INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
We Protect Hoosiers and Our Environment.
100 N. Senate Avenue • Indianapolis, IN 46204
(800) 451-6027 • (317) 232-8603 • www.idem.IN.gov

Michael R. Pence
Governor

Thomas W. Easterly
Commissioner

TO: Interested Parties / Applicant

DATE: April 2, 2014

RE: Imagineering Enterprises, Inc. / 141-33450-00574

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

Notice of Decision: Approval – Effective Immediately

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

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

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

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

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

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

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

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

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

Enclosures
FNTV-PMOD.doc 6/13/2013

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Commissioner

Ms. Jacinda Edman
Imagineering Enterprises, Inc.
1302 W. Sample Street
South Bend, IN 46619

April 2, 2014

Re: 141-33450-00574
Significant Permit Modification to
Part 70 No.: T141-29765-00574

Dear Ms. Edman:

Imagineering Enterprises, Inc. was issued a Part 70 Operating Permit No. 141-29765-00574 on January 13, 2011, for a stationary metal fabrication facility and surface coating operation located at 3722 Foundation Court, South Bend, Indiana 46628. An application requesting changes to this permit was received on July 8, 2013. Pursuant to the provisions of 326 IAC 2-7-12, a significant permit modification to this permit is hereby approved as described in the attached Technical Support Document.

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

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 Brandon Miller, of my staff, at 317-234-5373 or 1-800-451-6027, and ask for extension 4-5373.

Sincerely,

for IC

Iryn Calilung, Section Chief
Permits Branch
Office of Air Quality

Attachment(s): Updated Permit, Technical Support Document and Appendix A

IC/bdm

cc: File - St. Joseph County
St. Joseph County Health Department
U.S. EPA, Region V
Compliance and Enforcement Branch
Billing, Licensing and Training Section
IDEM Northern Regional Office

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Michael R. Pence
Governor

Thomas W. Easterly
Commissioner

Part 70 Operating Permit

OFFICE OF AIR QUALITY

Imagineering Enterprises, Inc.
3722 Foundation Court
South Bend, Indiana 46628

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

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

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

Operation Permit No.: T141-29765-00574	
Issued by: Original Signed Tripurari P. Sinha, Ph. D., Section Chief Permits Branch, Office of Air Quality	Issuance Date: January 13, 2011 Expiration Date: January 13, 2016

First Administrative Amendment No. 141-30369-00574, issued on March 30, 2011;
Temporary Operation No. 141-30728-00574, issued on August 5, 2011;
First Significant Permit Modification No. 141-30756-00574, issued on January 30, 2012; and
Second Administrative Amendment No. 141-31597-00574, issued on March 30, 2012.

Second Significant Permit Modification No.: 141-33450-00574	
Issued by: for IC Iryn Calilung, Section Chief, Permits Branch Office of Air Quality	Issuance Date: April 2, 2014 Expiration Date: January 13, 2016

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Certification
Emergency Occurrence Report
Quarterly Reports

Attachment A: National Emission Standards for Hazardous Air Pollutants for Paint Stripping and Miscellaneous Surface Operations at areas source [40 CFR Part 63, Subpart HHHHHH]

Attachment B: National Emission Standards for Hazardous Air Pollutants for Area Source Standards for Plating and Polishing Operations [40 CFR Part 63, Subpart WWWWWW]

SECTION A SOURCE SUMMARY

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

A.1 General Information [326 IAC 2-7-4(c)][326 IAC 2-7-5(14)][326 IAC 2-7-1(22)]

The Permittee owns and operates a stationary metal treatment facility and surface coating operation.

Source Address:	3722 Foundation Court, South Bend, Indiana 46628
General Source Phone Number:	574-287-0642
SIC Code:	3479 (Metal Coating and Allied Services)
County Location:	St. Joseph
Source Location Status:	Attainment for all criteria pollutants
Source Status:	Part 70 Operating Permit Program Minor Source, under PSD and Nonattainment NSR Rule 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 2-7-4(c)(3)][326 IAC 2-7-5(14)]

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

(a) One (1) Passivation Operation, identified as PS-1, constructed in 2011, consisting of ten (10) tanks, with a maximum volume of 400 gallons.

(b) One (1) Etching Operation, identified as ET-1, constructed in 2011, consisting of nine (9) tanks, with a maximum volume of 300 gallons.

(c) One (1) CARC coating line, constructed in 2011, with particulate emissions controlled by dry filters, consisting of the following units:

(1) Four (4) spray booths, identified as (EU-01 through EU-04), with a maximum capacity of 50 units per hour each, exhausting to stacks EU-01 through EU-04, respectively;

(2) One (1) touch-up spray booth, identified as EU-05, with a maximum capacity of 10 units per hour, exhausting to stack EU-05 and

(3) One (1) burn-off oven, identified as BO-1, approved for construction in 2011, with a maximum heat input capacity of 0.80 mmBtu//hr, with emissions exhausting through stack B0-1.

(d) One (1) abrasive blasting operation, identified as AB-1, approved for construction in 2014, with a maximum capacity of 500 pounds of blasting material (aluminum oxide) per hour, with emissions controlled by a dust collector, exhausting inside.

(e) One (1) powder coating operation, identified as PP-1, approved for construction in 2014, with a maximum capacity of 5.75 pounds of powder per hour, with emissions controlled by a baghouse, exhausting through stack PP-1.

(f) Two (2) natural gas-fired cure ovens, identified as CO-1 and CO-2, constructed in 2011, with maximum heat input capacities of 3.0 MMBtu/hr, each, with emissions exhausting through stacks CO-1 and CO-2, respectively.

(g) One (1) natural gas-fired boiler, identified as B-1, constructed in 2011, used for process heat, with a maximum heat input capacity of 3.65 MMBtu/hr, with emissions exhausting through stack B-1.

(h) Seven (7) natural gas-fired space heaters, identified as B-2 and B-4 through B-9, constructed in 2011, with maximum heat input capacities of 0.22 MMBtu/hr, 0.20 MMBtu/hr, 0.32 MMBtu/hr, 0.20 MMBtu/hr, 0.20 MMBtu/hr, 2.00 MMBtu/hr, and 0.20 MMBtu/hr, respectively, with emissions exhausting through stacks B-2 and B-4 through B-9, respectively.

(i) One (1) new blasting operation consisting of the following:

(1) One (1) blasting room, identified as BR, approved for construction in 2014, using glass, plastic bead, or aluminum oxide media, with a maximum abrasive usage of five hundred (500) pounds per hour and five hundred (500) pounds of metal per hour, for a combined process weight rate of 0.5 tons per hour, exhausting to a baghouse as control which exhausts indoors. The baghouse has a 1,200 cubic feet per minute capacity.

(2) Three (3) small cabinet blasters, identified as SCB1, SCB2, and SCB3, approved for construction in 2014, using glass, plastic bead, or aluminum oxide media, with a maximum abrasive usage of ten (10) pounds per hour, each, and ninety (90) pounds of metal per hour, each, for a combined process weight rate of 100 pounds per hour, each, exhausting to a dust collector, each, as control which exhaust indoors. The dust collectors have a 800 cubic feet per minute capacity.

(3) One (1) large cabinet blaster, identified as LCB1, approved for construction in 2014, using glass, plastic bead, or aluminum oxide media, with a maximum abrasive usage of twenty-five (25) pounds per hour and seventy-five (75) pounds of metal per hour, for a combined process weight rate of 100 pounds per hour, exhausting to a dust collector as control which exhausts indoors. The dust collector has a 850 cubic feet per minute capacity.

(4) One (1) tumble blaster, identified as TB1, approved for construction in 2014, using aluminum oxide media, with a maximum abrasive usage of ten (10) pounds per hour and ninety (90) pounds of metal per hour, for a combined process weight rate of 100 pounds per hour, exhausting to a dust collector as control which exhausts indoors. The dust collector has a 800 cubic feet per minute capacity.

(5) One (1) wet blaster, identified as WB1, approved for construction in 2014, using vermiculite media, operating wet when in use, with a maximum abrasive usage of ten (10) pounds per hour and ninety (90) pounds of metal, for a combined process weight rate of 100 pounds per hour, exhausting to a baghouse as control which exhaust indoors.

(j) One (1) spray booth, identified as EU-6, approved for construction in 2014, utilizing a high volume, low pressure (HVLP) applicator, with a maximum capacity of 80 metal units per hour, using dry filters to control particulate overspray, and exhausting to stack EU6S.

The spray booth EU-6 is considered a new affected source under 40 CFR 63, Subpart HHHHHH.

(k) One (1) spray booth, identified as EU-7, approved for construction in 2014, utilizing a high volume, low pressure (HVLP) applicator, with a maximum capacity of 80 metal units per hour, using dry filters to control particulate overspray, and exhausting to stack EU7S.

The spray booth EU-7 is considered a new affected source under 40 CFR 63, Subpart HHHHHH.

(l) One (1) spray booth, identified as EU-8, approved for construction in 2014, utilizing a high volume, low pressure (HVLP) applicator, with a maximum capacity of 80 metal units per hour, using dry filters to control particulate overspray, and exhausting to stack EU8S.

The spray booth EU-8 is considered a new affected source under 40 CFR 63, Subpart HHHHHH.

(m) One (1) spray booth, identified as EU-9, approved for construction in 2014, utilizing a high volume, low pressure (HVLP) applicator, with a maximum capacity of 80 metal units per hour, using dry filters to control particulate overspray, and exhausting to stack EU9S.

The spray booth EU-9 is considered a new affected source under 40 CFR 63, Subpart HHHHHH.

(n) One (1) spray booth, identified as EU-10, approved for construction in 2014, utilizing a high volume, low pressure (HVLP) applicator, with a maximum capacity of 80 metal units per hour, using dry filters to control particulate overspray, and exhausting to stack EU10S.

The spray booth EU-10 is considered a new affected source under 40 CFR 63, Subpart HHHHHH.

(o) One (1) spray booth, identified as EU-11, approved for construction in 2014, utilizing a high volume, low pressure (HVLP) applicator, with a maximum capacity of 80 metal units per hour, using dry filters to control particulate overspray, and exhausting to stack EU11S.

The spray booth EU-11 is considered a new affected source under 40 CFR 63, Subpart HHHHHH.

(p) One (1) parts cleaning operation, consisting of six (6) fifteen (15) gallon tubs, identified as C1 through C6, and one (1) one thousand seven hundred (1,700) gallon tank, identified as C7, approved for construction in 2014, utilizing a diluted hydrofluoric and nitric acid solution and rinse, exhausting indoors.

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

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

(a) Degreasing operations that do not exceed 145 gallons per 12 consecutive months, except if subject to 325 IAC 20-6. [326 IAC 8-3-2] [326 IAC 8-3-8]

(b) Paved and unpaved roads and parking lots with public access. [326 IAC 6-4]

(c) One (1) natural gas-fired air makeup unit, identified as AM-1, with a 8.8 MMBtu/hr heat input rating, approved for construction in 2014, exhausting indoors. [326 IAC 6.5]

(d) One (1) manganese dipping line, consisting of twenty-two (22) tanks, approved for construction in 2014, with varying chemicals used in each tank, exhausting indoors.

The manganese dipping line is considered a new affected source under 40 CFR 63, Subpart WWWWWW.

(e) Two (2) natural gas-fired air makeup units, identified as AM-2 and AM-3, with a 4.0 MMBtu/hr heat input rating, each, constructed in 2011 and exhausting indoors. [326 IAC 6.5]

(f) One (1) natural gas-fired boiler, identified as B-10, with a 8.65 MMBtu/hr heat input rating, approved for construction in 2014, exhausting to stack B-1. [326 IAC 6.5]

A.4 Insignificant Activities:

This stationary source also includes the following insignificant activities:

(a) One (1) Chem-film line, constructed in 2007.

(b) One (1) phosphate line, consisting of thirteen (13) tanks, constructed in 2012 and approved for construction in 2014, with varying chemicals used in each tank, using a scrubber as a control device.

Note: There are twelve (12) existing tanks that were constructed in 2012 and one (1) new tank approved for construction in 2014. Two (2) of the existing twelve (12) tanks actually have emissions.

(c) Four (4) electric ovens approved for construction in 2014.

A.5 Part 70 Permit Applicability [326 IAC 2-7-2]

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

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

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

SECTION B GENERAL CONDITIONS

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

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

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

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

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

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

(a) The attached Affidavit of Construction shall be submitted to the Office of Air Quality (OAQ), verifying that the emission units were constructed as proposed in the application or the permit. The emission units covered in this permit may begin operating on the date the Affidavit of Construction is postmarked or hand delivered to IDEM if constructed as proposed.

(b) If actual construction of the emission units differs from the construction proposed in the application, the source may not begin operation until the permit has been revised pursuant to 326 IAC 2 and an Operation Permit Validation Letter is issued.

(c) The Permittee shall attach the Operation Permit Validation Letter received from the Office of Air Quality (OAQ) to this permit.

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

(a) The Part 70 Operating Permit, T141-29765-00574, is issued for a fixed term of five (5) years from the issuance date of this permit, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date of this permit.

