-1.1-9.5]

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

B.4 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.5 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.6 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.7 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.8 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 the "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.9 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.10 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.11 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 in letter form no later than July 1 of each year to:

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

- (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, IDEM, OAQ, may require to determine the compliance status of the source.

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).

B.12 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

The PMP extension notification does not require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (b) The Permittee shall implement the PMPs, including any required record keeping, as necessary to ensure that failure to implement a PMP does not cause or contribute to an exceedance of any limitation on emissions or potential to emit.
- (c) A copy of the PMPs shall be submitted to IDEM, OAQ, upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ,. IDEM, OAQ, may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or is the primary contributor to an exceedance of any limitation on emissions or potential to emit. The PMP does not require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (d) To the extent the Permittee is required by 40 CFR Part 60/63 to have an Operation, Maintenance, and Monitoring (OMM) Plan for a unit, such Plan is deemed to satisfy the PMP requirements of 326 IAC 1-6-3 for that unit.

B.13 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 describes the following:
 - (1) An emergency occurred and the Permittee can, to the extent possible, identify the causes of the emergency;
 - (2) The permitted facility was at the time being properly operated;
 - (3) During the period of an emergency, the Permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards or other requirements in this permit;
 - (4) For each emergency lasting one (1) hour or more, the Permittee notified IDEM, OAQ and the Northern Regional Office, within four (4) daytime business hours after the beginning of the emergency, or after the emergency was discovered or reasonably should have been discovered;

IDEM:

Telephone No.: 1-800-451-6027 (ask for Office of Air Quality, Compliance Section) or,

Telephone No.: 317-233-0178 (ask for Compliance Section)
Facsimile No.: 317-233-6865

Northern Regional Office:
Telephone No.: 1-800-753-5519, or
Telephone No.: 219-245-4870
Facsimile No.: 219-245-4877

- (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

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 the "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) 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.14 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 Provision), 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

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

The Quarterly Deviation and Compliance Monitoring Report does require the certification by the “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.15 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 FESOP 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 the “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.16 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 the “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

- (b) Timely Submittal of Permit Renewal [326 IAC 2-8-3]
- (1) A timely renewal application is one that is:
- (A) Submitted at least nine (9) months prior to the date of the expiration of this permit; and
- (B) If the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, on or before the date it is due.
- (2) If IDEM, OAQ upon receiving a timely and complete permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect until the renewal permit has been issued or denied.
- (c) Right to Operate After Application for Renewal [326 IAC 2-8-9]
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 needed to process the application.

B.17 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

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

- (c) The Permittee may implement the administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-8-10(b)(3)]
- (d) No permit amendment or modification is required for the addition, operation or removal of a nonroad engine, as defined in 40 CFR 89.2.

B.18 Operational Flexibility [326 IAC 2-8-15][326 IAC 2-8-11.1]

(a) The Permittee may make any change or changes at this source that are described in 326 IAC 2-8-15(b) through (d), without 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 emissions allowable under this permit (whether expressed herein as a rate of emissions or in terms of total emissions);
- (4) The Permittee notifies the:

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

and

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

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

- (5) The Permittee maintains records on-site which document, on a rolling five (5) year basis, all such changes and emissions trading that are subject to 326 IAC 2-8-15(b) through (d) and makes such records available, upon reasonable request, to 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 increases and decreases in emissions in the source, where the applicable SIP provides for such emission trades without requiring a permit revision, subject to the constraints of Section (a) of this condition and those in 326 IAC 2-8-15(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.19 Permit Revision 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.20 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.21 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

The application 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).

- (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.22 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.23 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 [40 CFR 52 Subpart P][326 IAC 6-3-2]

- (1) Pursuant to 40 CFR 52 Subpart P, particulate matter emissions from any process not already regulated by 326 IAC 6-1 or any New Source Performance Standard, and which has a maximum process weight rate less than 100 pounds per hour shall not exceed 0.551 pounds per hour.
- (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 make the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable;
 - (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) 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.
- (c) 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 Operation of Equipment [326 IAC 2-8-5(a)(4)]

Except as otherwise provided by statute, rule or in this permit, all air pollution control equipment listed in this permit and used to comply with an applicable requirement shall be operated at all times that the emission units vented to the control equipment are in operation.

C.8 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.9 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

The notice shall include a signed certification from the owner or operator that the information provided in this notification is correct and that only Indiana licensed workers and project supervisors will be used to implement the asbestos removal project. The notifications do not require a certification by the "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.10 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

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.11 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.12 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) days of permit issuance. If required by Section D, the Permittee shall be responsible for installing any necessary equipment and initiating any required monitoring related to that equipment. If due to circumstances beyond its control, that equipment cannot be installed and operated within ninety (90) days, the Permittee may extend the compliance schedule related to the equipment for an additional ninety (90) days provided the Permittee notifies:

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

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.13 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.14 Pressure Gauge and Other Instrument Specifications [326 IAC 2-1.1-11] [326 IAC 2-8-4(3)] [326 IAC 2-8-5(1)]

(a) Whenever a condition in this permit requires the measurement of a temperature, the instrument employed shall have a scale such that the expected normal reading shall be no less than twenty percent (20%) of full scale and be accurate within plus or minus two percent ($\pm 2\%$) of full scale reading.

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

Corrective Actions and Response Steps [326 IAC 2-8-4] [326 IAC 2-8-5(a)(1)]

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 Compliance Response Plan - Preparation, Implementation, Records, and Reports [326 IAC 2-8-4]
[326 IAC 2-8-5]

- (a) The Permittee is required to prepare a Compliance Response Plan (CRP) for each compliance monitoring condition of this permit. A CRP shall be submitted to IDEM, OAQ upon request. The CRP shall be prepared within ninety (90) days after issuance of this permit by the Permittee, supplemented from time to time by the Permittee, maintained on site, and is comprised of:
- (1) Reasonable response steps that may be implemented in the event that a response step is needed pursuant to the requirements of Section D of this permit; and an expected time frame for taking reasonable response steps.
 - (2) If, at any time, the Permittee takes reasonable response steps that are not set forth in the Permittee's current Compliance Response Plan and the Permittee documents such response in accordance with subsection (e) below, the Permittee shall amend its Compliance Response Plan to include such response steps taken.
- (b) For each compliance monitoring condition of this permit, reasonable response steps shall be taken when indicated by the provisions of that compliance monitoring condition as follows:
- (1) Reasonable response steps shall be taken as set forth in the Permittee's current Compliance Response Plan; or
 - (2) If none of the reasonable response steps listed in the Compliance Response Plan is applicable or responsive to the excursion, the Permittee shall devise and implement additional response steps as expeditiously as practical. Taking such additional response steps shall not be considered a deviation from this permit so long as the Permittee documents such response steps in accordance with this condition.
 - (3) If the Permittee determines that additional response steps would necessitate that the emissions unit or control device be shut down, and it will be ten (10) days or more until the unit or device will be shut down, then the Permittee shall promptly notify the IDEM, OAQ of the expected date of the shut down. The notification shall also include the status of the applicable compliance monitoring parameter with respect to normal, and the results of the response actions taken up to the time of notification.
 - (4) Failure to take reasonable response steps shall be considered a deviation from the permit.
- (c) The Permittee is not required to take any further response steps for any of the following reasons:
- (1) A false reading occurs due to the malfunction of the monitoring equipment and prompt action was taken to correct the monitoring equipment.
 - (2) The Permittee has determined that the compliance monitoring parameters established in the permit conditions are technically inappropriate, has previously submitted a request for an administrative amendment to the permit, and such request has not been denied.
 - (3) An automatic measurement was taken when the process was not operating.
 - (4) The process has already returned or is returning to operating within "normal" parameters and no response steps are required.

- (d) When implementing reasonable steps in response to a compliance monitoring condition, if the Permittee determines that an exceedance of an emission limitation has occurred, the Permittee shall report such deviations pursuant to Section B-Deviations from Permit Requirements and Conditions.
- (e) The Permittee shall record all instances when response steps are taken. In the event of an emergency, the provisions of 326 IAC 2-8-12 (Emergency Provisions) requiring prompt corrective action to mitigate emissions shall prevail.
- (f) Except as otherwise provided by a rule or provided specifically in Section D, all monitoring as required in Section D shall be performed when the emission unit is operating, except for time necessary to perform quality assurance and maintenance activities.

C.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 source 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 IAC 2-1.1-1(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

- (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) Two (2) dip coating operations, identified as EU-01 and EU-02, to be constructed in 2005, applying coatings to automobile metal parts, controlled by catalytic oxidizer EU-07, and exhausting to stack 1.
- (b) Three (3) spray coating lines, identified as EU-03, EU-04, and EU-05, to be constructed in 2005, three (3) spray coating lines, identified as EU-09, EU-10, and EU-11 approved for construction in 2007, and three (3) spray coating lines, identified as EU-12, EU-13, and EU-14 approved for construction in 2008, applying coatings to automobile metal parts, equipped with HVLP spray guns, using dry filters for particulate control and using catalytic oxidizer EU-07 for VOC and HAP control, and exhausting to stack 1.

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

THIS SECTION OF THE PERMIT IS BEING ISSUED UNDER THE PROVISIONS OF 326 IAC 2-1 AND 326 IAC 2-8-11.1, WITH CONDITIONS LISTED BELOW.

CONSTRUCTION CONDITIONS

General Construction Conditions

D.1.1 Permit No Defense

This permit to construct does not relieve the Permittee of the responsibility to comply with the provisions of the Indiana Environmental Management Law (IC 13-11 through 13-20; 13-22 through 13-25; and 13-30), the Air Pollution Control Law (IC 13-17) and the rules promulgated thereunder, as well as other applicable local, state, and federal requirements.

D.1.2 Federally Enforceable State Operating Permit [326 IAC 2-8]

The attached Affidavit of Construction shall be submitted to the Office of Air Quality (OAQ), Permit Administration & Development Section, verifying that the emission units were constructed as proposed in the application.

Effective Date of the Permit

D.1.3 Effective Date of the Permit [IC13-15-5-3]

Pursuant to IC 13-15-5-3, this section of this permit becomes effective upon its issuance.

D.1.4 Modification to Construction Conditions [326 IAC 2]

All requirements of these construction conditions shall remain in effect unless modified in a manner consistent with procedures established for revisions pursuant to 326 IAC 2.

OPERATION CONDITIONS

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

D.1.5 FESOP [326 IAC 2-8-4][326 IAC 2-2][40 CFR 63, Subpart M][40 CFR 63, Subpart D]

- (a) The emissions from the dip coating operations (EU-01 and EU-02) and the spray coating lines (EU-03, EU-04, EU-05, EU-9, EU-10, EU-11, EU-12, EU-13, and EU-14) shall be controlled by catalytic oxidizer EU-07 with a destruction efficiency of at least 95%.
- (b) The capture efficiency for each of the dip coating operations (EU-01 and EU-02) shall be at least 90%.

- (c) The capture efficiency for each of the spray coating lines (EU-03, EU-04, EU-05, EU-09, EU-10, EU-11, EU-12, EU-13, and EU-14) shall be at least 85%.
- (d) The VOC emissions from the coating operations EU-01 through EU-05, and EU-09 through EU-14, shall not exceed 98.0 tons per twelve (12) consecutive month period with compliance determined at the end of each month. The monthly VOC emissions from these coating operations shall be calculated as follows:

$$\text{VOC Emissions (tons/month)} = (1 - 95\% \times 90\%) U1 + (1 - 95\% \times 85\%) U2 + (S-W)$$

Where: U1 = Total VOC usage from the use of coatings and thinners in EU-01 and EU-02.
U2 = Total VOC Usage from the use of coatings and thinners in EU-03, EU-04, and EU-05.
S = Total VOC Usage from the use of cleaning solvents.
W = Total VOC in the waste solvent stream.

- (e) Emissions for any single HAP from the dip coating operations (EU-01 and EU-02) and the spray coating lines (EU-03, EU-04, EU-05, EU-09, EU-10, EU-11, EU-12, EU-13, and EU-14) shall not exceed 9.0 tons per twelve (12) consecutive month period with compliance determined at the end of each month. The monthly emissions for an individual HAP shall be calculated using the following equation:

$$HAP_i \text{ (tons/month)} = (1 - 95\% \times 90\%) X_i + (1 - 95\% \times 85\%) Y_i + S_i$$

Where: i = Type of HAP
X_i = HAP i input to EU-01 and EU-02 from the use of coatings and thinners (tons/month).
Y_i = HAP i input to EU-03, EU-04, and EU-5 from the use of coatings and thinners (tons/month).
S_i = HAP i input from the use of cleaning solvents (tons/month).

- (f) Total HAPs emissions from the from the dip coating operations (EU-01 and EU-02) and the spray coating lines (EU-03, EU-04, EU-05, EU-09, EU-10, EU-11, EU-12, EU-13, and EU-14) shall not exceed 24.0 tons per twelve (12) consecutive month period with compliance determined at the end of each month. The total monthly HAP emissions shall be determined using the following equation:

$$\text{Total HAP emissions (tons/month)} = \sum_i HAP_i$$

Where HAP_i , shall be calculated using the equation in Condition D.1.5(e).

Combined with VOC emissions from the insignificant activities, the VOC emissions from the entire source are limited to less than 100 tons/yr. Combined with the HAP emissions from the insignificant activities, the HAP emissions from the entire source are limited to less than 10 tons/yr for a single HAP and less than 25 tons/yr. Therefore, the requirements of 326 IAC 2-7 (Part 70 Program), 326 IAC 2-2 (PSD), 40 CFR 63, Subpart MMMM, and 40 CFR 63, Subpart DDDDD are not applicable.

D.1.6 Volatile Organic Compound (VOC) Content Limitations [326 IAC 8-2-9]

- (a) Pursuant to 326 IAC 8-2-9 (Miscellaneous Metal Coating Operations), no owner or operator of a facility engaged in the surface coating of miscellaneous metal parts or products may cause, allow, or permit the discharge into the atmosphere of any volatile organic compounds in excess of three and five tenths (3.5) pounds of VOC per gallon of coating excluding water, delivered to a coating applicator that applies extreme performance coatings.
- (b) Pursuant to 326 IAC 8-1-2(b), the VOC emissions from the coating operations EU-01 through EU-05, EU-09, EU-10, EU-11, EU-12, EU-13, and EU-14, shall be limited to no greater than the equivalent emissions, expressed as pounds of VOC per gallon of coating solids, allowed in (a).

This equivalency was determined by the following equation:

$$E = L / (1 - (L/D))$$

Where:

- L = Applicable emission limit from 326 IAC 8 in pounds of VOC per gallon of coating;
- D = Density of VOC in coating in pounds per gallon of VOC;
- E = Equivalent emission limit in pounds of VOC per gallon of coating solids as applied.

Actual solvent density shall be used to determine compliance of the surface coating operation using the compliance methods in 326 IAC 8-1-2 (a).

- (c) The pounds of VOC per gallon of coating solids shall be limited to less than 6.67.
- (d) Pursuant to 326 IAC 8-1-2(c), the overall control efficiency of the catalytic oxidizer shall be no less than the equivalent overall efficiency calculated by the following equation:

$$O = \frac{V - E}{V} \times 100$$

Where:

- V = The actual VOC content of the coating or, if multiple coatings are used, the daily weighted average VOC content of all coatings, as applied to the subject coating line as determined by the applicable test methods and procedures specified in 326 IAC 8-1-4 in units of pounds of VOC per gallon of coating solids as applied.
- E = Equivalent emission limit in pounds of VOC per gallon of coating solids as applied.
- O = Equivalent overall efficiency of the capture system and control device as a percentage.

The overall efficiency of the catalytic oxidizer shall be greater than 77%.

- (e) Pursuant to 326 IAC 8-2-9(f) (Miscellaneous Metal Coating Operations), solvent sprayed from the application equipment during clean up or color changes shall be directed into containers. Such containers shall be closed as soon as such solvent spraying is complete, and the waste solvent shall be disposed of in such a manner that evaporation is minimized.

D.1.7 Particulate Matter [40 CFR 52 Subpart P]

Pursuant to 40 CFR 52 Subpart P, the particulate matter from each of the spray coating lines EU-03, EU-04, EU-05, EU-09, EU-10, EU-11, EU-12, EU-13, and EU-14 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:

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

D.1.8 Particulate Control [326 IAC 6-3-2(d)]

Pursuant to 326 IAC 6-3-2(d), particulate from the spray coating lines EU-03, EU-04, EU-05, EU-09, EU-10, EU-11, EU-12, EU-13, and EU-14 shall be controlled by dry particulate filters, and the Permittee shall operate the control device in accordance with manufacturer's specifications.

D.1.9 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 Determination Requirements

D.1.10 Volatile Organic Compounds (VOC)

In order to comply with Conditions D.1.5 and D.1.6, the catalytic oxidizer EU-07 shall be in operation and control emissions from the dip coating operations (EU-01 and EU-02) and the spray coating lines (EU-03, EU-04, EU-05, EU-09, EU-10, EU-11, EU-12, EU-13, and EU-14) at all times that these units are in operation.

D.1.11 Volatile Organic Compounds (VOC) and Hazardous Air Pollutants (HAPs) [326 IAC 8-1-2][326 IAC 8-1-4]

- (a) Compliance with the VOC and HAP emission limitations contained in Condition D.1.5 shall be determined pursuant to 326 IAC 8-1-4(a)(3) and 326 IAC 8-1-2(a) by preparing or obtaining from the manufacturer the copies of the “as supplied” and “as applied” VOC data sheets. IDEM, OAQ, reserves the authority to determine compliance using Method 24 in conjunction with the analytical procedures specified in 326 IAC 8-1-4.
- (b) The Permittee shall determine the VOC and HAP contents of the waste stream in a shipment pursuant to 326 IAC 8-1-4(a)(3) and 326 IAC 8-1-2(a) by EPA Reference Method 24 and the sampling procedures in 326 IAC 8-1-4 or other methods as approved by the Commissioner. If a shipment consists of separate containers, the Permittee shall sample each container.

D.1.12 Testing Requirements [326 IAC 2-8-5(a)(1), (4)] [326 IAC 2-1.1-11]

Within 60 days after achieving the maximum production, but no later than 180 days after initial startup, the Permittee shall perform the following tests:

- (a) In order to demonstrate compliance with Conditions D.1.5(a) and D.1.6(d), the Permittee shall conduct a performance test to verify VOC destruction efficiency for the catalytic oxidizer EU-07 utilizing methods as approved by the Commissioner. This test shall be repeated at least once every five years from the date of the most recent valid compliance demonstration.
- (b) In order to demonstrate compliance with Conditions D.1.5(b) and D.1.6(d), the Permittee shall conduct a performance test to determine the capture efficiencies for the dip coating operations (EU-01 and EU-02) utilizing methods as approved by the Commissioner.
- (c) In order to demonstrate compliance with Conditions D.1.5(c) and D.1.6(d), the Permittee shall conduct a performance test to determine the capture efficiencies for the spray coating lines EU-03, EU-04, EU05, EU-09, EU-10, EU-11, EU-12, EU-13, and EU-14 utilizing methods as approved by the Commissioner.