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

B.5 Term of Conditions [326 IAC 2-1.1-9.5]

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

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

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

B.6 Enforceability [326 IAC 2-7-7] [IC 13-17-12]

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

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

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

B.8 Property Rights or Exclusive Privilege [326 IAC 2-7-5(6)(D)]

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

B.9 Duty to Provide Information [326 IAC 2-7-5(6)(E)]

(a) The Permittee shall furnish to IDEM, OAQ, within a reasonable time, any information that IDEM, OAQ may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. Upon request, the Permittee shall also furnish to IDEM, OAQ copies of records required to be kept by this permit.

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

B.10 Certification [326 IAC 2-7-4(f)][326 IAC 2-7-6(1)][326 IAC 2-7-5(3)(C)]

(a) A certification required by this permit meets the requirements of 326 IAC 2-7-6(1) if:

(1) it contains a certification by a "responsible official" as defined by 326 IAC 2-7-1(35), and

(2) the certification states that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

(b) The Permittee may use the attached Certification Form, or its equivalent with each submittal requiring certification. One (1) certification may cover multiple forms in one (1) submittal.

(c) A "responsible official" is defined at 326 IAC 2-7-1(35).

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

(a) The Permittee shall annually submit a compliance certification report which addresses the status of the source's compliance with the terms and conditions contained in this permit, including emission limitations, standards, or work practices. The initial certification shall cover the time period from the date of final permit issuance through December 31 of the same year. All subsequent certifications shall cover the time period from January 1 to December 31 of the previous year, and shall be submitted no later than April 15 of each year to:

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

and

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

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

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

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

(2) The compliance status;

(3) Whether compliance was continuous or intermittent;

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

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

The submittal by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

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

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

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

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

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

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

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

The PMP extension notification does not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

The Permittee shall implement the PMPs.

(b) A copy of the PMPs shall be submitted to IDEM, OAQ upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or is the primary contributor to an exceedance of any limitation on emissions. The PMPs and their submittal do not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

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

B.13 Emergency Provisions [326 IAC 2-7-16]

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

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

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

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

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

(4) For each emergency lasting one (1) hour or more, the Permittee notified IDEM, OAQ, or Northern Regional Office no later than four (4) daytime business hours after the beginning of the emergency, or after the emergency was discovered or reasonably should have been discovered;

Telephone Number: 1-800-451-6027 (ask for Office of Air Quality, Compliance and Enforcement Branch), or
Telephone Number: 317-233-0178 (ask for Office of Air Quality, Compliance and Enforcement Branch)
Facsimile Number: 317-233-6865
Northern Regional Office phone: (574) 245-4870; fax: (574) 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 and Enforcement Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

no later than two (2) working days of the time when emission limitations were exceeded due to the emergency.

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

(A) A description of the emergency;

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

(C) Corrective actions taken.

The notification which shall be submitted by the Permittee does not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

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

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

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

(e) The Permittee seeking to establish the occurrence of an emergency shall make records available upon request to ensure that failure to implement a PMP did not cause or contribute to an exceedance of any limitations on emissions. However, IDEM, OAQ may require that the Preventive Maintenance Plans required under 326 IAC 2-7-4(c)(8) be revised in response to an emergency.

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

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

B.14 Permit Shield [326 IAC 2-7-15][326 IAC 2-7-20][326 IAC 2-7-12]

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

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

(b) If, after issuance of this permit, it is determined that the permit is in nonconformance with an applicable requirement that applied to the source on the date of permit issuance, IDEM, OAQ, shall immediately take steps to reopen and revise this permit and issue a compliance order to the Permittee to ensure expeditious compliance with the applicable requirement until the permit is reissued. The permit shield shall continue in effect so long as the Permittee is in compliance with the compliance order.

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

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

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

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

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

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

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

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

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

B.15 Prior Permits Superseded [326 IAC 2-1.1-9.5][326 IAC 2-7-10.5]

(a) All terms and conditions of permits established prior to 141-29765-00574 and issued pursuant to permitting programs approved into the state implementation plan have been either:

(1) incorporated as originally stated,

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

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

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

B.16 Termination of Right to Operate [326 IAC 2-7-10][326 IAC 2-7-4(a)]

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

B.17 Permit Modification, Reopening, Revocation and Reissuance, or Termination [326 IAC 2-7-5(6)(C)][326 IAC 2-7-8(a)][326 IAC 2-7-9]

(a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a Part 70 Operating Permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any condition of this permit. [326 IAC 2-7-5(6)(C)] The notification by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

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

(1) That this permit contains a material mistake.

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

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

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

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

B.18 Permit Renewal [326 IAC 2-7-3][326 IAC 2-7-4][326 IAC 2-7-8(e)]

(a) The application for renewal shall be submitted using the application form or forms prescribed by IDEM, OAQ and shall include the information specified in 326 IAC 2-7-4. Such information shall be included in the application for each emission unit at this source, except those emission units included on the trivial or insignificant activities list contained in 326 IAC 2-7-1(21) and 326 IAC 2-7-1(40). The renewal application does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

Request for renewal shall be submitted to:

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

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

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

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

(c) If the Permittee submits a timely and complete application for renewal of this permit, the source's failure to have a permit is not a violation of 326 IAC 2-7 until IDEM, OAQ takes final action on the renewal application, except that this protection shall cease to apply if, subsequent to the completeness determination, the Permittee fails to submit by the deadline specified, pursuant to 326 IAC 2-7-4(a)(2)(D), in writing by IDEM, OAQ any additional information identified as being needed to process the application.

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

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

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

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

Any such application does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

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

B.20 Permit Revision Under Economic Incentives and Other Programs [326 IAC 2-7-5(8)][326 IAC 2-7-12(b)(2)]

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

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

B.21 Operational Flexibility [326 IAC 2-7-20][326 IAC 2-7-10.5]

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

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

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

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

(4) The Permittee notifies the:

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

and

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

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

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

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

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

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

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

(3) Any change in emissions; and

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

The notification which shall be submitted is not considered an application form, report or compliance certification. Therefore, the notification by the Permittee does not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

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

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

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

B.22 Source Modification Requirement [326 IAC 2-7-10.5]

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

B.23 Inspection and Entry [326 IAC 2-7-6][IC 13-14-2-2][IC 13-30-3-1][IC 13-17-3-2]

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

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

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

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

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

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

B.24 Transfer of Ownership or Operational Control [326 IAC 2-7-11]

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

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

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

Any such application does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

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

B.25 Annual Fee Payment [326 IAC 2-7-19] [326 IAC 2-7-5(7)][326 IAC 2-1.1-7]

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

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

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

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

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

SECTION C SOURCE OPERATION CONDITIONS

Entire Source

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

C.1 Opacity [326 IAC 5-1]

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

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

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

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

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

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

The Permittee shall not operate an incinerator except as provided in 326 IAC 4-2 or in this permit. The Permittee shall not operate a refuse incinerator or refuse burning equipment except as provided in 326 IAC 9-1-2 or in this permit.

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

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

C.5 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M]

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

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

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

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

(A) Asbestos removal or demolition start date;

(B) Removal or demolition contractor; or

(C) Waste disposal site.

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

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

All required notifications shall be submitted to:

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

The notice shall include a signed certification from the owner or operator that the information provided in this notification is correct and that only Indiana licensed workers and project supervisors will be used to implement the asbestos removal project. The notifications do not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

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

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

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

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

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

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

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

no later than thirty-five (35) days prior to the intended test date. The protocol submitted by the Permittee does not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

(b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14) days prior to the actual test date. The notification submitted by the Permittee does not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

(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.7 Compliance Requirements [326 IAC 2-1.1-11]

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

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

C.8 Compliance Monitoring [326 IAC 2-7-5(3)][326 IAC 2-7-6(1)] [40 CFR 64] [326 IAC 3-8]

(a) For new units:
Unless otherwise specified in the approval for the new emission unit(s), compliance monitoring for new emission units shall be implemented on and after the date of initial start-up.

(b) For existing units:

Unless otherwise specified in this permit, for all monitoring requirements not already legally required, the Permittee shall be allowed up to ninety (90) days from the date of permit issuance to begin such monitoring. If due to circumstances beyond the Permittee's control, any monitoring equipment required by this permit cannot be installed and operated no later than ninety (90) days after permit issuance the Permittee may extend the compliance schedule related to the equipment for an additional ninety (90) days provided the Permittee notifies:

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

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

The notification which shall be submitted by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

(c) For monitoring required by CAM, at all times, the Permittee shall maintain the monitoring, including but not limited to, maintaining necessary parts for routine repairs of the monitoring equipment.

(d) For monitoring required by CAM, except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments), the Permittee shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the pollutant-specific emissions unit is operating. Data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities shall not be used for purposes of this part, including data averages and calculations, or fulfilling a minimum data availability requirement, if applicable. The owner or operator shall use all the data collected during all other periods in assessing the operation of the control device and associated control system. A monitoring malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring to provide valid data. Monitoring failures that are caused in part by poor maintenance or careless operation are not malfunctions.

C.9 Instrument Specifications [326 IAC 2-1.1-11] [326 IAC 2-7-5(3)] [326 IAC 2-7-6(1)]

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

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

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

C.10 Emergency Reduction Plans [326 IAC 1-5-2] [326 IAC 1-5-3]

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

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

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

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

no later than 180 days from the date on which this source commences operation.

The ERP does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

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

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

(e) Said ERPs shall also identify the sources of air pollutants, the approximate amount of reduction of the pollutants, and a brief description of the manner in which the reduction will be achieved.

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

C.11 Risk Management Plan [326 IAC 2-7-5(11)] [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.12 Response to Excursions or Exceedances [40 CFR 64] [326 IAC 2-7-5] [326 IAC 2-7-5] [326 IAC 2-7-6]

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

(a) The Permittee shall take reasonable response steps to restore operation of the emissions unit (including any control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing excess emissions.

(b) The response shall include minimizing the period of any startup, shutdown or malfunction. The response may include, but is not limited to, the following:

(1) initial inspection and evaluation;

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

(3) any necessary follow-up actions to return operation to normal or usual manner of operation.

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

(1) monitoring results;

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

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

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

(e) The Permittee shall record the reasonable response steps taken.

(II)

(a) CAM Response to excursions or exceedances.

(1) Upon detecting an excursion or exceedance, subject to CAM, the Permittee shall restore operation of the pollutant-specific emissions unit (including the control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions. The response shall include minimizing the period of any startup, shutdown or malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). Such actions may include initial inspection and evaluation, recording that operations returned to normal without operator action (such as through response by a computerized distribution control system), or any necessary follow-up actions to return operation to within the indicator range, designated condition, or below the applicable emission limitation or standard, as applicable.

(2) Determination of whether the Permittee has used acceptable procedures in response to an excursion or exceedance will be based on information available, which may include but is not limited to, monitoring results, review of operation and maintenance procedures and records, and inspection of the control device, associated capture system, and the process.

(b) If the Permittee identifies a failure to achieve compliance with an emission limitation, subject to CAM, or standard, subject to CAM, for which the approved monitoring did not provide an indication of an excursion or exceedance while providing valid data, or the results of compliance or performance testing document a need to modify the existing indicator ranges or designated conditions, the Permittee shall promptly notify the IDEM, OAQ and, if necessary, submit a proposed significant permit modification to this permit to address the necessary monitoring changes. Such a modification may include, but is not limited to, reestablishing indicator ranges or designated conditions, modifying the frequency of conducting monitoring and collecting data, or the monitoring of additional parameters.

(c) Based on the results of a determination made under paragraph (II)(a)(2) of this condition, the EPA or IDEM, OAQ may require the Permittee to develop and implement a QIP. The Permittee shall develop and implement a QIP if notified to in writing by the EPA or IDEM, OAQ.

(d) Elements of a QIP:
The Permittee shall maintain a written QIP, if required, and have it available for inspection. The plan shall conform to 40 CFR 64.8 b (2).

(e) If a QIP is required, the Permittee shall develop and implement a QIP as expeditiously as practicable and shall notify the IDEM, OAQ if the period for completing the improvements contained in the QIP exceeds 180 days from the date on which the need to implement the QIP was determined.

(f) Following implementation of a QIP, upon any subsequent determination pursuant to paragraph (II)(a)(2) of this condition the EPA or the IDEM, OAQ may require

that the Permittee make reasonable changes to the QIP if the QIP is found to have:

(1) Failed to address the cause of the control device performance problems; or

(2) Failed to provide adequate procedures for correcting control device performance problems as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions.

(g) Implementation of a QIP shall not excuse the Permittee from compliance with any existing emission limitation or standard, or any existing monitoring, testing, reporting or recordkeeping requirement that may apply under federal, state, or local law, or any other applicable requirements under the Act.

(h) CAM recordkeeping requirements.

(1) The Permittee shall maintain records of monitoring data, monitor performance data, corrective actions taken, any written quality improvement plan required pursuant to paragraph (II)(a)(2) of this condition and any activities undertaken to implement a quality improvement plan, and other supporting information required to be maintained under this condition (such as data used to document the adequacy of monitoring, or records of monitoring maintenance or corrective actions). Section C - General Record Keeping Requirements of this permit contains the Permittee's obligations with regard to the records required by this condition.