Testing shall be conducted in accordance with Section C - Performance Testing.

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

D.1.13 Catalytic Oxidizer Temperature

- (a) A continuous monitoring system shall be calibrated, maintained, and operated on the catalytic oxidizer for measuring operating temperature. The output of this system shall be recorded as a 3-hour average. From the date of issuance of this permit until the approved stack test results are available, the Permittee shall operate the catalytic oxidizer at or above the 3-hour average temperature of 600°F.
- (b) The Permittee shall determine the 3-hour average temperature from the most recent valid stack test that demonstrates compliance with limits in Condition D.1.5 (a) as approved by IDEM.

- (c) On and after the date the approved stack test results are available, the Permittee shall operate the catalytic oxidizer at or above the 3-hour average temperature as observed during the compliant stack test.

D.1.14 Parametric Monitoring

- (a) The Permittee shall determine the appropriate duct pressure or fan amperage from the most recent valid stack test that demonstrates compliance with limits in Condition D.1.5 (a), as approved by IDEM.
- (b) The duct pressure or fan amperage shall be observed at least once per day when the catalytic oxidizer is in operation. When for any one reading, the duct pressure or fan amperage is outside the normal range as established in most recent compliant stack test, the Permittee shall take reasonable response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records and Reports. A reading that is outside the range as established in the most recent compliant stack test is not a deviation from this permit. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records and Reports shall be considered a deviation from this permit.

D.1.15 Monitoring

- (a) Daily inspections shall be performed to verify the placement, integrity and particle loading of the filters. To monitor the performance of the dry filters, weekly observations shall be made of the overspray from the spray coating booth stack (stack 1) while one or more of the booths are in operation. The Compliance Response Plan shall be followed whenever a condition exists which should result in a response step. Failure to take response steps in accordance with Section C - Compliance Response Plan -Preparation, Implementation, Records, and Reports, shall be considered a deviation from this permit.
- (b) Monthly inspections shall be performed of the coating emissions from the stack and the presence of overspray on the rooftops and the nearby ground. The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when a noticeable change in overspray emission, or evidence of overspray emission is observed. The Compliance Response Plan shall be followed whenever a condition exists which should result in a response step. Failure to take response steps in accordance with Section C - Compliance Response Plan -Preparation, Implementation, Records, and Reports, shall be considered a deviation from this permit.
- (c) Additional inspections and preventive measures shall be performed as prescribed in the Preventive Maintenance Plan.

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

D.1.16 Record Keeping Requirements

- (a) To document compliance with Conditions D.1.5 (d), (e), and (f) the Permittee shall maintain records in accordance with (1) through (6) below. Records maintained for (1) through (6) shall be taken as stated below and shall be complete and sufficient to establish compliance with the VOC emission limit established in Conditions D.1.5 (d), (e), and (f).
 - (1) The VOC and HAP content of each coating material and solvent used less water.
 - (2) The VOC and HAP content of the waste stream shipped out as determined in Condition D.1.11(b).
 - (3) The amount of coating material and solvent used on a monthly basis.
 - (A) Records shall include purchase orders, invoices, and material safety data sheets (MSDS) necessary to verify the type and amount used.

- (B) Solvent usage records shall differentiate between those added to coatings and those used as cleanup solvents;
- (4) The amount of the waste solvent shipped out.
- (5) The VOC and HAP emissions for each month, calculated using the equation in Conditions D.1.5 (d), (e), and (f).
- (6) The total VOC and HAP emissions for each compliance period.
- (b) To document compliance with Condition D.1.13, the Permittee shall maintain continuous temperature records for the catalytic oxidizer (EU-07) and the 3-hour average temperature used to demonstrate compliance during the most recent compliant stack test.
- (c) To document compliance with Condition D.1.14, the Permittee shall maintain daily records of the duct pressure or fan amperage for the catalytic oxidizer (EU-07).
- (d) To document compliance with Condition D.1.15, the Permittee shall maintain a log of weekly overspray observations, daily and monthly inspections, and those additional inspections prescribed by the Preventive Maintenance Plan.
- (e) To document compliance with Condition D.1.9, the Permittee shall maintain of records of any additional inspections prescribed by the Preventive Maintenance Plan.
- (f) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.1.17 Reporting Requirements

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

SECTION D.2 FACILITY OPERATION CONDITIONS

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

- (a) Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) Btu per hour, including the following:
- (1) One (1) natural gas fired boiler, to be constructed in 2005, with a maximum heat input capacity of 5.0 MMBtu/hr. [326 IAC 6-2-4]

(This 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 PM Emissions [326 IAC 6-2-4]

Pursuant to 326 IAC 6-2-4(a) (PM Emissions for Sources of Indirect Heating), PM emissions from the 5 MMBtu/hr natural gas fired boiler shall not exceed 0.60 lbs/MMBtu.

SECTION D.3 FACILITY OPERATION CONDITIONS

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

(l) Other emission units, not regulated by a NESHAP, with PM₁₀, NO_x, and SO₂ emissions less than five (5) pounds per hour or twenty-five (25) pounds per day, CO emissions less than twenty-five (25) pounds per day, VOC emissions less than three (3) pounds per hour or fifteen (15) pounds per day, lead emissions less than six-tenths (0.6) tons per year or three and twenty-nine hundredths (3.29) pounds per day, and emitting greater than one (1) pound per day but less than five (5) pounds per day or one (1) ton per year of a single HAP, or emitting greater than one (1) pound per day but less than twelve and five tenths (12.5) pounds per day or two and five tenths (2.5) ton per year of any combination of HAPs:

- (1) One (1) steel shot blast machine, identified as EU-08, to be constructed in 2005, with a maximum abrasive usage of 5.0 pounds per hour and the maximum throughput rate of 5,000 pounds of metal parts per hour, controlled by a dust collector. [326 IAC 6-3-2]

(This 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 Emission Limitations [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), particulate emissions from the blast machine EU-08 shall be limited to 7.58 lbs/hr when the process weight rate is 5,000 lbs/hr.

The pounds per hour limitations were calculated using one of the following equations:

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:

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

SECTION D.4 FACILITY OPERATION CONDITIONS

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

- (a) Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) Btu per hour, including the following:
 - (2) One (1) natural gas fired oven, to be constructed in 2005, used in conjunction with the dip coating operation EU-01, with a maximum heat input capacity of 1.0 MMBtu/hr.
 - (3) One (1) natural gas fired oven, to be constructed in 2005, used in conjunction with the dip coating operation EU-02, with a maximum heat input capacity of 2.0 MMBtu/hr.
 - (4) Two (2) natural gas fired ovens, to be constructed in 2005, equipped with spray coating operations EU-04 and EU05, each with a maximum heat input capacity of 0.5 MMBtu/hr.
- (b) Combustion source flame safety purging on startup.
- (c) Machining where an aqueous cutting coolant continuously floods the machining interface.
- (d) Closed loop heating and cooling systems.
- (e) Solvent recycling systems with batch capacity less than or equal to 100 gallons.
- (f) Any operation using aqueous solutions containing less than 1% by weight of VOCs excluding HAPs.
- (g) Replacement or repair of electrostatic precipitators, bags in baghouses and filters in other air filtration equipment.
- (i) Blowdown for any of the following: sight glass; boiler; compressors; pumps; and cooling tower.
- (j) On-site fire and emergency response training approved by the department.
- (k) Filter or coalescer media changeout.
- (l) Other emission units, not regulated by a NESHAP, with PM₁₀, NO_x, and SO₂ emissions less than five (5) pounds per hour or twenty-five (25) pounds per day, CO emissions less than twenty-five (25) pounds per day, VOC emissions less than three (3) pounds per hour or fifteen (15) pounds per day, lead emissions less than six-tenths (0.6) tons per year or three and twenty-nine hundredths (3.29) pounds per day, and emitting greater than one (1) pound per day but less than five (5) pounds per day or one (1) ton per year of a single HAP, or emitting greater than one (1) pound per day but less than twelve and five tenths (12.5) pounds per day or two and five tenths (2.5) ton per year of any combination of HAPs:
 - (2) One (1) parts washer with acid and base cycles, identified as EU-06, to be constructed in 2005, with a maximum usage of 15 gallons per hour of 31.4% hydrochloric acid solution.

(This 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)]

There are no specific state or federal rules applicable to these emission units.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF AIR QUALITY

FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP) CERTIFICATION

Source Name: Parts Finishing Group – Indiana
Source Address: 210 South Progress Drive East, Kendallville, Indiana 46755
Mailing Address: 24600 Industrial Highway, Warren, Michigan 48089
FESOP No.: F113-20355-00084

**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
Phone: 317-233-0178
Fax: 317-233-6865**

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

Source Name: Parts Finishing Group – Indiana
Source Address: 210 South Progress Drive East, Kendallville, Indiana 46755
Mailing Address: 24600 Industrial Highway, Warren, Michigan 48089
FESOP No.: F113-20355-00084

This form consists of 2 pages

Page 1 of 2

- | |
|---|
| <input type="checkbox"/> This is an emergency as defined in 326 IAC 2-7-1(12) <ul style="list-style-type: none">• The Permittee must notify the Office of Air Quality (OAQ), within four (4) business hours (1-800-451-6027 or 317-233-0178, ask for Compliance Section); and• The Permittee must submit notice in writing or by facsimile within two (2) working days (Facsimile Number: 317-233-6865), and follow the other requirements of 326 IAC 2-7-16 |
|---|

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

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

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

Page 2 of 2

Date/Time Emergency started:
Date/Time Emergency was corrected:
Was the facility being properly operated at the time of the emergency? Y N 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: Parts Finishing Group – Indiana
 Source Address: 210 South Progress Drive East, Kendallville, Indiana 46755
 Mailing Address: 24600 Industrial Highway, Warren, Michigan 48089
 FESOP No.: F113-20355-00084
 Facility: Coating Operations EU-01 through EU-05, and EU-09 through EU-14
 Parameter: VOC Emissions
 Limit: Less than 98.0 tons per twelve (12) consecutive month period with compliance determined at the end of each month.

$$\text{VOC Emissions (tons/month)} = (1 - 95\% \times 90\%) U1 + (1 - 95\% \times 85\%) U2 + (S-W)$$

Where: U1 = Total VOC usage from the use of coatings and thinners in EU-01 and EU-02.
 U2= Total VOC Usage from the use of coatings and thinners in EU-03, EU-04, and EU-05.
 S= Total VOC Usage from the use of cleaning solvents.
 W= Total VOC in the waste solvent stream.

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

FESOP Quarterly Report

Source Name: Parts Finishing Group – Indiana
 Source Address: 210 South Progress Drive East, Kendallville, Indiana 46755
 Mailing Address: 24600 Industrial Highway, Warren, Michigan 48089
 FESOP No.: F113-20355-00084
 Facility: Coating Operations EU-01 through EU-05, and EU-09 through EU-14
 Parameter: Single HAP Emissions
 Limit: Less than 9.0 tons per twelve (12) consecutive month period with compliance determined at the end of each month.

$$HAP_i \text{ (tons/month)} = (1 - 95\% \times 90\%) X_i + (1 - 95\% \times 85\%) Y_i + S_i$$

Where: i = Type of HAP
 X_i = HAP i input to EU-01 and EU-02 from the use of coatings and thinners (tons/month).
 Y_i = HAP i input to EU-03, EU-04, and EU-5 from the use of coatings and thinners (tons/month).
 S_i = HAP i input from the use of cleaning solvents (tons/month).

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

FESOP Quarterly Report

Source Name: Parts Finishing Group – Indiana
 Source Address: 210 South Progress Drive East, Kendallville, Indiana 46755
 Mailing Address: 24600 Industrial Highway, Warren, Michigan 48089
 FESOP No.: F113-20355-00084
 Facility: Coating Operations EU-01 through EU-05, and EU-09 through EU-14
 Parameter: Total HAP Emissions
 Limit: Less than 24.0 tons per twelve (12) consecutive month period with compliance determined at the end of each month.

$$\text{Total HAP emissions (tons/month)} = \sum_i HAP_i$$

Where

$$HAP_i \text{ (tons/month)} = (1 - 95\% \times 90\%) X_i + (1 - 95\% \times 85\%) Y_i + S_i$$

$i =$ Type of HAP

$X_i =$ HAP i input to EU-01 and EU-02 from the use of coatings and thinners (tons/month).

$Y_i =$ HAP i input to EU-03, EU-04, and EU-5 from the use of coatings and thinners (tons/month).

$S_i =$ HAP i input from the use of cleaning solvents (tons/month).

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: Parts Finishing Group – Indiana
Source Address: 210 South Progress Drive East, Kendallville, Indiana 46755
Mailing Address: 24600 Industrial Highway, Warren, Michigan 48089
FESOP No.: F113-20355-00084

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 ΔNo deviations occurred this reporting period@.</p>	
<p><input type="checkbox"/> NO DEVIATIONS OCCURRED THIS REPORTING PERIOD.</p>	
<p><input type="checkbox"/> THE FOLLOWING DEVIATIONS OCCURRED THIS REPORTING PERIOD</p>	
<p>Permit Requirement (specify permit condition #)</p>	
<p>Date of Deviation:</p>	<p>Duration of Deviation:</p>
<p>Number of Deviations:</p>	
<p>Probable Cause of Deviation:</p>	
<p>Response Steps Taken:</p>	
<p>Permit Requirement (specify permit condition #)</p>	
<p>Date of Deviation:</p>	<p>Duration of Deviation:</p>
<p>Number of Deviations:</p>	
<p>Probable Cause of Deviation:</p>	
<p>Response Steps Taken:</p>	

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

Form Completed By: _____

Title/Position: _____

Date: _____

Phone: _____

Attach a signed certification to complete this report.

Appendix A: Emissions Calculations
Entire Source Emission Summary

Company Name: Parts Finishing Group - Indiana
Address CITY IN Zip: 210 S. Progress Drive East, Kendallville, IN 46755
FESOP No.: F113-20355-00084
Revision No.: F113-27000-00084
Reviewer: Hannah L. Desrosiers
Date: September 17, 2008

Uncontrolled Potential Emissions (tons/year)							
Category	Pollutant	Emissions Generating Activity					TOTAL
		Existing Emission Units					
		Blast Machine [EU-8]	Natural Gas Combustion [(1) boiler] [(4) ovens]	Dip Coating Operations [EU-1 & EU-2]	Spray Coating Operations [EU-3, EU-4, EU-5] [EU-9, EU-10, EU-11]	Spray Coating Operations [EU-12, EU-13, EU-14]	
Criteria Pollutants	PM	0.09	0.07	0	60.78	10.62	71.57
	PM10*	0.08	0.30	0	60.78	10.62	71.78
	PM2.5	0.08	0.22	0	60.78	10.62	71.71
	SO2	0	0.02	0	0	0	0.02
	NOx	0	3.94	0	0	0	3.94
	VOC	0	0.22	181.31	1,210.48	140.22	1532.23
	CO	0	3.31	0	0	0	3.31
	Totals	0	0.074	144.54	1136.03	197.82	1478.46
Hazardous Air Pollutants	Benzene	0	8.28E-05	0	0	0	8.28E-05
	Dichlorobenzene	0	4.73E-05	0	0	0	4.73E-05
	Ethylbenzene	0	0	10.17	82.61	17.39	110.18
	Formaldehyde	0	2.96E-03	0.411	4.112	0	4.53
	Hexane	0	0.071	0	0	0	0.07
	MEK	0	0	0.95	1.90	0	2.85
	Methanol	0	0	6.95	0	0	6.95
	MIBK	0	0	24.67	246.69	30.79	302.15
	Toluene	0	1.34E-04	65.31	502.14	87.75	655.70
	Xylenes	0	0	35.58	288.57	55.26	389.41
	Cadmium	0	4.34E-05	0	0	0	4.34E-05
	Chromium	0	5.52E-05	0	0	0	5.52E-05
	Lead	0	1.97E-05	0	0	0	1.97E-05
	Manganese	0	1.50E-05	0	0	0	1.50E-05
	Nickel	0	8.28E-05	0	0	0	8.28E-05
	Selenium	0	0	0	0	3.31	3.31
	Zinc Compounds	0	0	0	0	3.31	3.31
	Totals	0	0.074	144.54	1136.03	197.82	1478.46

Total emissions based on rated capacity at 8,760 hours/year.

* Under the Part 70 Permit program (40 CFR 70), particulate matter with an aerodynamic diameter less than or equal to a nominal 10 micrometers (PM10), not particulate matter (PM), is considered as a "regulated air pollutant". US EPA has directed states to regulate PM10 emissions as surrogate for PM2.5 emissions.

Controlled Emissions (tons/year)							
Category	Pollutant	Emissions Generating Activity					TOTAL
		Existing Emission Units					
		Blast Machine [EU-8]	Natural Gas Combustion [(1) boiler] [(4) ovens]	Dip Coating Operations [EU-1 & EU-2]	Spray Coating Operations [EU-3, EU-4, EU-5] [EU-9, EU-10, EU-11]	Spray Coating Operations [EU-12, EU-13, EU-14]	
Criteria Pollutants	PM	0.0044	0.07	0	3.04	0.53	3.65
	PM10*	0.0038	0.30	0	3.04	0.53	3.87
	PM2.5	0.0038	0.22	0	3.04	0.53	3.80
	SO2	0	0.02	0	0	0	0.02
	NOx	0	3.94	0	0	0	3.94
	VOC	0	0.22	6.30	60.52	7.01	74.05
	CO	0	3.31	0	0	0	3.31
	Totals	0	0.074	9.07	60.52	9.89	79.55
Hazardous Air Pollutants	Benzene	0	8.28E-05	0	0	0	8.28E-05
	Dichlorobenzene	0	4.73E-05	0	0	0	4.73E-05
	Ethylbenzene	0	0	0.51	4.13	8.70E-01	5.51
	Formaldehyde	0	2.96E-03	0.021	0.206	0	0.23
	Hexane	0	0.071	0	0	0	0.07
	MEK	0	0	1.89	3.82	0	5.70
	Methanol	0	0	0.35	0	0	0.35
	MIBK	0	0	1.23	12.33	1.54	15.11
	Toluene	0	1.34E-04	3.29	25.11	4.39	32.79
	Xylenes	0	0	1.78	14.93	2.76	19.47
	Cadmium	0	4.34E-05	0	0	0	4.34E-05
	Chromium	0	5.52E-05	0	0	0	5.52E-05
	Lead	0	1.97E-05	0	0	0	1.97E-05
	Manganese	0	1.50E-05	0	0	0	1.50E-05
	Nickel	0	8.28E-05	0	0	0	8.28E-05
	Selenium	0	0	0	0	0.17	0.17
	Zinc Compounds	0	0	0	0	0.17	0.17
	Totals	0	0.074	9.07	60.52	9.89	79.55

Total emissions based on rated capacity at 8,760 hours/year.

* Under the Part 70 Permit program (40 CFR 70), particulate matter with an aerodynamic diameter less than or equal to a nominal 10 micrometers (PM10), not particulate matter (PM), is considered as a "regulated air pollutant". US EPA has directed states to regulate PM10 emissions as surrogate for PM2.5 emissions.