(2) Instead of paper records, the owner or operator may maintain records on alternative media, such as microfilm, computer files, magnetic tape disks, or microfiche, provided that the use of such alternative media allows for expeditious inspection and review, and does not conflict with other applicable recordkeeping requirements.

C.13 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-7-5][326 IAC 2-7-6]

(a) When the results of a stack test performed in conformance with Section C - Performance Testing, of this permit exceed the level specified in any condition of this permit, the Permittee shall submit a description of its response actions to IDEM, OAQ, no later than seventy-five (75) days after the date of the test.

(b) A retest to demonstrate compliance shall be performed no later than one hundred eighty (180) days after the date of the test. Should the Permittee demonstrate to IDEM, OAQ that retesting in one hundred eighty (180) days is not practicable, IDEM, OAQ may extend the retesting deadline.

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

The response action documents submitted pursuant to this condition do require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

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

C.14 Emission Statement [326 IAC 2-7-5(3)(C)(iii)] [326 IAC 2-7-5(7)] [326 IAC 2-7-19(c)] [326 IAC 2-6]

In accordance with the compliance schedule specified in 326 IAC 2-6-3(b)(1), starting in 2004 and every three (3) years thereafter, the Permittee shall submit no later than July 1 an emission statement covering the previous calendar year. The emission statement shall contain, at a minimum, the information specified in 326 IAC 2-6-4(c) and shall meet the following requirements:

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

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

The statement must be submitted to:

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

The emission statement does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

C.15 General Record Keeping Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-6]

(a) Records of all required monitoring data, reports and support information required by this permit shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. Support information includes the following, where applicable:

(AA) All calibration and maintenance records.
(BB) All original strip chart recordings for continuous monitoring instrumentation.
(CC) Copies of all reports required by the Part 70 permit.

Records of required monitoring information include the following, where applicable:

(AA) The date, place, as defined in this permit, and time of sampling or measurements.
(BB) The dates analyses were performed.
(CC) The company or entity that performed the analyses.
(DD) The analytical techniques or methods used.
(EE) The results of such analyses.
(FF) The operating conditions as existing at the time of sampling or measurement.

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

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

C.16 General Reporting Requirements [326 IAC 2-7-5(3)(C)] [326 IAC 2-1.1-11] [40 CFR 64][326 IAC 3-8]

(a) The Permittee shall submit the attached Quarterly Deviation and Compliance Monitoring Report or its equivalent. Proper notice submittal under Section B - Emergency Provisions satisfies the reporting requirements of this paragraph. Any deviation from permit requirements, the date(s) of each deviation, the cause of the deviation, and the response steps taken must be reported except that a deviation required to be reported pursuant to an applicable requirement that exists independent of this permit, shall be reported according to the schedule stated in the applicable requirement and does not need to be included in this report. This report shall be submitted not later than thirty (30) days after the end of the reporting period. The Quarterly Deviation and Compliance Monitoring Report shall include a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35). A deviation is an exceedance of a permit limitation or a failure to comply with a requirement of the permit.

On and after the date by which the Permittee must use monitoring that meets the requirements of 40 CFR Part 64 and 326 IAC 3-8, the Permittee shall submit CAM reports to the IDEM, OAQ.

A report for monitoring under 40 CFR Part 64 and 326 IAC 3-8 shall include, at a minimum, the information required under paragraph (a) of this condition and the following information, as applicable:

(1) Summary information on the number, duration and cause (including unknown cause, if applicable) of excursions or exceedances, as applicable, and the corrective actions taken;

(2) Summary information on the number, duration and cause (including unknown cause, if applicable) for monitor downtime incidents (other than downtime associated with zero and span or other daily calibration checks, if applicable); and

(3) A description of the actions taken to implement a QIP during the reporting period as specified in Section C-Response to Excursions or Exceedances. Upon completion of a QIP, the owner or operator shall include in the next summary report documentation that the implementation of the plan has been completed and reduced the likelihood of similar levels of excursions or exceedances occurring.

The Permittee may combine the Quarterly Deviation and Compliance Monitoring Report and a report pursuant to 40 CFR 64 and 326 IAC 3-8.

(b) The address for report submittal is:

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

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

(d) The first report shall cover the period commencing on the date of issuance of this permit or the date of initial start-up, whichever is later, and ending on the last day of the reporting period. Reporting periods are based on calendar years, unless otherwise specified in this permit. For the purpose of this permit, “calendar year” means the twelve (12) month period from January 1 to December 31 inclusive.

Stratospheric Ozone Protection

C.17 Compliance with 40 CFR 82 and 326 IAC 22-1

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

SECTION D.1 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

(a) One (1) Passivation Operation, identified as PS-1, constructed in 2011, consisting of ten (10) tanks, with a maximum volume of 400 gallons.

(b) One (1) Etching Operation, identified as ET-1, constructed in 2011, consisting of nine (9) tanks, with a maximum volume of 300 of gallons.

(c) One (1) powder coating operation, identified as PP-1, constructed in 2011, with a maximum capacity of 5.75 pounds of powder per hour, with emissions controlled by a baghouse, exhausting through stack PP-1.

(d) Seven (7) natural gas-fired space heaters, identified as B-2 and B-4 through B-9, constructed in 2011, with maximum heat input capacities of 0.22 MMBtu/hr, 0.20 MMBtu/hr, 0.32 MMBtu/hr, 0.20 MMBtu/hr, 0.20 MMBtu/hr, 2.00 MMBtu/hr, and 0.20 MMBtu/hr, respectively, with emissions exhausting through stacks B-2 and B-4 through B-9, respectively.

Insignificant Activity:

(c) One (1) natural gas-fired air makeup unit, identified as AM-1, with a 8.8 MMBtu/hr heat input rating, approved for construction in 2014, exhausting indoors. [326 IAC 6.5]

(e) Two (2) natural gas-fired air makeup units, identified as AM-2 and AM-3, with a 4.0 MMBtu/hr heat input rating, each, constructed in 2011 and exhausted indoors. [326 IAC 6.5]

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

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

D.1.1 Particulate Emission Limitations, Except Lake County [326 IAC 6.5-1-2]

(a) The particulate matter emissions from the passivation operation (PS-1) shall not exceed 0.03 gr/dscf.

(b) The particulate matter emissions from the etching operation (ET-1) shall not exceed 0.03 gr/dscf.

(c) The particulate matter emissions from the powder coating operation (PP-1) shall not exceed 0.03 gr/dscf.

(d) The particulate matter emissions from each space heater (B-2, B-4 through B-9) shall not exceed 0.03 gr/dscf.

(e) The particulate matter emissions from each natural gas-fired air makeup unit (AM-1 through AM-3) shall not exceed 0.03 gr/dscf.

SECTION D.2 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

(a) One (1) CARC coating line, constructed in 2011, with particulate emissions controlled by dry filters, consisting of the following units:

(1) Four (4) spray booths, identified as (EU-01 through EU-04), with a maximum capacity of 50 units per hour each, exhausting to stacks EU-01 through EU-04, respectively;

(2) One (1) touch-up spray booth, identified as EU-05, with a maximum capacity of 10 units per hour, exhausting to stack EU-05 and

(3) One (1) burn-off oven, identified as BO-1, approved for construction in 2011, with a maximum heat input capacity of 0.80 MMBtu/hr, with emissions exhausting through stack B0-1.

(b) Two (2) natural gas-fired cure ovens, identified as CO-1 and CO-2, constructed in 2011, with maximum heat input capacities of 3.0 MMBtu/hr, each, with emissions exhausting through stacks CO-1 and CO-2, respectively.

(j) One (1) spray booth, identified as EU-6, approved for construction in 2014, utilizing a high volume, low pressure (HVLP) applicator, with a maximum capacity of 80 metal units per hour, using dry filters to control particulate overspray, and exhausting to stack EU6S.

The spray booth EU-6 is considered a new affected source under 40 CFR 63, Subpart HHHHHH.

(k) One (1) spray booth, identified as EU-7, approved for construction in 2014, utilizing a high volume, low pressure (HVLP) applicator, with a maximum capacity of 80 metal units per hour, using dry filters to control particulate overspray, and exhausting to stack EU7S.

The spray booth EU-7 is considered a new affected source under 40 CFR 63, Subpart HHHHHH.

(l) One (1) spray booth, identified as EU-8, approved for construction in 2014, utilizing a high volume, low pressure (HVLP) applicator, with a maximum capacity of 80 metal units per hour, using dry filters to control particulate overspray, and exhausting to stack EU8S.

The spray booth EU-8 is considered a new affected source under 40 CFR 63, Subpart HHHHHH.

(m) One (1) spray booth, identified as EU-9, approved for construction in 2014, utilizing a high volume, low pressure (HVLP) applicator, with a maximum capacity of 80 metal units per hour, using dry filters to control particulate overspray, and exhausting to stack EU9S.

The spray booth EU-9 is considered a new affected source under 40 CFR 63, Subpart HHHHHH.

(n) One (1) spray booth, identified as EU-10, approved for construction in 2014, utilizing a high volume, low pressure (HVLP) applicator, with a maximum capacity of 80 metal units per hour, using dry filters to control particulate overspray, and exhausting to stack EU10S.

The spray booth EU-10 is considered a new affected source under 40 CFR 63, Subpart HHHHHH.

(o) One (1) spray booth, identified as EU-11, approved for construction in 2014, utilizing a high volume, low pressure (HVLP) applicator, with a maximum capacity of 80 metal units per hour, using dry filters to control particulate overspray, and exhausting to stack EU11S.

The spray booth EU-11 is considered a new affected source under 40 CFR 63, Subpart HHHHHH.

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

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

D.2.1 Particulate Emission Limitations, Except Lake County [326 IAC 6.5-1-2]

(a) Pursuant to 326 IAC 6.5-1-2(h), the CARC Line and the spray booths, identified as EU-6 through EU-11, shall each be controlled by dry particulate filters and the Permittee shall operate the control devices in accordance with manufacturer's specifications.

(b) Pursuant to 326 IAC 6.5-1-2(a), the particulate matter emissions from each cure oven (CO-1 and CO-2) shall not exceed 0.03 gr/dscf.

D.2.2 Miscellaneous Metals Coating [326 IAC 8-2-9]

Pursuant to 326 IAC 8-2-9 (Miscellaneous Metal and Plastic Parts Coating Operations), when surface coating miscellaneous metal parts or products on the CARC Line (EU-01 through EU-05):

(a) The Permittee shall not cause, allow, or permit the discharge into the atmosphere of any VOC in excess of the following:

(1) Fifty-two hundredths (0.52) kilogram per liter (four and three-tenths (4.3) pounds per gallon) of coating, excluding water, delivered to a coating applicator that applies clear coatings.

(2) Forty-two hundredths (0.42) kilogram per liter (three and five-tenths (3.5) pounds per gallon) of coating, excluding water, delivered to a coating applicator in a coating application system that is air dried or forced warm air dried at temperatures up to ninety (90) degrees Celsius (one hundred ninety-four (194) degrees Fahrenheit).

(3) Forty-two hundredths (0.42) kilogram per liter (three and five-tenths (3.5) pounds per gallon) of coating, excluding water, delivered to a coating applicator that applies extreme performance coatings.

(4) Thirty-six hundredths (0.36) kilogram per liter (three (3) pounds per gallon) of coating, excluding water, delivered to a coating applicator for all other coatings and coating application systems.

If more than one (1) of these emission limitations applies to a specific coating, then the least stringent emission limitation shall apply.

(b) Pursuant to 326 IAC 8-2-9(f), work practices shall be used to minimize VOC emissions from mixing operations, storage tanks, and other containers, and handling operations for coatings, thinners, cleaning materials, and waste materials. Work practices shall include, but not be limited to, the following:

(1) Store all VOC containing coatings, thinners, coating related waste, and cleaning materials in closed containers.

(2) Ensure that mixing and storage containers used for VOC containing coatings, thinners, coating related waste, and cleaning materials are kept closed at all times except when depositing or removing these materials.

(3) Minimize spills of VOC containing coatings, thinners, coating related waste, and cleaning materials.

(4) Convey VOC containing coatings, thinners, coating related waste, and cleaning materials from one (1) location to another in closed containers or pipes.

(5) Minimize VOC emissions from the cleaning of application, storage, mixing, and conveying equipment by ensuring that equipment cleaning is performed without atomizing the cleaning solvent and all spent solvent is captured in closed containers.

D.2.3 Preventive Maintenance Plan [326 IAC 2-7-5(12)]

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

D.2.4 Hazardous Air Pollutant (HAP) Emissions Minor Limit [326 IAC 2-4.1]

In order to render the requirements of 326 IAC 2-4.1 not applicable, the Permittee shall comply with the following limits:

(a) The total single HAP input to the CARC coating line and spray booths, identified as EU-6 through EU-11, shall not exceed nine and nine tenths (9.9) tons per twelve (12) consecutive month period with compliance determined at the end of each month.

(b) The total input of any combination of HAPs to the CARC coating line and spray booths, identified as EU-6 through EU-11, shall not exceed thirteen and five tenths (13.5) tons per twelve (12) consecutive month period with compliance determined at the end of each month.