Limited & Controlled Emissions (tons/year)							
Category	Pollutant	Emissions Generating Activity					TOTAL
		Existing Emission Units					
		Blast Machine [EU-8]	Natural Gas Combustion [(1) boiler] [(4) ovens]	Dip Coating Operations [EU-1 & EU-2]	Spray Coating Operations [EU-3, EU-4, EU-5] [EU-9, EU-10, EU-11]	Spray Coating Operations [EU-12, EU-13, EU-14]	
Criteria Pollutants	PM	0.0044	0.07	0	3.04	0.53	3.65
	PM10	0.0038	0.30	0	3.04	0.53	3.87
	PM2.5	0.0038	0.22	0	3.04	0.53	3.80
	SO2	0	0.02	0	0	0	0.02
	NOx	0	3.94	0	0	0	3.94
	VOC	0	0.22	0	< 98.0	0	< 100
	CO	0	3.31	0	0	0	3.31
	Totals	0	0.074	0	< 98.0	< 25	< 100
Hazardous Air Pollutants	Benzene	0	8.28E-05	0	0	0	8.28E-05
	Dichlorobenzene	0	4.73E-05	0	0	0	4.73E-05
	Ethylbenzene	0	0	0	< 9.0	0	< 10
	Formaldehyde	0	2.96E-03	0	< 9.0	0	< 10
	Hexane	0	0.071	0	0	0	0.07
	MEK	0	0	0	< 9.0	0	< 10
	Methanol	0	0	0	< 9.0	0	< 10
	MIBK	0	0	0	< 9.0	0	< 10
	Toluene	0	1.34E-04	0	< 9.0	0	< 10
	Xylenes	0	0	0	< 9.0	0	< 10
	Cadmium	0	4.34E-05	0	0	0	4.34E-05
	Chromium	0	5.52E-05	0	0	0	5.52E-05
	Lead	0	1.97E-05	0	0	0	1.97E-05
	Manganese	0	1.50E-05	0	0	0	1.50E-05
	Nickel	0	8.28E-05	0	0	0	8.28E-05
	Selenium	0	0	0	< 9.0	0	< 10
	Zinc Compounds	0	0	0	< 9.0	0	< 10
	Totals	0	0.074	0	< 24	< 25	< 10

Total emissions based on rated capacity at 8,760 hours/year.

* Under the Part 70 Permit program (40 CFR 70), particulate matter with an aerodynamic diameter less than or equal to a nominal 10 micrometers (PM10), not particulate matter (PM), is considered as a "regulated air pollutant". US EPA has directed states to regulate PM10 emissions as surrogate for PM2.5 emissions.

Appendix A: Emission Calculations
From NEW Spray Coating Lines EU-12, EU-13, and EU-14.

Company Name: Parts Finishing Group - Indiana
Address City IN Zip: 210 S. Progress Drive East, Kendallville, IN 46755
FESOP No.: F113-20355-00084
Revision No.: F113-27000-00084
Reviewer: Hannah L. Desrosiers
Date: September 17, 2008

VOC and PM/PM10 Emissions

Material	Density (lbs/gal)	Weight % Volatile (H ₂ O & Organics)	Weight % Water	Weight % Organics	Maximum Usage (gal/hr)*	Pounds VOC per gallon of coating	PTE of VOC (lbs/hr)	PTE of VOC (lbs/day)	PTE of VOC (tons/yr)	PTE of PM/PM10** (lbs/hr)	PTE of PM/PM10** (tons/yr)	Transfer Efficiency***	
Base Coat (Worst Case)	7.81	75.7%	0.0%	75.7%	1.50	5.91	8.9	213	39	1.00	4.4	65%	
Cover Coat (Worst Case)	8.40	73.0%	0.0%	73.0%	1.80	6.13	11.0	265	48	1.43	6.3	65%	
Reducer - Toluene	7.26	100%	0.0%	100%	0.09	7.26	0.7	16	3	0.00	0.00	100%	
Reducer - Xylene	7.25	100%	0.0%	100%	1.58	7.25	11.5	275	50	0.00	0.00	100%	
Clean Up Solvent - Toluene	7.26	100%	0.0%	100%	0.00	7.26	0.00	0.0	0.00	0.00	0.00	100%	
Uncontrolled Potential to Emit:							32.01		140.22		10.62		
****Control Efficiency:							95%		95%		95%		
Controlled Emissions:							1.60		7.01		0.53		

METHODOLOGY

Pounds of VOC per Gallon Coating = Density (lbs/gal) * Weight % Organics
PTE of VOC before Control (lbs/hr) = Max. Usage (gal/hr) * Pounds of VOC per Gallon coating (lbs/gal)
PTE of VOC before Control (lbs/day) = Max. Usage (gal/hr) * Pounds of VOC per Gallon coating (lbs/gal) * (24 hr/day)
PTE of VOC before Control (tons/yr) = Max. Usage (gal/hr) * Pounds of VOC per Gallon coating (lbs/gal) * (8760 hr/yr) * (1 ton/2000 lbs)
PTE of VOC after Control (tons/yr) = Max. Usage (gal/hr) * Pounds of VOC per Gallon coating (lbs/gal) * (8760 hr/yr) * (1-control Efficiency)
PTE of PM/PM10 before Control (lbs/hr) = Max. Usage (gal/hr) * Density (lbs/gal) * (1- Weight % Volatile) * (1-Transfer efficiency)
PTE of PM/PM10 before Control (tons/yr) = Max. Usage (gal/hr) * Density (lbs/gal) * (1- Weight % Volatile) * (1-Transfer efficiency) * (8760 hrs/yr) * (1 ton/2000 lbs)
PTE of PM/PM10 after Control (tons/yr) = Max. Usage (gal/hr) * Density (lbs/gal) * (1- Weight % Volatile) * (1-Transfer efficiency) * (8760 hrs/yr) * (1-control Efficiency)

NOTES

* The total *anticipated* usage for spray coating lines EU-12, EU-13, and EU-14 based on 03/08 usage of spray coating operations EU-01, EU-02, EU-03, EU-04, EU-05, EU-09, EU-10 and EU-11.
**Assume all the PM and PM2.5 emissions equal PM10 emissions.
Under the Part 70 Permit program (40 CFR 70), particulate matter with an aerodynamic diameter less than or equal to a nominal 10 micrometers (PM10), not particulate matter (PM), is considered as a "regulated air pollutant". US EPA has directed states to regulate PM10 emissions as surrogate for PM2.5 emissions.
*** HVLP application method is used in all spray coating operations. The transfer efficiency is from an HVLP document prepared by BINKS.
****These spray booths will be controlled by dryer filters and an RTO (EU-07).

HAP Emissions

Material	Density (lbs/gal)	Maximum Usage (gal/hr)*	Weight % Ethylbenzene	PTE of Ethylbenzene (tons/yr)	Weight % MIBK	PTE of MIBK (tons/yr)	Weight % Toluene	PTE of Toluene (tons/yr)	Weight % Xylene	PTE of Xylene (tons/yr)	Weight % Selenium	PTE of Selenium (tons/yr)	Weight % Zinc Compounds	PTE of Zinc Compounds (tons/yr)
Base Coat (Worst Case)	7.81	1.50	3.00%	1.54	60.0%	31	0.0%	0.00	15.0%	7.70	0.0%	0.00	0.0%	0.00
Cover Coat (Worst Case)	8.40	1.80	5.00%	3.31	0.0%	0.00	60.0%	39.74	15.0%	9.93	5.0%	3.31	5.0%	3.31
Reducer - Toluene	7.26	0.09	0.0%	0.00	0.0%	0.00	100%	2.86	0.0%	0.00	0.0%	0.00	0.0%	0.00
Reducer - Xylene	7.25	1.58	25.0%	12.54	0.0%	0.00	90.0%	45.16	75.0%	37.63	0.0%	0.00	0.0%	0.00
Clean Up Solvent - Toluene	7.26	0.00	0.0%	0.00	0.0%	0.00	100%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00
Uncontrolled Potential to Emit:				17.39		30.79		87.75		55.26		3.31		3.31
****Control Efficiency:				95%		95%		95%		95%		95%		95%
Controlled Emissions:				0.87		1.54		4.39		2.76		0.17		0.17

METHODOLOGY

PTE of HAP before Control (tons/yr) = Density (lbs/gal) x Max. Usage (gal/hr) x Weight % HAP x 8760 hr/yr x 1 ton/2000 lbs
PTE of HAP after Control (tons/yr) = Density (lbs/gal) x Max. Usage (gal/hr) x Weight % HAP x 8760 hr/yr x 1 ton/2000 lbs * (1-control Efficiency)

NOTES

* The total *anticipated* usage for spray coating lines EU-12, EU-13, and EU-14 based on 03/08 usage of spray coating operations EU-01, EU-02, EU-03, EU-04, EU-05, EU-09, EU-10 and EU-11.
****These spray booths will be controlled by dryer filters and an RTO (EU-07).

Total Uncontrolled HAPs:	197.82	tons/yr
****Control Efficiency:	95%	
Total Controlled HAPs:	9.89	tons/yr

Appendix A: Emissions Calculations Existing Emission Summary

Company Name: Parts Finishing Group - Indiana
Address City IN Zip: 210 S. Progress Drive East, Kendallville, IN 46755
FESOP No.: F113-20355-00084
Revision No.: Revision No.:
Reviewer: Hannah L. Desrosiers
Date: September 17, 2008

Uncontrolled Potential Emissions (tons/year)							
Category	Pollutant	Emissions Generating Activity				TOTAL	
		Blast Machine [EU-8]	Natural Gas Combustion [(1) boiler] [(4) ovens]	Dip Coating Operations [EU-1 & EU-2]	Spray Coating Operations [EU-3, EU-4, EU-5] [EU-9, EU-10, EU-11]		
Criteria Pollutants	PM	0.09	0.07	0	60.78	60.95	
	PM10	0.08	0.30	0	60.78	61.16	
	PM2.5	0.08	0.22	0	60.78	61.08	
	SO2	0	0.02	0	0	0.02	
	NOx	0	3.94	0	0	3.94	
	VOC	0	0.22	181.31	1,210.48	1,392.00	
	CO	0	3.31	0	0	3.31	
Hazardous Air Pollutants	Benzene	0	8.28E-05	0	0	8.28E-05	
	Dichlorobenzene	0	4.73E-05	0	0	4.73E-05	
	Ethylbenzene	0	0	10.17	82.61	92.78	
	Formaldehyde	0	2.96E-03	0.411	4.112	4.53	
	Hexane	0	0.071	0	0	0.07	
	MEK	0	0	37.72	76.35	114.07	
	Methanol	0	0	6.95	0	6.95	
	MIBK	0	0	24.67	246.69	271.36	
	Toluene	0	1.34E-04	65.81	502.14	567.95	
	Xylenes	0	0	35.58	298.57	334.15	
	Cadmium	0	4.34E-05	0	0	4.34E-05	
	Chromium	0	5.52E-05	0	0	5.52E-05	
	Lead	0	1.97E-05	0	0	1.97E-05	
	Manganese	0	1.50E-05	0	0	1.50E-05	
	Nickel	0	8.28E-05	0	0	8.28E-05	
	Selenium	0	0	0	0	0	
	Zinc Compounds	0	0	0	0	0	
	Totals		0	0.074	181.31	1210.48	1391.862
	Worse Case HAP						567.945

Total emissions based on rated capacity at 8,760 hours/year.

* Under the Part 70 Permit program (40 CFR 70), particulate matter with an aerodynamic diameter less than or equal to a nominal 10 micrometers (PM10), not particulate matter (PM), is considered as a "regulated air pollutant". US EPA has directed states to regulate PM10 emissions as surrogate for PM2.5 emissions.

Controlled Potential Emissions (tons/year)							
Category	Pollutant	Emissions Generating Activity				TOTAL	
		Blast Machine [EU-8]	Natural Gas Combustion [(1) boiler] [(4) ovens]	Dip Coating Operations [EU-1 & EU-2]	Spray Coating Operations [EU-3, EU-4, EU-5] [EU-9, EU-10, EU-11]		
Criteria Pollutants	PM	0.0044	0.07	0	3.04	3.12	
	PM10	0.0038	0.30	0	3.04	3.34	
	PM2.5	0.0038	0.22	0	3.04	3.27	
	SO2	0	0.02	0	0	0.02	
	NOx	0	3.94	0	0	3.94	
	VOC	0	0.22	6.30	60.52	67.04	
	CO	0	3.31	0	0	3.31	
Hazardous Air Pollutants	Benzene	0	8.28E-05	0	0	8.28E-05	
	Dichlorobenzene	0	4.73E-05	0	0	4.73E-05	
	Ethylbenzene	0	0	0.51	4.13	4.64	
	Formaldehyde	0	2.96E-03	0.021	0.206	0.23	
	Hexane	0	0.071	0	0	0.07	
	MEK	0	0	1.89	3.82	5.70	
	Methanol	0	0	0.35	0	0.35	
	MIBK	0	0	1.23	12.33	13.57	
	Toluene	0	1.34E-04	3.29	25.11	28.40	
	Xylenes	0	0	1.78	14.93	16.71	
	Cadmium	0	4.34E-05	0	0	4.34E-05	
	Chromium	0	5.52E-05	0	0	5.52E-05	
	Lead	0	1.97E-05	0	0	1.97E-05	
	Manganese	0	1.50E-05	0	0	1.50E-05	
	Nickel	0	8.28E-05	0	0	8.28E-05	
	Selenium	0	0	0	0	0	
	Zinc Compounds	0	0	0	0	0	
	Totals		0	0.074	9.07	60.52	69.66
	Worse Case HAP						28.40

Total emissions based on rated capacity at 8,760 hours/year.

* Under the Part 70 Permit program (40 CFR 70), particulate matter with an aerodynamic diameter less than or equal to a nominal 10 micrometers (PM10), not particulate matter (PM), is considered as a "regulated air pollutant". US EPA has directed states to regulate PM10 emissions as surrogate for PM2.5 emissions.

Limited & Controlled Emissions (tons/year)							
Category	Pollutant	Emissions Generating Activity				TOTAL	
		Blast Machine [EU-8]	Natural Gas Combustion [(1) boiler] [(4) ovens]	Dip Coating Operations [EU-1 & EU-2]	Spray Coating Operations [EU-3, EU-4, EU-5] [EU-9, EU-10, EU-11]		
Criteria Pollutants	PM	0.0044	0.07	0	3.04	3.12	
	PM10	0.0038	0.30	0	3.04	3.34	
	PM2.5	0.0038	0.22	0	3.04	3.27	
	SO2	0	0.02	0	0	0.02	
	NOx	0	3.94	0	0	3.94	
	VOC	0	0.22		< 98.0	< 100	
	CO	0	3.31	0	0	3.31	
Hazardous Air Pollutants	Benzene	0	8.28E-05	0	0	8.28E-05	
	Dichlorobenzene	0	4.73E-05	0	0	4.73E-05	
	Ethylbenzene	0	0		<9.0	<10	
	Formaldehyde	0	2.96E-03		<9.0	<10	
	Hexane	0	0.071	0	0	0.07	
	MEK	0	0		<9.0	<10	
	Methanol	0	0		<9.0	<10	
	MIBK	0	0		<9.0	<10	
	Toluene	0	1.34E-04		<9.0	<10	
	Xylenes	0	0		<9.0	<10	
	Cadmium	0	4.34E-05	0	0	4.34E-05	
	Chromium	0	5.52E-05	0	0	5.52E-05	
	Lead	0	1.97E-05	0	0	1.97E-05	
	Manganese	0	1.50E-05	0	0	1.50E-05	
	Nickel	0	8.28E-05	0	0	8.28E-05	
	Selenium	0	0	0	0	0	
	Zinc Compounds	0	0	0	0	0	
	Totals		0	0.074	<24	<25	< 10
	Worst Single HAP						< 10

Total emissions based on rated capacity at 8,760 hours/year.

* Under the Part 70 Permit program (40 CFR 70), particulate matter with an aerodynamic diameter less than or equal to a nominal 10 micrometers (PM10), not particulate matter (PM), is considered as a "regulated air pollutant". US EPA has directed states to regulate PM10 emissions as surrogate for PM2.5 emissions.

**Appendix A: Emission Calculations
PM and PM10 Emissions
From the Blast Machine (EU-08)**

Company Name: Parts Finishing Group - Indiana
Address City IN Zip: 210 S. Progress Drive East, Kendallville, IN 46755
FESOP No.: F113-20355-00084
Revision No.: F113-27000-00084
Reviewer: Hannah L. Desrosiers
Date: September 17, 2008

Type of Abrasive Used: Steel Shots

Max. Abrasive Input Rate (lbs/hr)	PM Emission Factor* (lbs/lbs)	PTE of PM before Control (lbs/hr) **	PTE of PM before Control (tons/yr) **	PTE of PM after Control (tons/yr) **	PM10 Emission Factor* (lbs/lbs PM)	PTE of PM10 before Control (lbs/hr) **	PTE of PM10 before Control (tons/yr) **	PTE of PM10 after Control (tons/yr) **
5.00	0.004	0.02	0.09	0.0044	0.86	0.02	0.08	0.0038

Methodology

PTE of PM before Control (lbs/hr) = Max. Abrasive Usage (lbs/hr) x PM Emission Factor (lbs/lbs)

PTE of PM before Control (tons/yr) = Max. Abrasive Usage (lbs/hr) x PM Emission Factor (lbs/lbs) x 8760 hr/yr x 1 ton/2000 lbs

PTE of PM after Control (tons/yr) = PTE of PM before Control (tons/yr) * (1-control efficiency)

PTE of PM before Control (lbs/hr) = Potential PM Emissions x PM10 Emission Factor (lbs/lbs)

PTE of PM10 before Control = Potential PM Emissions x PM10 Emission Factor (lbs/lbs)

PTE of PM10 after Control (tons/yr) = PTE of PM before Control (tons/yr) * (1-control efficiency)

Notes

* The emission factors are from grit blasting from Air Quality Permits, Vol.1, Section 3 "Abrasive Blasting" (1991 Edition) by Stappa Alapco.

** Under the Part 70 Permit program (40 CFR 70), particulate matter with an aerodynamic diameter less than or equal to a nominal 10 micrometers (PM10), not particulate matter (PM), is considered as a "regulated air pollutant". US EPA has directed states to regulate PM10 emissions as surrogate for PM2.5 emissions.