Compliance with these limits, combined with the potential to emit HAPs from all other emission units at this source, shall limit the source-wide total potential to emit any single HAP to less than ten (10) tons per twelve (12) consecutive month period and total HAPs to less than twenty-five (25) tons per twelve (12) consecutive month period and shall render the requirements of 326 IAC 2-4.1 not applicable.

D.2.5 Volatile Organic Compounds (VOC) [326 IAC 8-1-1(b)] [326 IAC 2-2]

Pursuant to 326 IAC 8-1-1(b) (Volatile Organic Compounds), and in order to render the requirements of 326 IAC 2-2 (PSD) and 326 IAC 8 (Volatile Organic Compounds) not applicable, the Permittee shall comply with the following:

(a) The VOC input, including coatings, dilution solvents, and cleaning solvents, to each of the six (6) spray booths, identified as EU-6, EU-7, EU-8, EU-9, EU-10, and EU-11, shall be less than fifteen (15.0) pounds per day, each, with compliance determined at the end of each day.

Compliance with these limits, combined with the potential to emit VOC from all other emission units at this source, shall limit the source-wide total potential to emit VOC to less than 250 tons per 12 consecutive month period and shall render the requirements of 326 IAC 2-2 (PSD) and 326 IAC 8 (Volatile Organic Compounds) not applicable.

D.2.6 Incinerators [326 IAC 4-2-2]

Pursuant to 326 IAC 4-2 (Incinerators), the burn-off oven, identified as BO-1, shall:

(a) Consist of primary and secondary chambers or the equivalent;

(b) Be equipped with a primary burner unless burning wood products;

(c) Comply with 326 IAC 5-1 and 326 IAC 2;

(d) Be maintained, operated, and burn waste in accordance with the manufacturer's specifications or an operation and maintenance plan as specified in 326 IAC 4-2-2(c); and

(e) Not emit particulate matter in excess of one (1) of the following:

(1) Three-tenths (0.3) pounds of particulate matter per one thousand (1,000) pounds of dry exhaust gas under standard conditions correct to fifty percent (50%) excess air for incinerators with solid waste capacity of greater than or equal to two-hundred (200) pounds per hour.

(2) Five-tenths (0.5) pounds of particulate matter per one thousand (1,000) pounds of dry exhaust gas under standard conditions corrected to fifty percent (50%) excess air for incinerators with solid waste capacity of less than two hundred (200) pounds per hour.

(f) If any of the requirements of (a) through (e) above are not met, the Permittee shall stop charging the incinerator until adjustments are made that address the underlying cause of the deviation.

The Permittee operating the incinerator must make the manufacturer's specifications or the operation and maintenance plan available to the department upon request.

D.2.7 Carbon Monoxide Emission Limits [326 IAC 9-1-2]

Pursuant to 326 IAC 9-1-2 (Carbon Monoxide Emission Limits), the Permittee shall not operate the burn-off oven, identified as BO-1, unless the waste gas stream is burned in one of the following:

(a) Direct-flame afterburner; or

(b) Secondary chamber.

Compliance Determination Requirements

D.2.8 Control Requirements [326 IAC 2-7-6(6)]

In order to comply with Condition D.2.1, dry filters must be in operation and controlling emissions at all times that the CARC line and spray booths, identified as EU-6 through EU-11, are in operation.

D.2.9 Volatile Organic Compounds (VOC) [326 IAC 8-1-4] [326 IAC 8-1-2(a)] [326 IAC 2-2]

Compliance with the VOC content limitation contained in Conditions D.2.2 and D.2.3 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.

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

D.2.10 Monitoring [326 IAC 2-7-5(1)]

(a) Daily inspections shall be performed to verify the placement, integrity and particle loading of the filters. To monitor the performance of the dry filters, weekly observations shall be made of the overspray from the surface coating booth stacks (EU-1 through EU-5) and from the six (6) spray booth stacks EU6S, EU7S, EU8S, EU9S, EU10S, and EU11S while one or more of the booths, EU-1 through EU-11, respectively, are in operation. Failure to take response steps shall be considered a deviation from this permit. If a condition exists which should result in a response, the Permittee shall take reasonable response. Failure to take response steps shall be considered a deviation from this permit. Section C - Response to Excursions and Exceedances contains the Permittee's obligation with regard to response steps.

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

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

D.2.11 Record Keeping Requirement

(a) In order to document the compliance status with Condition D.2.10, the Permittee shall maintain a log of weekly overspray observations and daily and monthly inspections. The Permittee shall include in its record when an inspection is not taken and the reason for the lack of inspection (e.g. the process did not operate that day).

(b) In order to document the compliance status with Condition D.2.2, the Permittee shall maintain records in accordance with (1) and (2) below. Records maintained for (1) and (2) shall be taken monthly and shall be complete and sufficient to establish compliance with the VOC emission limits established in Condition D.2.2. Records necessary to demonstrate compliance shall be available within thirty (30) days of the end of each compliance period.

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

(2) The amount of coating material and solvent less water 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.

(c) In order to document the compliance status with Condition D.2.5, the Permittee shall maintain records in accordance with (1) through (5) below. Records maintained for (1) through (5) shall be taken as stated below and shall be complete and sufficient to establish compliance with the VOC usage limits established in Condition D.2.3. Records necessary to demonstrate compliance shall be available not later than thirty (30) days after the end of each compliance period.

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

(2) The amount of coating material and solvent used on a daily basis.

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

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

(3) The daily cleanup solvent usage;

(4) The total VOC usage for each day;

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

(d) In order to document the compliance status with Condition D.2.4, the Permittee shall maintain records in accordance with (1) through (4) below. Records maintained for (1) through (4) shall be taken monthly and shall be complete and sufficient to establish compliance with the HAP usage limits and/or the HAP emission limits established in Condition D.2.4. Records necessary to demonstrate compliance shall be available no later than 30 days of the end of each compliance period.

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

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

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

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

(3) The cleanup solvent usage for each month; and

(4) The total HAP usage for each month

(e) Section C - General Record Keeping Requirements contains the Permittee's obligation with regard to record keeping

D.2.12 Reporting Requirements

A quarterly summary of the information to document the compliance status with Conditions D.2.3 and D.2.5 shall be submitted not later than thirty (30) days after the end of the quarter being reported. Section C - General Reporting contains the Permittee's obligation with regard to the reporting required by this condition. The report submitted by the Permittee does not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

SECTION D.3 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

(a) One (1) abrasive blasting operation, identified as AB-1, approved for construction in 2014, with a maximum capacity of 500 pounds of blasting material (aluminum oxide) per hour, with emissions controlled by a dust collector, exhausting indoors.

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

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

D.3.1 PSD Minor Limits [326 IAC 2-2]

In order to render the requirements of 326 IAC 2-2 not applicable to the entire source, the Permittee shall comply with the following limits:

(a) PM emissions after control from the Abrasive Blasting operation (AB-1) shall not exceed 9.72 lb/hr.

(b) PM10 emissions after control from the Abrasive Blasting operation (AB-1) shall not exceed 9.72 lb/hr.

Compliance with these limits, combined with potential to emit PM and PM10 from all other emission units at this source, shall limit the source-wide total potential to emit of PM and PM10 to less than 250 tons per 12 consecutive month period and shall render 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable.

D.3.2 Particulate Emission Limitations, Except Lake County [326 IAC 6.5-1-2]

Pursuant to 326 IAC 6.5-1-2(a), the particulate matter emissions from the abrasive blasting operation shall not exceed 0.03 gr/dscf.

D.3.3 Preventive Maintenance Plan [326 IAC 2-7-5(12)]

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

Compliance Determination Requirements

D.3.4 Control Requirements [326 IAC 2-7-6(6)]

(a) In order to comply with Condition D.3.1 and Condition D.3.2, the dust collector must be in operation and controlling emissions at all times the abrasive blasting units are in operation.

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

D.3.5 Testing Requirements [326 IAC 2-7-6(1),(6)] [326 IAC 2-1.1-11]

(a) In order to demonstrate the compliance status with Condition D.3.1, within 180 days of start-up of the blasting operation, the Permittee shall perform PM testing on the dust collector using methods as approved by the Commissioner. These tests shall be

repeated at least five (5) years from the date of this valid compliance demonstration. Section C- Performance Testing contains the Permittee's obligation with regard to performance testing.

(b) In order to demonstrate compliance with Condition D.3.1, the Permittee shall perform PM10 testing for the dust collector within 180 days of publication of the new or revised condensable PM10 and PM2.5 test method(s) referenced in the U. S. EPA's Final Rule for Implementation of the New Source Review (NSR) Program for Particulate Matter Less Than 2.5 Micrometers (PM2.5), signed on May 8th, 2008 or within 180 days of issuance of this permit, whichever is later. This testing shall be conducted utilizing methods as approved by the Commissioner. These tests shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. Section C - Performance Testing contains the Permittee's obligation with regard to performance testing. PM10 includes filterable and condensable PM10.

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

D.3.6 Parametric Monitoring

The Permittee shall record the pressure drop across the dust collection system used in conjunction with the abrasive blasting operation AB-1, at least once per day when the abrasive blasting operation is in operation. When for any one reading, the pressure drop across the dust collection unit is outside the normal range of 3.0 to 8.0 inches of water, or a normal range determined during an approved compliance test, the Permittee shall take reasonable response. Section C - Response to Excursions or Exceedances contains the Permittee's obligation with regard to the reasonable response required by this condition. Failure to take response steps shall be considered a deviation from this permit.

D.3.7 Broken or Failed Bag Detection

(a) For a single compartment baghouses controlling emissions from a process operated continuously, a failed unit and the associated process shall be shut down immediately until the failed unit has been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section C- Response to Excursions or Exceedances).

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

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

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

D.3.8 Record Keeping Requirement

(a) To document the compliance status with Condition D.3.6, the Permittee shall maintain daily records of the daily pressure drop readings across the dust collection system controlling the abrasive blasting operation AB-1. The Permittee shall include in its daily record when a pressure drop reading is not taken and the reason for the lack of a pressure drop reading, (i.e. the process did not operate that day).

(b) Section C - General Record Keeping Requirements contains the Permittee's obligations with regard to the records required by this condition

SECTION D.4 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

(a) One (1) natural gas-fired boiler, identified as B-1, constructed in 2011, used for process heat, with a maximum heat input capacity of 3.65 MMBtu/hr, with emissions exhausting through stack B-1.

Insignificant Activity:

(f) One (1) natural gas-fired boiler, identified as B-10, approved for construction in 2014, with a maximum heat input capacity of 8.65 MMBtu/hr, with emissions exhausting through stack B-1. [326 IAC 6.5]

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

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

D.4.1 Particulate Emission Limitations, Except Lake County [326 IAC 6.5-1-2]

Pursuant to 326 IAC 6.5-1-2(b)(3), the particulate matter emissions from the boiler stack (B-1) shall not exceed 0.01 gr/dscf.

SECTION D.5 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

(n) One (1) parts cleaning operation, consisting of six (6) fifteen (15) gallon tubs, identified as C1 through C6, and one (1) one thousand seven hundred (1,700) gallon tank, identified as C7, approved for construction in 2014, utilizing a diluted hydrofluoric and nitric acid solution and rinse, exhausting indoors.

Specifically Regulated Insignificant Activities:
(a) Degreasing operations that do not exceed 145 gallons per 12 consecutive months, except if subject to 325 IAC 20-6. [326 IAC 8-3-2] [326 IAC 8-3-8]

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

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

D.5.1 Volatile Organic Compounds (VOC) [326 IAC 8-3-2]

Pursuant to 326 IAC 8-3-2 (Cold Cleaner Operation), the owner or operator of a cold cleaning facility (the degreasing operations that do not exceed 145 gallons per 12 months) shall:

(a) equip the cleaner with a cover;

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

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

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

(e) provide a permanent, conspicuous label summarizing the operation requirements in 326 IAC 8-3-2(a)(3), 326 IAC 8-3-2(a)(4), 326 IAC 8-3-2(a)(6), and 326 IAC 8-3-2(a)(7);

(f) store waste solvent only in closed containers;

(g) and prohibit the disposal or transfer of waste solvent in such a manner tha could allow greater than twenty percent (20%) of the waste solvent (by weight) to evaporate into the atmosphere.

Pursuant to 326 IAC 8-3-2 (Cold Cleaner Operation), the owner or operator of a cold cleaner degreaser shall ensure the following additional control equipment and operating requirements are met:

(a) Equip the degreaser with one (1) of the following control devices if the solvent is heated to a temperature of greater than forty-eight and nine-tenths (48.9) degrees Celsius (one hundred twenty (120) degrees Fahrenheit):

(1) a freeboard that attains a freeboard ratio of seventy-five hundreths (0.75) or greater;

(2) a water cover when solvent used is insoluble in, and heavier than, water;

(3) a refrigerated chiller;

(4) carbon adsorption; or

(5) an alternative system of demonstrated equivalent or better control as those outlined in 326 IAC 8-3-2(b)(A) through (D) that is approved by the department. An alternative system shall be submitted to the U.S. EPA as a SIP revision.

(b) Ensure the degreaser cover is designed so that it can be easily operated with one (1) hand if the solvent is agitated or heated.

(c) If used, solvent spray:

(1) must be a solid, fluid stream; and
(2) shall be applied at a pressure that does not cause excessive splashing.