**Assume all the PM10 emissions are PM2.5 emissions.

*** Control efficiency assumed to be 95%.

**Appendix A: Emissions Calculations
Natural Gas Combustion Only
MM BTU/HR <100**

Company Name: Parts Finishing Group - Indiana
Address City IN Zip: 210 S. Progress Drive East, Kendallville, IN 46755
FESOP No.: F113-20355-00084
Revision No.: F113-27000-00084
Reviewer: Hannah L. Desrosiers
Date: September 17, 2008

Heat Input Capacity
MMBtu/hr
9.00
(5 Units Total)
incl; [(1) boiler]
[(4) ovens]

Potential Throughput
MMCF/yr
78.84

Particulate Emissions

Emission Factor in lb/MMCF	Pollutant						
	PM*	PM10*	PM2.5*	SO2	NOx	VOC	CO
	1.9	7.6	5.7	0.6	100.0 **see below	5.5	84.0
Potential Emission in tons/yr	0.075	0.300	0.22	0.024	3.94	0.22	3.31

HAPs Emissions

Emission Factor in lb/MMcf	HAPs - Organics				
	Benzene	Dichlorobenzen	Formaldehyde	Hexane	Toluene
	2.10E-03	1.20E-03	0.08	1.80	3.40E-03
Potential Emission in tons/yr	8.28E-05	4.73E-05	2.96E-03	0.071	1.34E-04

Emission Factor in lb/MMcf	HAPs - Metals				
	Lead	Cadmium	Chromium	Manganese	Nickel
	5.00E-04	1.10E-03	1.40E-03	3.80E-04	2.10E-03
Potential Emission in tons/yr	1.97E-05	4.34E-05	5.52E-05	1.50E-05	8.28E-05

Total HAPs = 0.074 tons/yr

Worst Single HAP = 0.071 tons/yr

Methodology

Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,000 MMBtu
Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton

Notes

MMBtu = 1,000,000 Btu

MMCF = 1,000,000 Cubic Feet of Gas

All emission factors are based on normal firing.

Emission Factors are from AP 42, Chapter 1.4, Tables 1.4-1, 1.4-2, 1.4-3, SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03 (SUPPLEMENT D 3/98).

*PM emission factor is filterable PM only. PM10 emission factor is filterable and condensable PM10 combined. PM2.5 emission factor is condensable PM2.5 only.

**Emission Factors for NOx: Uncontrolled = 100, Low NOx Burner = 50, Low NOx Burners/Flue gas recirculation = 32

Appendix A: Emission Calculations From Dip Coating Operations EU-01 and EU-02

Company Name: Parts Finishing Group - Indiana
Address City IN Zip: 210 S. Progress Drive East, Kendallville, IN 46755
FESOP No.: F113-20355-00084
Revision No.: F113-27000-00084
Reviewer: Hannah L. Desrosiers
Date: September 17, 2008

VOC Emissions

Material	Density (lbs/gal)	Weight % Volatile (H ₂ O & Organics)	Weight % Water	Weight % Organics	Maximum Usage (gal/hr)*	Pounds VOC per gallon of coating	PTE of VOC before Control (lbs/hr)	PTE of VOC before Control (lbs/day)	PTE of VOC before Control (tons/yr)
Base Coat (Worst Case)	7.81	81.0%	0.0%	81.0%	1.20	6.33	7.60	182	33.3
Cover Coat (Worst Case)	8.25	78.0%	0.0%	78.0%	1.20	6.44	7.73	186	33.9
Reducer - Toluene	7.26	100%	0.0%	100%	0.96	7.26	6.98	168	30.6
Reducer - Xylene	7.25	100%	0.0%	100%	0.96	7.25	6.97	167	30.5
Reducer - MEK	6.74	100%	0.0%	100%	0.96	6.74	6.48	156	28.4
Reducer - Methanol	6.60	100%	0.0%	100%	0.24	6.60	1.59	38.1	6.95
Clean Up Solvent - Toluene	7.26	100%	0.0%	100%	0.29	7.26	2.09	50.3	9.17
Clean Up Solvent - MEK	6.74	100%	0.0%	100%	0.29	6.74	1.94	46.7	8.52
Uncontrolled Potential to Emit:							41.40		181.31
**Control Efficiency:							95%		95%
Controlled Emissions:							2.07		9.07

METHODOLOGY

Pounds of VOC per Gallon Coating = Density (lbs/gal) * Weight % Organics
 PTE of VOC before Control (lbs/hr) = Pounds of VOC per Gallon coating (lbs/gal) * Max. Throughput (unit/hr) * Max. Usage (gal/unit)
 PTE of VOC before Control (lbs/day) = Pounds of VOC per Gallon coating (lbs/gal) * Max. Throughput (unit/hr) * Max. Usage (gal/unit) * (24 hr/day)
 PTE of VOC before Control (tons/yr) = Pounds of VOC per Gallon coating (lbs/gal) * Max. Throughput (unit/hr) * Max. Usage (gal/unit) * (8760 hr/yr) * (1 ton/2000 lbs)

NOTES

* This is the total coating usage for dip coating operations EU-01 and EU-02.
 **These coating operations will be controlled by a RTO (EU-07). There are no PM/PM10 emissions from the dip coating operations.

HAP Emissions

Material	Density (lbs/gal)	Maximum Usage (gal/hr)*	Weight % Ethylbenzene	PTE of Ethylbenzene (tons/yr)	Weight % Formaldehyde	PTE of Formaldehyde (tons/yr)	Weight % MEK	PTE of MEK (tons/yr)	Weight % Methanol	PTE of Methanol (tons/yr)	Weight % MIBK	PTE of MIBK (tons/yr)	Weight % Toluene	PTE of Toluene (tons/yr)	Weight % Xylene	PTE of Xylene (tons/yr)
Base Coat (Worst Case)	7.81	1.20	3.00%	1.23	1.00%	0.41	2.00%	0.82			60.0%	24.7			15.0%	6.17
Cover Coat (Worst Case)	8.25	1.20	3.00%	1.30									60.0%	26.1	15.0%	6.51
Reducer - Toluene	7.26	0.96											100%	30.6		
Reducer - Xylene	7.25	0.96	25.0%	7.63											75.0%	22.9
Reducer - MEK	6.74	0.96					100%	28.4								
Reducer - Methanol	6.60	0.24							100%	6.95						
Clean Up Solvent - Toluene	7.26	0.29											100%	9.17		
Clean Up Solvent - MEK	6.74	0.29					100%	8.52								
Uncontrolled Potential to Emit:				10.17	0.41		37.72		6.95		24.67		65.81		35.58	
****Control Efficiency:				95%	95%		95%		95%		95%		95%		95%	
Controlled Emissions:				0.51	0.02		1.89		0.35		1.23		3.29		1.78	

METHODOLOGY

PTE of HAP before Control (tons/yr) = Density (lbs/gal) x Max. Usage (gal/hr) x Weight % HAP x 8760 hr/yr x 1 ton/2000 lbs
 PTE of HAP after Control (tons/yr) = Density (lbs/gal) x Max. Usage (gal/hr) x Weight % HAP x 8760 hr/yr x 1 ton/2000 lbs * (1-control Efficiency)

NOTES

* The total *anticipated* usage for spray coating lines EU-12, EU-13, and EU-14 based on 03/08 usage of spray coating operations EU-01, EU-02, EU-03, EU-04, EU-05, EU-09, EU-10 and EU-11.
 ****These spray booths will be controlled by dryer filters and an RTO (EU-07).

Total UncontrolledHAPs:	126.06	tons/yr
****Control Efficiency:	95%	
Total ControlledHAPs:	6.30	tons/yr

Appendix A: Emission Calculations From Spray Coating Lines EU-03, EU-04, EU-05,

Company Name: Parts Finishing Group - Indiana
Address City IN Zip: 210 S. Progress Drive East, Kendallville, IN 46755
FESOP No.: F113-20355-00084
Revision No.: F113-27000-00084
Reviewer: Hannah L. Desrosiers
Date: September 17, 2008

VOC and PM/PM10 Emissions

Material	Density (lbs/gal)	Weight % Volatile (H ₂ O & Organics)	Weight % Water	Weight % Organics	Maximum Usage (gal/hr)*	Pounds VOC per gallon of coating	PTE of VOC (lbs/hr)	PTE of VOC (lbs/day)	PTE of VOC (tons/yr)	PTE of PM/PM10** (lbs/hr)	PTE of PM/PM10** (tons/yr)	Transfer Efficiency***
Base Coat (Worst Case)	7.81	81.0%	0.0%	81.0%	6.01	6.33	38.0	912	167	3.12	13.7	65%
Cover Coat (Worst Case)	8.25	78.0%	0.0%	78.0%	6.01	6.44	38.7	928	169	3.82	16.7	65%
Reducer - Toluene	7.26	100%	0.0%	100%	3.61	7.26	26.2	628	115	0.00	0.00	100%
Reducer - Xylene	7.25	100%	0.0%	100%	3.61	7.25	26.1	627	115	0.00	0.00	100%
Reducer - MEK	6.74	100%	0.0%	100%	0.96	6.74	6.48	156	28.4	0.00	0.00	100%
Clean Up Solvent - Toluene	7.26	100%	0.0%	100%	0.19	7.26	1.40	33.5	6.12	0.00	0.00	100%
Clean Up Solvent - MEK	6.74	100%	0.0%	100%	0.19	6.74	1.30	31.1	5.68	0.00	0.00	100%
Uncontrolled Potential to Emit:							138.18		605.24		30.39	
****Control Efficiency:							95%		95%		95%	
Controlled Emissions:							6.91		30.26		1.52	

METHODOLOGY

Pounds of VOC per Gallon Coating = Density (lbs/gal) * Weight % Organics
 PTE of VOC before Control (lbs/hr) = Pounds of VOC per Gallon coating (lbs/gal) * Max. Throughput (unit/hr) * Max. Usage (gal/unit)
 PTE of VOC before Control (lbs/day) = Pounds of VOC per Gallon coating (lbs/gal) * Max. Throughput (unit/hr) * Max. Usage (gal/unit) * (24 hr/day)
 PTE of VOC before Control (tons/yr) = Pounds of VOC per Gallon coating (lbs/gal) * Max. Throughput (unit/hr) * Max. Usage (gal/unit) * (8760 hr/yr) * (1 ton/2000 lbs)
 PTE of PM/PM10 before Control (lbs/hr) = Max. Throughput (unit/hr) * Max. Usage (gal/unit) * Density (lbs/gal) * (1- Weight % Volatile) * (1-Transfer efficiency)
 PTE of PM/PM10 before Control (tons/yr) = Max. Throughput (unit/hr) * Max. Usage (gal/unit) * Density (lbs/gal) * (1- Weight % Volatile) * (1-Transfer efficiency) * (8760 hrs/yr) * (1 ton/2000 lbs)

NOTES

* This is the total usage for spray booths EU-03, EU-04, and EU-05.
 **Assume all the PM emissions are PM10 and PM2.5 emissions.
 ** Under the Part 70 Permit program (40 CFR 70), particulate matter with an aerodynamic diameter less than or equal to a nominal 10 micrometers (PM10), not particulate matter (PM), is considered as a "regulated air pollutant".
 US EPA has directed states to regulate PM10 emissions as surrogate for PM2.5 emissions.
 *** HVLP application method is used in this booth. The transfer efficiency is from an HVLP document prepared by BINKS.
 Note: These spray booths will be controlled by dryer filters and a RTO (EU-07).