D.5.2 Material Requirements for Cold Cleaner Degreasers [326 IAC 8-3-8]

Pursuant to 326 IAC 8-3-8 (Material Requirements for Cold Cleaner Degreasers), on and after January 1, 2015, the Permittee shall not operate a cold cleaning degreaser with a solvent that has a VOC composite partial vapor pressure that exceeds one (1) millimeter of mercury (nineteen-thousandths (0.019) pound per square inch) measured at twenty (20) degrees Celsius (sixty-eight (68) degrees Fahrenheit).

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

D.5.3 Record Keeping Requirements

(a) To document the compliance status with Condition D.5.2, on and after January 1, 2015, the Permittee shall maintain the following records for each purchase of solvent used in the cold cleaner degreasing operations. These records shall be retained on-site or accessible electronically for the most recent three (3) year period and shall be reasonably accessible for an additional two (2) year period.

(1) The name and address of the solvent supplier.

(2) The date of purchase (or invoice/bill date of contract servicer indicating service date).

(3) The type of solvent purchased.

(4) The total volume of the solvent purchased.

(5) The true vapor pressure of the solvent measured in millimeters of mercury at twenty (20) degrees Celsius (sixty-eight (68) degrees Fahrenheit).

(b) Section C - General Record Keeping Requirements contains the Permittee's obligation with regard to the records required to be maintained by this condition.

SECTION D.6 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

(i) One (1) new blasting operation consisting of the following:

(1) One (1) blasting room, identified as BR, approved for construction in 2014, using glass, plastic bead, or aluminum oxide media, with a maximum abrasive usage of five hundred (500) pounds per hour and five hundred (500) pounds of metal per hour, for a combined process weight rate of 0.5 tons per hour, exhausting to a baghouse as control which exhausts indoors. The baghouse has a 1,200 cubic feet per minute capacity.

(2) Three (3) small cabinet blasters, identified as SCB1, SCB2, and SCB3, approved for construction in 2014, using glass, plastic bead, or aluminum oxide media, with a maximum abrasive usage of ten (10) pounds per hour, each, and ninety (90) pounds of metal per hour, each, for a combined process weight rate of 100 pounds per hour, each, exhausting to a dust collector, each, as control which exhaust indoors. The dust collectors have a 800 cubic feet per minute capacity.

(3) One (1) large cabinet blaster, identified as LCB1, approved for construction in 2014, using glass, plastic bead, or aluminum oxide media, with a maximum abrasive usage of twenty-five (25) pounds per hour and seventy-five (75) pounds of metal per hour, for a combined process weight rate of 100 pounds per hour, exhausting to a dust collector as control which exhausts indoors. The dust collector has a 850 cubic feet per minute capacity.

(4) One (1) tumble blaster, identified as TB1, approved for construction in 2014, using aluminum oxide media, with a maximum abrasive usage of ten (10) pounds per hour and ninety (90) pounds of metal per hour, for a combined process weight rate of 100 pounds per hour, exhausting to a dust collector as control which exhausts indoors. The dust collector has a 800 cubic feet per minute capacity.

(5) One (1) wet blaster, identified as WB1, approved for construction in 2014, using vermiculite media, operating wet when in use, with a maximum abrasive usage of ten (10) pounds per hour and ninety (90) pounds of metal, for a combined process weight rate of 100 pounds per hour, exhausting to a baghouse a control which exhaust indoors.

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

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

D.6.1 Particulate Matter Limitations Except Lake County [326 IAC 6.5]

Pursuant to 326 IAC 6.5-1-2(a), the particulate matter (PM) emissions from the abrasive blasting operations, identified as BR, SCB1, SCB2, SCB3, LCB1, TB1, and WB1, shall not exceed 0.03 grains per dry standard cubic foot (dscf), each.

D.6.2 Preventive Maintenance Plan [326 IAC 2-7-5(12)]

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

Compliance Determination Requirements

D.6.3 Particulate Control

(a) In order to comply with Condition D.6.1, the control devices associated with the abrasive blasting operations BR, SCB1, SCB2, SCB3, LCB1, and TB1 shall be in operation at all times that BR, SCB1, SCB2, SCB3, LCB1, and TB1 are in operation, respectively.

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

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

D.6.4 Broken or Failed Bag Detection

(a) For a single compartment baghouses controlling emissions from a process operated continuously, a failed unit and the associated process shall be shut down immediately until the failed unit has been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section C- Response to Excursions or Exceedances).

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

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

D.6.5 Baghouse and Dust Collector Inspections

(a) An inspection shall be performed semi-annually on the baghouse associated with the abrasive blasting room BR at all times that BR is in operation.

(b) An inspection shall be performed semi-annually on the dust collectors associated with SCB1, SCB2, SCB3, LCB1, and TB1 at all times these units are in operation.

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

D.6.6 Record Keeping Requirements

(a) To document the compliance status with Condition D.6.5, the Permittee shall maintain records of the results of the inspections required under Condition D.6.5.

(b) Section C - General Record Keeping Requirements contains the Permittee's obligation with regard to the records required by this condition.

SECTION E.1 National Emission Standards for Hazardous Air Pollutants for Paint Stripping and Miscellaneous Surface Operations at areas source [40 CFR Part 63, Subpart HHHHHH]

Emission Unit Description:

(a) One (1) CARC coating line, constructed in 2011, with particulate emissions controlled by dry filters, consisting of the following units:

(4) Four (4) spray booths, identified as (EU-01 through EU-04), with a maximum capacity of 50 units per hour each, exhausting to stacks EU-01 through EU-04, respectively;

(5) One (1) touch-up spray booth, identified as EU-05, with a maximum capacity of 10 units per hour, exhausting to stack EU-05 and

(6) One (1) burn-off oven, identified as BO-1, approved for construction in 2011, with a maximum heat input capacity of 0.80 MMBtu/hr, with emissions exhausting through stack B0-1.

(b) Two (2) natural gas-fired cure ovens, identified as CO-1 and CO-2, constructed in 2011, with maximum heat input capacities of 3.0 MMBtu/hr, each, with emissions exhausting through stacks CO-1 and CO-2, respectively.

(j) One (1) spray booth, identified as EU-6, approved for construction in 2014, utilizing a high volume, low pressure (HVLP) applicator, with a maximum capacity of 80 metal units per hour, using dry filters to control particulate overspray, and exhausting to stack EU6S.

The spray booth EU-6 is considered a new affected source under 40 CFR 63, Subpart HHHHHH.

(k) One (1) spray booth, identified as EU-7, approved for construction in 2014, utilizing a high volume, low pressure (HVLP) applicator, with a maximum capacity of 80 metal units per hour, using dry filters to control particulate overspray, and exhausting to stack EU7S.

The spray booth EU-7 is considered a new affected source under 40 CFR 63, Subpart HHHHHH.

(l) One (1) spray booth, identified as EU-8, approved for construction in 2014, utilizing a high volume, low pressure (HVLP) applicator, with a maximum capacity of 80 metal units per hour, using dry filters to control particulate overspray, and exhausting to stack EU8S.

The spray booth EU-8 is considered a new affected source under 40 CFR 63, Subpart HHHHHH.

(m) One (1) spray booth, identified as EU-9, approved for construction in 2014, utilizing a high volume, low pressure (HVLP) applicator, with a maximum capacity of 80 metal units per hour, using dry filters to control particulate overspray, and exhausting to stack EU9S.

The spray booth EU-9 is considered a new affected source under 40 CFR 63, Subpart HHHHHH.

(n) One (1) spray booth, identified as EU-10, approved for construction in 2014, utilizing a high volume, low pressure (HVLP) applicator, with a maximum capacity of 80 metal units per hour, using dry filters to control particulate overspray, and exhausting to stack EU10S.

The spray booth EU-10 is considered a new affected source under 40 CFR 63, Subpart HHHHHH.

(o) One (1) spray booth, identified as EU-11, approved for construction in 2014, utilizing a high volume, low pressure (HVLP) applicator, with a maximum capacity of 80 metal units per hour,

using dry filters to control particulate overspray, and exhausting to stack EU11S.

The spray booth EU-11 is considered a new affected source under 40 CFR 63, Subpart HHHHHH.

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

National Emission Standards for Hazardous Air Pollutants [326 IAC 20] [40 CFR Part 63]

E.1.1 General Provisions Relating to National Emission Standards for Hazardous Air Pollutants under 40 CFR Part 63 [326 IAC 20-1] [40 CFR Part 63, Subpart A]

(a) Pursuant to 40 CFR 63.11174, the Permittee shall comply with the provisions of 40 CFR Part 63, Subpart A – General Provisions, which are incorporated by reference as 326 IAC 20-1-1 for the surface coating operations, spray booths EU-01 through EU-04, touch-up spray booth EU-05, and spray booths EU-6 through EU-11, as specified in Table 1 of 40 CFR 63, Subpart HHHHHH in accordance with schedule in 40 CFR 63 Subpart HHHHHH.

E.1.2 National Emission Standards for Hazardous Air Pollutants for Paint Stripping and Miscellaneous Surface Operations at areas source [40 CFR Part 63, Subpart HHHHHH]

The Permittee shall comply with the following provisions of 40 CFR 63, Subpart HHHHHH (National Emission Standards for Hazardous Air Pollutants for Paint Stripping and Miscellaneous Surface Operations at areas source), included as Attachment A, for the surface coating operation, spray booths EU-01 through EU-04, touch-up spray booth EU-05, and spray booths EU-6 through EU-11:

(1) 40 CFR 63.11169(c)
(2) 40 CFR 63.11170(a)(3), (b)
(3) 40 CFR 63.11171(a), (b), (c)
(4) 40 CFR 63.11172(a)(2)
(5) 40 CFR 63.11173(f),(g(1), (g)(3)
(6) 40 CFR 63.11174(a)
(7) 40 CFR 63.11175(a)
(8) 40 CFR 63.11176(a)
(9) 40 CFR 63.11177
(10) 40 CFR 63.11178
(11) 40 CFR 63.11179
(12) 40 CFR 63.11180
(13) Table 1

SECTION E.2 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

Insignificant Activity:

(e) One (1) manganese dipping line, consisting of twenty-two (22) tanks, approved for construction in 2014, with varying chemicals used in each tank, exhausting indoors.

The manganese dipping line is considered a new affected source under 40 CFR 63, Subpart WWWWWW.

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

National Emission Standards for Hazardous Air Pollutants [326 IAC 20] [40 CFR Part 63]

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

The provisions of 40 CFR Part 63, Subpart A – General Provisions, which are incorporated by reference as 326 IAC 20-1-1, apply to the facilities described in this section except when otherwise specified in 40 CFR Part 63, Subpart WWWWWW.

E.2.2 National Emission Standards for Hazardous Air Pollutants for Area Source Standards for Plating and Polishing Operations [40 CFR 63, Subpart WWWWWW]

The Permittee which engages in plating which has emissions of compounds of one or more plating and polishing metal HAP shall comply with the following provisions of 40 CFR Part 63, Subpart WWWWWW.

(1) 40 CFR 63.11504
(2) 40 CFR 63.11505(a)(1) and (c)
(3) 40 CFR 63.11506(c)
(4) 40 CFR 63.11507(g)
(5) 40 CFR 63.11508
(6) 40 CFR 63.11509
(7) 40 CFR 63.11510
(8) 40 CFR 63.11511
(9) 40 CFR 63.11512
Table 1 to Subpart WWWWWW

The entire text of 40 CFR 63, Subpart WWWWWW is included as Attachment B of this permit.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE AND ENFORCEMENT BRANCH
PART 70 OPERATING PERMIT
CERTIFICATION

Source Name: Imagineering Enterprises, Inc.
Source Address: 3722 Foundation Court, South Bend, Indiana 46628
Part 70 Permit No.: 141-29765-00574

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

Please check what document is being certified:

□ Annual Compliance Certification Letter

□ Test Result (specify)

□ Report (specify)

□ Notification (specify)

□ Affidavit (specify)

□ Other (specify)

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

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

PART 70 OPERATING PERMIT
EMERGENCY OCCURRENCE REPORT

Source Name: Imagineering Enterprises, Inc.
Source Address: 3722 Foundation Court, South Bend, Indiana 46628
Part 70 Permit No.: 141-29765-00574

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

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

- The Permittee must notify the Office of Air Quality (OAQ), no later than four (**4**) daytime 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 no later than two (**2**) working days (Facsimile Number: 317-233-6865), and follow the other requirements of 326 IAC 2-7-16.