HAP Emissions

Material	Density (lbs/gal)	Maximum Usage (gal/hr)*	Weight % Ethylbenzene	PTE of Ethylbenzene (tons/yr)	Weight % Formaldehyde	PTE of Formaldehyde (tons/yr)	Weight % MEK	PTE of MEK (tons/yr)	Weight % MIBK	PTE of MIBK (tons/yr)	Weight % Toluene	PTE of Toluene (tons/yr)	Weight % Xylene	PTE of Xylene (tons/yr)
Base Coat (Worst Case)	7.81	6.01	3.00%	6.17	1.00%	2.06	2.00%	4.11	60.0%	123			15.0%	30.8
Cover Coat (Worst Case)	8.25	6.01	3.00%	6.51							60.0%	130	15.0%	32.6
Reducer - Toluene	7.26	3.61									100%	115		
Reducer - Xylene	7.25	3.61	25.0%	28.6									75.0%	85.9
Reducer - MEK	6.74	0.96					100%	28.4						
Clean Up Solvent - Toluene	7.26	0.19									100%	6.12		
Clean Up Solvent - MEK	6.74	0.19					100%	5.68						
Uncontrolled Potential to Emit:				41.31		2.06		38.17		123.35		251.07		149.29
****Control Efficiency:				95%		95%		95%		95%		95%		95%
Controlled Emissions:				2.07		0.10		1.91		6.17		12.55		7.46

METHODOLOGY

PTE of HAP before Control (tons/yr) = Density (lbs/gal) x Max. Usage (gal/hr) x Weight % HAP x 8760 hr/yr x 1 ton/2000 lbs
 PTE of HAP after Control (tons/yr) = Density (lbs/gal) x Max. Usage (gal/hr) x Weight % HAP x 8760 hr/yr x 1 ton/2000 lbs * (1-control Efficiency)

NOTES

* The total anticipated usage for spray coating lines EU-12, EU-13, and EU-14 based on 03/08 usage of spray coating operations EU-01, EU-02, EU-03, EU-04, EU-05, EU-09, EU-10 and EU-11.
 ****These spray booths will be controlled by dryer filters and an RTO (EU-07).

Total Uncontrolled HAPs:	523.70	tons/yr
****Control Efficiency:	95%	
Total Controlled HAPs:	26.19	tons/yr

Appendix A: Emission Calculations From Spray Coating Lines EU-09, EU-10, EU-11

Company Name: Parts Finishing Group - Indiana
Address City IN Zip: 210 S. Progress Drive East, Kendallville, IN 46755
FESOP No.: F113-20355-00084
Revision No.: F113-27000-00084
Reviewer: Hannah L. Desrosiers
Date: September 17, 2008

VOC and PM/PM10 Emissions

Material	Density (lbs/gal)	Weight % Volatile (H ₂ O & Organics)	Weight % Water	Weight % Organics	Maximum Usage (gal/hr)*	Pounds VOC per gallon of coating	PTE of VOC (lbs/hr)	PTE of VOC (lbs/day)	PTE of VOC (tons/yr)	PTE of PM/PM10** (lbs/hr)	PTE of PM/PM10** (tons/yr)	Transfer Efficiency***
Base Coat (Worst Case)	7.81	81.0%	0.0%	81.0%	6.01	6.33	38.0	912	167	3.12	13.7	65%
Cover Coat (Worst Case)	8.25	78.0%	0.0%	78.0%	6.01	6.44	38.7	928	169	3.82	16.7	65%
Reducer - Toluene	7.26	100%	0.0%	100%	3.61	7.26	26.2	628	115	0.00	0.00	100%
Reducer - Xylene	7.25	100%	0.0%	100%	3.61	7.25	26.1	627	115	0.00	0.00	100%
Reducer - MEK	6.74	100%	0.0%	100%	0.96	6.74	6.48	156	28.4	0.00	0.00	100%
Clean Up Solvent - Toluene	7.26	100%	0.0%	100%	0.19	7.26	1.40	33.5	6.12	0.00	0.00	100%
Clean Up Solvent - MEK	6.74	100%	0.0%	100%	0.19	6.74	1.30	31.1	5.68	0.00	0.00	100%
Uncontrolled Potential to Emit:							138.18		605.24		30.39	
****Control Efficiency:							95%		95%		95%	
Controlled Emissions:							6.91		30.26		1.52	

METHODOLOGY

Pounds of VOC per Gallon Coating = Density (lbs/gal) * Weight % Organics
 PTE of VOC before Control (lbs/hr) = Pounds of VOC per Gallon coating (lbs/gal) * Max. Throughput (unit/hr) * Max. Usage (gal/unit)
 PTE of VOC before Control (lbs/day) = Pounds of VOC per Gallon coating (lbs/gal) * Max. Throughput (unit/hr) * Max. Usage (gal/unit) * (24 hr/day)
 PTE of VOC before Control (tons/yr) = Pounds of VOC per Gallon coating (lbs/gal) * Max. Throughput (unit/hr) * Max. Usage (gal/unit) * (8760 hr/yr) * (1 ton/2000 lbs)
 PTE of PM/PM10 before Control (lbs/hr) = Max. Throughput (unit/hr) * Max. Usage (gal/unit) * Density (lbs/gal) * (1- Weight % Volatile) * (1-Transfer efficiency)
 PTE of PM/PM10 before Control (tons/yr) = Max. Throughput (unit/hr) * Max. Usage (gal/unit) * Density (lbs/gal) * (1- Weight % Volatile) * (1-Transfer efficiency) * (8760 hrs/yr) * (1 ton/2000 lbs)

NOTES

* This is the total usage for spray booths EU-03, EU-04, and EU-05.
 **Assume all the PM emissions are PM10 and PM2.5 emissions.
 *** Under the Part 70 Permit program (40 CFR 70), particulate matter with an aerodynamic diameter less than or equal to a nominal 10 micrometers (PM10), not particulate matter (PM), is considered as a "regulated air pollutant".
 US EPA has directed states to regulate PM10 emissions as surrogate for PM2.5 emissions.
 *** HVLP application method is used in this booth. The transfer efficiency is from an HVLP document prepared by BINKS.
 Note: These spray booths will be controlled by dryer filters and a RTO (EU-07).

HAP Emissions

Material	Density (lbs/gal)	Maximum Usage (gal/hr)*	Weight % Ethylbenzene	PTE of Ethylbenzene (tons/yr)	Weight % Formaldehyde	PTE of Formaldehyde (tons/yr)	Weight % MEK	PTE of MEK (tons/yr)	Weight % MIBK	PTE of MIBK (tons/yr)	Weight % Toluene	PTE of Toluene (tons/yr)	Weight % Xylene	PTE of Xylene (tons/yr)
Base Coat (Worst Case)	7.81	6.01	3.00%	6.17	1.00%	2.06	2.00%	4.11	60.0%	123			15.0%	30.8
Cover Coat (Worst Case)	8.25	6.01	3.00%	6.51							60.0%	130	15.0%	32.6
Reducer - Toluene	7.26	3.61									100%	115		
Reducer - Xylene	7.25	3.61	25.0%	28.6									75.0%	85.9
Reducer - MEK	6.74	0.96					100%	28.4						
Clean Up Solvent - Toluene	7.26	0.19									100%	6.12		
Clean Up Solvent - MEK	6.74	0.19					100%	5.68						
Uncontrolled Potential to Emit:				41.31		2.06		38.17		123.35		251.07		149.29
****Control Efficiency:				95%		95%		95%		95%		95%		95%
Controlled Emissions:				2.07		0.10		1.91		6.17		12.55		7.46

METHODOLOGY

PTE of HAP before Control (tons/yr) = Density (lbs/gal) x Max. Usage (gal/hr) x Weight % HAP x 8760 hr/yr x 1 ton/2000 lbs
 PTE of HAP after Control (tons/yr) = Density (lbs/gal) x Max. Usage (gal/hr) x Weight % HAP x 8760 hr/yr x 1 ton/2000 lbs * (1-control Efficiency)

Total Uncontrolled HAPs:	523.70	tons/yr
****Control Efficiency:	95%	
Total Controlled HAPs:	26.19	tons/yr

NOTES

* The total anticipated usage for spray coating lines EU-12, EU-13, and EU-14 based on 03/08 usage of spray coating operations EU-01, EU-02, EU-03, EU-04, EU-05, EU-09, EU-10 and EU-11.
 ****These spray booths will be controlled by dryer filters and an RTO (EU-07).