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

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

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

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

Form Completed by:_____

Title / Position: _____

Date:_____

Phone: _____

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE AND ENFORCEMENT BRANCH
PART 70 OPERATING PERMIT
QUARTERLY DEVIATION AND COMPLIANCE MONITORING REPORT

Source Name: Imagineering Enterprises, Inc.
Source Address: 3722 Foundation Court, South Bend, Indiana 46628
Part 70 Permit No.: 141-29765-00574

Months: _____ to _____ Year: _____

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

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

Form Completed by:_____

Title / Position: _____

Date:_____

Phone: _____

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

Part 70 Quarterly Report

Source Name: Imagineering Enterprises, Inc
Source Address: 3722 Foundation Court, South Bend, Indiana 46628
Part 70 Permit No.: 141-29765-00574
Facility: CARC Coating Line and Spray Booths EU-6 through EU-11
Parameter: Chrome Emissions (Single HAP)
Limit: Shall not exceed 9.9 tons per 12 consecutive month period with compliance determined at the end of each month

YEAR: _____

Month	This Month (tons)	Previous 11 Months (tons)	12-Month Period (tons)

☐ **No deviation occurred in this quarter.**

☐ **Deviations occurred in this quarter.**
Deviation has been reported on: _____

Submitted By: _____

Title/Position: _____

Signature: _____

Date: _____

Phone: _____

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

Part 70 Quarterly Report

Source Name: Imagineering Enterprises, Inc
Source Address: 3722 Foundation Court, South Bend, Indiana 46628
Part 70 Permit No.: 141-29765-00574
Facility: CARC Coating Line and Spray Booths EU-6 through EU-11
Parameter: Toluene Emissions (Single HAP)
Limit: Shall not exceed 9.9 tons per 12 consecutive month period with compliance determined at the end of each month

YEAR: _____

Month	This Month (tons)	Previous 11 Months (tons)	12-Month Period (tons)

☐ **No deviation occurred in this quarter.**

☐ **Deviations occurred in this quarter.**
Deviation has been reported on: _____

Submitted By: _____

Title/Position: _____

Signature: _____

Date: _____

Phone: _____

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

Part 70 Quarterly Report

Source Name: Imagineering Enterprises, Inc
Source Address: 3722 Foundation Court, South Bend, Indiana 46628
Part 70 Permit No.: 141-29765-00574
Facility: CARC Coating Line and Spray Booths EU-6 through EU-11
Parameter: Xylene Emissions (Single HAP)
Limit: Shall not exceed 9.9 tons per 12 consecutive month period with compliance determined at the end of each month

YEAR: _____

Month	This Month (tons)	Previous 11 Months (tons)	12-Month Period (tons)

☐ **No deviation occurred in this quarter.**

☐ **Deviations occurred in this quarter.**
Deviation has been reported on: _____

Submitted By: _____

Title/Position: _____

Signature: _____

Date: _____

Phone: _____

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

Part 70 Quarterly Report

Source Name: Imagineering Enterprises, Inc
Source Address: 3722 Foundation Court, South Bend, Indiana 46628
Part 70 Permit No.: 141-29765-00574
Facility: CARC Coating Line and Spray Booths EU-6 through EU-11
Parameter: Ethyl Benzene Emissions (Single HAP)
Limit: Shall not exceed 9.9 tons per 12 consecutive month period with compliance determined at the end of each month

YEAR: _____

Month	This Month (tons)	Previous 11 Months (tons)	12-Month Period (tons)

☐ **No deviation occurred in this quarter.**

☐ **Deviations occurred in this quarter.**
Deviation has been reported on: _____

Submitted By: _____

Title/Position: _____

Signature: _____

Date: _____

Phone: _____

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

Part 70 Quarterly Report

Source Name: Imagineering Enterprises, Inc
Source Address: 3722 Foundation Court, South Bend, Indiana 46628
Part 70 Permit No.: 141-29765-00574
Facility: CARC Coating Line and Spray Booths EU-6 through EU-11
Parameter: Total HAPs emissions
Limit: Shall not exceed 13.5 tons per 12 consecutive month period with compliance determined at the end of each month

YEAR: _____

Month	This Month (tons)	Previous 11 Months (tons)	12-Month Period (tons)

☐ **No deviation occurred in this quarter.**

☐ **Deviations occurred in this quarter.**
Deviation has been reported on: _____

Submitted By: _____

Title/Position: _____

Signature: _____

Date: _____

Phone: _____

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

Part 70 Quarterly Report

Source Name: Imagineering Enterprises, Inc
Source Address: 3722 Foundation Court, South Bend, Indiana 46628
Part 70 Permit No.: 141-29765-00574
Facility: Spray Booth EU-6
Parameter: Daily Total VOC Emissions
Limit: The total VOC input shall be less than fifteen (15.0) pounds per day, with compliance determined at the end of each day.

Month: _____ **Year:** _____

Day		Day	
1		17	
2		18	
3		19	
4		20	
5		21	
6		22	
7		23	
8		24	
9		25	
10		26	
11		27	
12		28	
13		29	
14		30	
15		31	
16			

☐ No deviation occurred in this quarter.

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

Submitted by: _____
Title / Position: _____
Signature: _____
Date: _____
Phone: _____

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

Part 70 Quarterly Report

Source Name: Imagineering Enterprises, Inc
Source Address: 3722 Foundation Court, South Bend, Indiana 46628
Part 70 Permit No.: 141-29765-00574
Facility: Spray Booth EU-7
Parameter: Daily Total VOC Emissions
Limit: The total VOC input shall be less than fifteen (15.0) pounds per day, with compliance determined at the end of each day.

Month: _____ **Year:** _____

Day		Day	
1		17	
2		18	
3		19	
4		20	
5		21	
6		22	
7		23	
8		24	
9		25	
10		26	
11		27	
12		28	
13		29	
14		30	
15		31	
16			

☐ No deviation occurred in this quarter.

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

Submitted by: _____
Title / Position: _____
Signature: _____
Date: _____
Phone: _____

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

Part 70 Quarterly Report

Source Name: Imagineering Enterprises, Inc
Source Address: 3722 Foundation Court, South Bend, Indiana 46628
Part 70 Permit No.: 141-29765-00574
Facility: Spray Booth EU-8
Parameter: Daily Total VOC Emissions
Limit: The total VOC input shall be less than fifteen (15.0) pounds per day, with compliance determined at the end of each day.

Month: _____ **Year:** _____

Day		Day	
1		17	
2		18	
3		19	
4		20	
5		21	
6		22	
7		23	
8		24	
9		25	
10		26	
11		27	
12		28	
13		29	
14		30	
15		31	
16			

☐ No deviation occurred in this quarter.

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

Submitted by: _____
Title / Position: _____
Signature: _____
Date: _____
Phone: _____

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

Part 70 Quarterly Report

Source Name: Imagineering Enterprises, Inc
Source Address: 3722 Foundation Court, South Bend, Indiana 46628
Part 70 Permit No.: 141-29765-00574
Facility: Spray Booth EU-9
Parameter: Daily Total VOC Emissions
Limit: The total VOC input shall be less than fifteen (15.0) pounds per day, with compliance determined at the end of each day.

Month: _____ **Year:** _____

Day		Day	
1		17	
2		18	
3		19	
4		20	
5		21	
6		22	
7		23	
8		24	
9		25	
10		26	
11		27	
12		28	
13		29	
14		30	
15		31	
16			

☐ No deviation occurred in this quarter.

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

Submitted by: _____
Title / Position: _____
Signature: _____
Date: _____
Phone: _____

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

Part 70 Quarterly Report

Source Name: Imagineering Enterprises, Inc
Source Address: 3722 Foundation Court, South Bend, Indiana 46628
Part 70 Permit No.: 141-29765-00574
Facility: Spray Booth EU-10
Parameter: Daily Total VOC Emissions
Limit: The total VOC input shall be less than fifteen (15.0) pounds per day, with compliance determined at the end of each day.

Month: _____ **Year:** _____

Day		Day	
1		17	
2		18	
3		19	
4		20	
5		21	
6		22	
7		23	
8		24	
9		25	
10		26	
11		27	
12		28	
13		29	
14		30	
15		31	
16			

☐ No deviation occurred in this quarter.

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

Submitted by: _____
Title / Position: _____
Signature: _____
Date: _____
Phone: _____

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

Part 70 Quarterly Report

Source Name: Imagineering Enterprises, Inc
Source Address: 3722 Foundation Court, South Bend, Indiana 46628
Part 70 Permit No.: 141-29765-00574
Facility: Spray Booth EU-11
Parameter: Daily Total VOC Emissions
Limit: The total VOC input shall be less than fifteen (15.0) pounds per day, with compliance determined at the end of each day.

Month: _____ **Year:** _____

Day		Day	
1		17	
2		18	
3		19	
4		20	
5		21	
6		22	
7		23	
8		24	
9		25	
10		26	
11		27	
12		28	
13		29	
14		30	
15		31	
16			

☐ No deviation occurred in this quarter.

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

Submitted by: _____
Title / Position: _____
Signature: _____
Date: _____
Phone: _____

Indiana Department of Environmental Management
Office of Air Quality

Attachment A

Title 40: Protection of Environment

40 CFR 63, Subpart HHHHHH—National Emission Standards for Hazardous Air Pollutants: Paint Stripping and Miscellaneous Surface Coating Operations at Area Sources

Source: 73 FR 1759, Jan. 9, 2008, unless otherwise noted.

What This Subpart Covers

§ 63.11169 What is the purpose of this subpart?

Except as provided in paragraph (d) of this section, this subpart establishes national emission standards for hazardous air pollutants (HAP) for area sources involved in any of the activities in paragraphs (a) through (c) of this section. This subpart also establishes requirements to demonstrate initial and continuous compliance with the emission standards contained herein.

(a) Paint stripping operations that involve the use of chemical strippers that contain methylene chloride (MeCl), Chemical Abstract Service number 75092, in paint removal processes;

(b) Autobody refinishing operations that encompass motor vehicle and mobile equipment spray-applied surface coating operations;

(c) Spray application of coatings containing compounds of chromium (Cr), lead (Pb), manganese (Mn), nickel (Ni), or cadmium (Cd), collectively referred to as the target HAP to any part or product made of metal or plastic, or combinations of metal and plastic that are not motor vehicles or mobile equipment.

(d) This subpart does not apply to any of the activities described in paragraph (d)(1) through (6) of this section.

(1) Surface coating or paint stripping performed on site at installations owned or operated by the Armed Forces of the United States (including the Coast Guard and the National Guard of any such State), the National Aeronautics and Space Administration, or the National Nuclear Security Administration.

(2) Surface coating or paint stripping of military munitions, as defined in § 63.11180, manufactured by or for the Armed Forces of the United States (including the Coast Guard and the National Guard of any such State) or equipment directly and exclusively used for the purposes of transporting military munitions.

(3) Surface coating or paint stripping performed by individuals on their personal vehicles, possessions, or property, either as a hobby or for maintenance of their personal vehicles, possessions, or property. This subpart also does not apply when these operations are performed by individuals for others without compensation. An individual who spray applies surface coating to more than two motor vehicles or pieces of mobile equipment per year is subject to the requirements in this subpart that pertain to motor vehicle and mobile equipment surface coating regardless of whether compensation is received.

(4) Surface coating or paint stripping that meets the definition of “research and laboratory activities” in § 63.11180.

(5) Surface coating or paint stripping that meets the definition of “quality control activities” in § 63.11180.

(6) Surface coating or paint stripping activities that are covered under another area source NESHAP.

§ 63.11170 Am I subject to this subpart?

(a) You are subject to this subpart if you operate an area source of HAP as defined in paragraph (b) of this section, including sources that are part of a tribal, local, State, or Federal facility and you perform one or more of the activities in paragraphs (a)(1) through (3) of this section:

(1) Perform paint stripping using MeCl for the removal of dried paint (including, but not limited to, paint, enamel, varnish, shellac, and lacquer) from wood, metal, plastic, and other substrates.

(2) Perform spray application of coatings, as defined in § 63.11180, to motor vehicles and mobile equipment including operations that are located in stationary structures at fixed locations, and mobile repair and refinishing operations that travel to the customer's location, except spray coating applications that meet the definition of facility maintenance in § 63.11180. However, if you are the owner or operator of a motor vehicle or mobile equipment surface coating operation, you may petition the Administrator for an exemption from this subpart if you can demonstrate, to the satisfaction of the Administrator, that you spray apply no coatings that contain the target HAP, as defined in § 63.11180. Petitions must include a description of the coatings that you spray apply and your certification that you do not spray apply any coatings containing the target HAP. If circumstances change such that you intend to spray apply coatings containing the target HAP, you must submit the initial notification required by 63.11175 and comply with the requirements of this subpart.

(3) Perform spray application of coatings that contain the target HAP, as defined in § 63.11180, to a plastic and/or metal substrate on a part or product, except spray coating applications that meet the definition of facility maintenance or space vehicle in § 63.11180.

(b) An area source of HAP is a source of HAP that is not a major source of HAP, is not located at a major source, and is not part of a major source of HAP emissions. A major source of HAP emissions is any stationary source or group of stationary sources located within a contiguous area and under common control that emits or has the potential to emit any single HAP at a rate of 9.07 megagrams (Mg) (10 tons) or more per year, or emit any combination of HAP at a rate of 22.68 Mg (25 tons) or more per year.

§ 63.11171 How do I know if my source is considered a new source or an existing source?

(a) This subpart applies to each new and existing affected area source engaged in the activities listed in § 63.11170, with the exception of those activities listed in § 63.11169(d) of this subpart.

(b) The affected source is the collection of all of the items listed in paragraphs (b)(1) through (6) of this section. Not all affected sources will have all of the items listed in paragraphs (b)(1) through (6) of this section.

(1) Mixing rooms and equipment;

(2) Spray booths, ventilated prep stations, curing ovens, and associated equipment;

(3) Spray guns and associated equipment;

(4) Spray gun cleaning equipment;

(5) Equipment used for storage, handling, recovery, or recycling of cleaning solvent or waste paint; and

(6) Equipment used for paint stripping at paint stripping facilities using paint strippers containing MeCl.

(c) An affected source is a new source if it meets the criteria in paragraphs (c)(1) and (c)(2) of this section.

(1) You commenced the construction of the source after September 17, 2007 by installing new paint stripping or surface coating equipment. If you purchase and install spray booths, enclosed spray gun cleaners, paint stripping equipment to reduce MeCl emissions, or purchase new spray guns to comply with this subpart at an existing source, these actions would not make your existing source a new source.

(2) The new paint stripping or surface coating equipment is used at a source that was not actively engaged in paint stripping and/or miscellaneous surface coating prior to September 17, 2007.

(d) An affected source is reconstructed if it meets the definition of reconstruction in § 63.2.

(e) An affected source is an existing source if it is not a new source or a reconstructed source.

General Compliance Requirements

§ 63.11172 When do I have to comply with this subpart?

The date by which you must comply with this subpart is called the compliance date. The compliance date for each type of affected source is specified in paragraphs (a) and (b) of this section.

(a) For a new or reconstructed affected source, the compliance date is the applicable date in paragraph (a)(1) or (2) of this section:

(1) If the initial startup of your new or reconstructed affected source is after September 17, 2007, the compliance date is January 9, 2008.

(2) If the initial startup of your new or reconstructed affected source occurs after January 9, 2008, the compliance date is the date of initial startup of your affected source.

(b) For an existing affected source, the compliance date is January 10, 2011.

§ 63.11173 What are my general requirements for complying with this subpart?

(a) Each paint stripping operation that is an affected area source must implement management practices to minimize the evaporative emissions of MeCl. The management practices must address, at a minimum, the practices in paragraphs (a)(1) through (5) of this section, as applicable, for your operations.

(1) Evaluate each application to ensure there is a need for paint stripping (e.g., evaluate whether it is possible to re-coat the piece without removing the existing coating).

(2) Evaluate each application where a paint stripper containing MeCl is used to ensure that there is no alternative paint stripping technology that can be used.

(3) Reduce exposure of all paint strippers containing MeCl to the air.

(4) Optimize application conditions when using paint strippers containing MeCl to reduce MeCl evaporation (e.g., if the stripper must be heated, make sure that the temperature is kept as low as possible to reduce evaporation).

(5) Practice proper storage and disposal of paint strippers containing MeCl (e.g., store stripper in closed, air-tight containers).

(b) Each paint stripping operation that has annual usage of more than one ton of MeCl must develop and implement a written MeCl minimization plan to minimize the use and emissions of MeCl. The MeCl minimization plan must address, at a minimum, the management practices specified in paragraphs (a)(1) through (5) of this section, as applicable, for your operations. Each operation must post a placard or sign outlining the MeCl minimization plan in each area where paint stripping operations subject to this subpart occur. Paint stripping operations with annual usage of less than one ton of MeCl, must comply with the requirements in paragraphs (a)(1) through (5) of this section, as applicable, but are not required to develop and implement a written MeCl minimization plan.

(c) Each paint stripping operation must maintain copies of annual usage of paint strippers containing MeCl on site at all times.

(d) Each paint stripping operation with annual usage of more than one ton of MeCl must maintain a copy of their current MeCl minimization plan on site at all times.

(e) Each motor vehicle and mobile equipment surface coating operation and each miscellaneous surface coating operation must meet the requirements in paragraphs (e)(1) through (e)(5) of this section.

(1) All painters must be certified that they have completed training in the proper spray application of surface coatings and the proper setup and maintenance of spray equipment. The minimum requirements for training and certification are described in paragraph (f) of this section. The spray application of surface coatings is prohibited by persons who are not certified as having completed the training described in paragraph (f) of this section. The requirements of this paragraph do not apply to the students of an accredited surface coating training program who are under the direct supervision of an instructor who meets the requirements of this paragraph.

(2) All spray-applied coatings must be applied in a spray booth, preparation station, or mobile enclosure that meets the requirements of paragraph (e)(2)(i) of this section and either paragraph (e)(2)(ii), (e)(2)(iii), or (e)(2)(iv) of this section.

(i) All spray booths, preparation stations, and mobile enclosures must be fitted with a type of filter technology that is demonstrated to achieve at least 98-percent capture of paint overspray. The procedure used to demonstrate filter efficiency must be consistent with the American Society of Heating, Refrigerating, and Air-Conditioning Engineers (ASHRAE) Method 52.1, “Gravimetric and Dust-Spot Procedures for Testing Air-Cleaning Devices Used in General Ventilation for Removing Particulate Matter, June 4, 1992” (incorporated by reference, see § 63.14 of subpart A of this part). The test coating for measuring filter efficiency shall be a high solids bake enamel delivered at a rate of at least 135 grams per minute from a conventional (non-HVLP) air-atomized spray gun operating at 40 pounds per square inch (psi) air pressure; the air flow rate across the filter shall be 150 feet per minute. Owners and operators may use published filter efficiency data provided by filter vendors to demonstrate compliance with this requirement and are not required to perform this measurement. The requirements of this paragraph do not apply to waterwash spray booths that are operated and maintained according to the manufacturer's specifications.

(ii) Spray booths and preparation stations used to refinish complete motor vehicles or mobile equipment must be fully enclosed with a full roof, and four complete walls or complete side curtains, and must be ventilated at negative pressure so that air is drawn into any openings in the booth walls or preparation station curtains. However, if a spray booth is fully enclosed and has seals on all doors and other openings and has an automatic pressure balancing system, it may be operated at up to, but not more than, 0.05 inches water gauge positive pressure.

(iii) Spray booths and preparation stations that are used to coat miscellaneous parts and products or vehicle subassemblies must have a full roof, at least three complete walls or complete side curtains, and must be ventilated so that air is drawn into the booth. The walls and roof of a booth may have openings, if needed, to allow for conveyors and parts to pass through the booth during the coating process.

(iv) Mobile ventilated enclosures that are used to perform spot repairs must enclose and, if necessary, seal against the surface around the area being coated such that paint overspray is retained within the enclosure and directed to a filter to capture paint overspray.

(3) All spray-applied coatings must be applied with a high volume, low pressure (HVLP) spray gun, electrostatic application, airless spray gun, air-assisted airless spray gun, or an equivalent technology that is demonstrated by the spray gun manufacturer to achieve transfer efficiency comparable to one of the spray gun technologies listed above for a comparable operation, and for which written approval has been obtained from the Administrator. The procedure used to demonstrate that spray gun transfer efficiency is equivalent to that of an HVLP spray gun must be equivalent to the California South Coast Air Quality Management District's “Spray Equipment Transfer Efficiency Test Procedure for Equipment User, May 24, 1989” and “Guidelines for Demonstrating Equivalency with District Approved Transfer Efficient Spray Guns, September 26, 2002” (incorporated by reference, see § 63.14 of subpart A of this part). The requirements of this paragraph do not apply to painting performed by students and instructors at paint training centers. The requirements of this paragraph do not apply to the surface coating of aerospace vehicles that involves the coating of components that normally require the use of an airbrush or an extension on the spray gun to properly reach limited access spaces; to the application of coatings on aerospace vehicles that contain fillers that adversely affect atomization with HVLP spray guns; or to the application of coatings on aerospace vehicles that normally have a dried film thickness of less than 0.0013 centimeter (0.0005 in.).

(4) All paint spray gun cleaning must be done so that an atomized mist or spray of gun cleaning solvent and paint residue is not created outside of a container that collects used gun cleaning solvent. Spray gun cleaning may be done with, for example, hand cleaning of parts of the disassembled gun in a container of solvent, by flushing solvent through the gun without atomizing the solvent and paint residue, or by using a fully enclosed spray gun washer. A combination of non-atomizing methods may also be used.

(5) As provided in § 63.6(g), we, the U.S. Environmental Protection Agency, may choose to grant you permission to use an alternative to the emission standards in this section after you have requested approval to do so according to § 63.6(g)(2).

(f) Each owner or operator of an affected miscellaneous surface coating source must ensure and certify that all new and existing personnel, including contract personnel, who spray apply surface coatings, as defined in § 63.11180, are trained in the proper application of surface coatings as required by paragraph (e)(1) of this section. The training program must include, at a minimum, the items listed in paragraphs (f)(1) through (f)(3) of this section.

(1) A list of all current personnel by name and job description who are required to be trained;

(2) Hands-on and classroom instruction that addresses, at a minimum, initial and refresher training in the topics listed in paragraphs (f)(2)(i) through (2)(iv) of this section.

(i) Spray gun equipment selection, set up, and operation, including measuring coating viscosity, selecting the proper fluid tip or nozzle, and achieving the proper spray pattern, air pressure and volume, and fluid delivery rate.

(ii) Spray technique for different types of coatings to improve transfer efficiency and minimize coating usage and overspray, including maintaining the correct spray gun distance and angle to the part, using proper banding and overlap, and reducing lead and lag spraying at the beginning and end of each stroke.

(iii) Routine spray booth and filter maintenance, including filter selection and installation.

(iv) Environmental compliance with the requirements of this subpart.

(3) A description of the methods to be used at the completion of initial or refresher training to demonstrate, document, and provide certification of successful completion of the required training. Owners and operators who can show by documentation or certification that a painter's work experience and/or training has resulted in training equivalent to the training required in paragraph (f)(2) of this section are not required to provide the initial training required by that paragraph to these painters.

(g) As required by paragraph (e)(1) of this section, all new and existing personnel at an affected motor vehicle and mobile equipment or miscellaneous surface coating source, including contract personnel, who spray apply surface coatings, as defined in § 63.11180, must be trained by the dates specified in paragraphs (g)(1) and (2) of this section. Employees who transfer within a company to a position as a painter are subject to the same requirements as a new hire.

(1) If your source is a new source, all personnel must be trained and certified no later than 180 days after hiring or no later than July 7, 2008, whichever is later. Painter training that was completed within five years prior to the date training is required, and that meets the requirements specified in paragraph (f)(2) of this section satisfies this requirement and is valid for a period not to exceed five years after the date the training is completed.

(2) If your source is an existing source, all personnel must be trained and certified no later than 180 days after hiring or no later than January 10, 2011, whichever is later. Painter training that was completed within five years prior to the date training is required, and that meets the requirements specified in paragraph (f)(2) of this section satisfies this requirement and is valid for a period not to exceed five years after the date the training is completed.

(3) Training and certification will be valid for a period not to exceed five years after the date the training is completed, and all personnel must receive refresher training that meets the requirements of this section and be re-certified every five years.

[73 FR 1760, Jan. 9, 2008; 73 FR 8408, Feb. 13, 2008]

§ 63.11174 What parts of the General Provisions apply to me?

(a) Table 1 of this subpart shows which parts of the General Provisions in subpart A apply to you.

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

Notifications, Reports, and Records

§ 63.11175 What notifications must I submit?

(a) Initial Notification. If you are the owner or operator of a paint stripping operation using paint strippers containing MeCl and/or a surface coating operation subject to this subpart, you must submit the initial notification required by § 63.9(b). For a new affected source, you must submit the Initial Notification no later than 180 days after initial startup or July 7, 2008, whichever is later. For an existing affected source, you must submit the initial notification no later than January 11, 2010. The initial notification must provide the information specified in paragraphs (a)(1) through (8) of this section.

(1) The company name, if applicable.

(2) The name, title, street address, telephone number, e-mail address (if available), and signature of the owner and operator, or other certifying company official;

(3) The street address (physical location) of the affected source and the street address where compliance records are maintained, if different. If the source is a motor vehicle or mobile equipment surface coating operation that repairs vehicles at the customer's location, rather than at a fixed location, such as a collision repair shop, the notification should state this and indicate the physical location where records are kept to demonstrate compliance;

(4) An identification of the relevant standard (i.e., this subpart, 40 CFR part 63, subpart HHHHHH);

(5) A brief description of the type of operation as specified in paragraph (a)(5)(i) or (ii) of this section.

(i) For all surface coating operations, indicate whether the source is a motor vehicle and mobile equipment surface coating operation or a miscellaneous surface coating operation, and include the number of spray booths and preparation stations, and the number of painters usually employed at the operation.

(ii) For paint stripping operations, identify the method(s) of paint stripping employed (e.g., chemical, mechanical) and the substrates stripped (e.g., wood, plastic, metal).

(6) Each paint stripping operation must indicate whether they plan to annually use more than one ton of MeCl after the compliance date.

(7) A statement of whether the source is already in compliance with each of the relevant requirements of this subpart, or whether the source will be brought into compliance by the compliance date. For paint stripping operations, the relevant requirements that you must evaluate in making this determination are specified in § 63.11173(a) through (d) of this subpart. For surface coating operations, the relevant requirements are specified in § 63.11173(e) through (g) of this subpart.

(8) If your source is a new source, you must certify in the initial notification whether the source is in compliance with each of the requirements of this subpart. If your source is an existing source, you may certify in the initial notification that the source is already in compliance. If you are certifying in the initial notification that the source is in compliance with the relevant requirements of this subpart, then include also a statement by a responsible official with that official's

name, title, phone number, e-mail address (if available) and signature, certifying the truth, accuracy, and completeness of the notification, a statement that the source has complied with all the relevant standards of this subpart, and that this initial notification also serves as the notification of compliance status.

(b) Notification of Compliance Status. If you are the owner or operator of a new source, you are not required to submit a separate notification of compliance status in addition to the initial notification specified in paragraph (a) of this subpart provided you were able to certify compliance on the date of the initial notification, as part of the initial notification, and your compliance status has not since changed. If you are the owner or operator of any existing source and did not certify in the initial notification that your source is already in compliance as specified in paragraph (a) of this section, then you must submit a notification of compliance status. You must submit a Notification of Compliance Status on or before March 11, 2011. You are required to submit the information specified in paragraphs (b)(1) through (4) of this section with your Notification of Compliance Status:

(1) Your company's name and the street address (physical location) of the affected source and the street address where compliance records are maintained, if different.

(2) The name, title, address, telephone, e-mail address (if available) and signature of the owner and operator, or other certifying company official, certifying the truth, accuracy, and completeness of the notification and a statement of whether the source has complied with all the relevant standards and other requirements of this subpart or an explanation of any noncompliance and a description of corrective actions being taken to achieve compliance. For paint stripping operations, the relevant requirements that you must evaluate in making this determination are specified in § 63.11173(a) through (d). For surface coating operations, the relevant requirements are specified in § 63.11173(e) through (g).

(3) The date of the Notification of Compliance Status.

(4) If you are the owner or operator of an existing affected paint stripping source that annually uses more than one ton of MeCl, you must submit a statement certifying that you have developed and are implementing a written MeCl minimization plan in accordance with § 63.11173(b).

§ 63.11176 What reports must I submit?

(a) Annual Notification of Changes Report. If you are the owner or operator of a paint stripping, motor vehicle or mobile equipment, or miscellaneous surface coating affected source, you are required to submit a report in each calendar year in which information previously submitted in either the initial notification required by § 63.11175(a), Notification of Compliance, or a previous annual notification of changes report submitted under this paragraph, has changed. Deviations from the relevant requirements in § 63.11173(a) through (d) or § 63.11173(e) through (g) on the date of the report will be deemed to be a change. This includes notification when paint stripping affected sources that have not developed and implemented a written MeCl minimization plan in accordance with § 63.11173(b) used more than one ton of MeCl in the previous calendar year. The annual notification of changes report must be submitted prior to March 1 of each calendar year when reportable changes have occurred and must include the information specified in paragraphs (a)(1) through (2) of this section.

(1) Your company's name and the street address (physical location) of the affected source and the street address where compliance records are maintained, if different.

(2) The name, title, address, telephone, e-mail address (if available) and signature of the owner and operator, or other certifying company official, certifying the truth, accuracy, and completeness of the notification and a statement of whether the source has complied with all the relevant standards and other requirements of this subpart or an explanation of any noncompliance and a description of corrective actions being taken to achieve compliance.

(b) If you are the owner or operator of a paint stripping affected source that has not developed and implemented a written MeCl minimization plan in accordance with § 63.11173(b) of this subpart, you must submit a report for any calendar year in which you use more than one ton of MeCl. This report must be submitted no later than March 1 of the following calendar year. You must also develop and implement a written MeCl minimization plan in accordance with § 63.11173(b) no later than December 31. You must then submit a Notification of Compliance Status report containing the information specified in § 63.11175(b) by March 1 of the following year and comply with the requirements for paint stripping operations that annually use more than one ton of MeCl in §§ 63.11173(d) and 63.11177(f).

§ 63.11177 What records must I keep?

If you are the owner or operator of a surface coating operation, you must keep the records specified in paragraphs (a) through (d) and (g) of this section. If you are the owner or operator of a paint stripping operation, you must keep the records specified in paragraphs (e) through (g) of this section, as applicable.

(a) Certification that each painter has completed the training specified in § 63.11173(f) with the date the initial training and the most recent refresher training was completed.

(b) Documentation of the filter efficiency of any spray booth exhaust filter material, according to the procedure in § 63.11173(e)(3)(i).

(c) Documentation from the spray gun manufacturer that each spray gun with a cup capacity equal to or greater than 3.0 fluid ounces (89 cc) that does not meet the definition of an HVLP spray gun, electrostatic application, airless spray gun, or air assisted airless spray gun, has been determined by the Administrator to achieve a transfer efficiency equivalent to that of an HVLP spray gun, according to the procedure in § 63.11173(e)(4).

(d) Copies of any notification submitted as required by § 63.11175 and copies of any report submitted as required by § 63.11176.

(e) Records of paint strippers containing MeCl used for paint stripping operations, including the MeCl content of the paint stripper used. Documentation needs to be sufficient to verify annual usage of paint strippers containing MeCl (e.g., material safety data sheets or other documentation provided by the manufacturer or supplier of the paint stripper, purchase receipts, records of paint stripper usage, engineering calculations).

(f) If you are a paint stripping source that annually uses more than one ton of MeCl you are required to maintain a record of your current MeCl minimization plan on site for the duration of your paint stripping operations. You must also keep records of your annual review of, and updates to, your MeCl minimization plan.

(g) Records of any deviation from the requirements in § 63.11173, § 63.11174, § 63.11175, or § 63.11176. These records must include the date and time period of the deviation, and a description of the nature of the deviation and the actions taken to correct the deviation.

(h) Records of any assessments of source compliance performed in support of the initial notification, notification of compliance status, or annual notification of changes report.

§ 63.11178 In what form and for how long must I keep my records?

(a) If you are the owner or operator of an affected source, you must maintain copies of the records specified in § 63.11177 for a period of at least five years after the date of each record. Copies of records must be kept on site and in a printed or electronic form that is readily accessible for inspection for at least the first two years after their date, and may be kept off-site after that two year period.

Other Requirements and Information

§ 63.11179 Who implements and enforces this subpart?

(a) This subpart can be implemented and enforced by us, the U.S. Environmental Protection Agency (EPA), or a delegated authority such as your State, local, or tribal agency. If the Administrator has delegated authority to your State, local, or tribal agency, then that agency (as well as the EPA) has the authority to implement and enforce this subpart. You should contact your EPA Regional Office to find out if implementation and enforcement of this subpart is delegated to your State, local, or tribal agency.

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

(c) The authority in § 63.11173(e)(5) will not be delegated to State, local, or tribal agencies.

§ 63.11180 What definitions do I need to know?

Terms used in this subpart are defined in the Clean Air Act, in 40 CFR 63.2, and in this section as follows:

Additive means a material that is added to a coating after purchase from a supplier (e.g., catalysts, activators, accelerators).

Administrator means, for the purposes of this rulemaking, the Administrator of the U.S. Environmental Protection Agency or the State or local agency that is granted delegation for implementation of this subpart.

Aerospace vehicle or component means any fabricated part, processed part, assembly of parts, or completed unit, with the exception of electronic components, of any aircraft including but not limited to airplanes, helicopters, missiles, rockets, and space vehicles.

Airless and air-assisted airless spray mean any paint spray technology that relies solely on the fluid pressure of the paint to create an atomized paint spray pattern and does not apply any atomizing compressed air to the paint before it leaves the paint nozzle. Air-assisted airless spray uses compressed air to shape and distribute the fan of atomized paint, but still uses fluid pressure to create the atomized paint.

Appurtenance means any accessory to a stationary structure coated at the site of installation, whether installed or detached, including but not limited to: bathroom and kitchen fixtures; cabinets; concrete forms; doors; elevators; fences; hand railings; heating equipment, air conditioning equipment, and other fixed mechanical equipment or stationary tools; lamp posts; partitions; pipes and piping systems; rain gutters and downspouts; stairways, fixed ladders, catwalks, and fire escapes; and window screens.

Architectural coating means a coating to be applied to stationary structures or their appurtenances at the site of installation, to portable buildings at the site of installation, to pavements, or to curbs.

Cleaning material means a solvent used to remove contaminants and other materials, such as dirt, grease, or oil, from a substrate before or after coating application or from equipment associated with a coating operation, such as spray booths, spray guns, racks, tanks, and hangers. Thus, it includes any cleaning material used on substrates or equipment or both.

Coating means, for the purposes of this subpart, a material spray-applied to a substrate for decorative, protective, or functional purposes. For the purposes of this subpart, coating does not include the following materials:

(1) Decorative, protective, or functional materials that consist only of protective oils for metal, acids, bases, or any combination of these substances.

(2) Paper film or plastic film that may be pre-coated with an adhesive by the film manufacturer.

(3) Adhesives, sealants, maskants, or caulking materials.

(4) Temporary protective coatings, lubricants, or surface preparation materials.

(5) In-mold coatings that are spray-applied in the manufacture of reinforced plastic composite parts.

Compliance date means the date by which you must comply with this subpart.

Deviation means any instance in which an affected source, subject to this subpart, or an owner or operator of such a source fails to meet any requirement or obligation established by this subpart.

Dry media blasting means abrasive blasting using dry media. Dry media blasting relies on impact and abrasion to remove paint from a substrate. Typically, a compressed air stream is used to propel the media against the coated surface.

Electrostatic application means any method of coating application where an electrostatic attraction is created between the part to be coated and the atomized paint particles.

Equipment cleaning means the use of an organic solvent to remove coating residue from the surfaces of paint spray guns and other painting related equipment, including, but not limited to stir sticks, paint cups, brushes, and spray booths.

Facility maintenance means, for the purposes of this subpart, surface coating performed as part of the routine repair or renovation of the tools, equipment, machinery, and structures that comprise the infrastructure of the affected facility and that are necessary for the facility to function in its intended capacity. *Facility maintenance* also includes surface coating associated with the installation of new equipment or structures, and the application of any surface coating as part of janitorial activities. *Facility maintenance* includes the application of coatings to stationary structures or their appurtenances at the site of installation, to portable buildings at the site of installation, to pavements, or to curbs. *Facility maintenance* also includes the refinishing of mobile equipment in the field or at the site where they are used in service and at which they are intended to remain indefinitely after refinishing. Such mobile equipment includes, but is not limited to, farm equipment and mining equipment for which it is not practical or feasible to move to a dedicated mobile equipment refinishing facility. Such mobile equipment also includes items, such as fork trucks, that are used in a manufacturing facility and which are refinished in that same facility. *Facility maintenance* does not include surface coating of motor vehicles, mobile equipment, or items that routinely leave and return to the facility, such as delivery trucks, rental equipment, or containers used to transport, deliver, distribute, or dispense commercial products to customers, such as compressed gas canisters.

High-volume, low-pressure (HVLP) spray equipment means spray equipment that is permanently labeled as such and used to apply any coating by means of a spray gun which is designed and operated between 0.1 and 10 pounds per square inch gauge (psig) air atomizing pressure measured dynamically at the center of the air cap and at the air horns.

Initial startup means the first time equipment is brought online in a paint stripping or surface coating operation, and paint stripping or surface coating is first performed.

Materials that contain HAP or *HAP-containing materials* mean, for the purposes of this subpart, materials that contain 0.1 percent or more by mass of any individual HAP that is an OSHA-defined carcinogen as specified in 29 CFR 1910.1200(d)(4), or 1.0 percent or more by mass for any other individual HAP.

Military munitions means all ammunition products and components produced or used by or for the U.S. Department of Defense (DoD) or for the U.S. Armed Services for national defense and security, including military munitions under the control of the Department of Defense, the U.S. Coast Guard, the National Nuclear Security Administration (NNSA), U.S. Department of Energy (DOE), and National Guard personnel. The term military munitions includes: confined gaseous, liquid, and solid propellants, explosives, pyrotechnics, chemical and riot control agents, smokes, and incendiaries used by DoD components, including bulk explosives and chemical warfare agents, chemical munitions, biological weapons, rockets, guided and ballistic missiles, bombs, warheads, mortar rounds, artillery ammunition, small arms ammunition, grenades, mines, torpedoes, depth charges, cluster munitions and dispensers, demolition charges, nonnuclear components of nuclear weapons, wholly inert ammunition products, and all devices and components of any items listed in this definition.

Miscellaneous parts and/or products means any part or product made of metal or plastic, or combinations of metal and plastic. Miscellaneous parts and/or products include, but are not limited to, metal and plastic components of the following types of products as well as the products themselves: motor vehicle parts and accessories for automobiles, trucks, recreational vehicles; automobiles and light duty trucks at automobile and light duty truck assembly plants; boats; sporting and recreational goods; toys; business machines; laboratory and medical equipment; and household and other consumer products.

Miscellaneous surface coating operation means the collection of equipment used to apply surface coating to miscellaneous parts and/or products made of metal or plastic, including applying cleaning solvents to prepare the surface before coating application, mixing coatings before application, applying coating to a surface, drying or curing

the coating after application, and cleaning coating application equipment, but not plating. A single surface coating operation may include any combination of these types of equipment, but always includes at least the point at which a coating material is applied to a given part. A surface coating operation includes all other steps (such as surface preparation with solvent and equipment cleaning) in the affected source where HAP are emitted from the coating of a part. The use of solvent to clean parts (for example, to remove grease during a mechanical repair) does not constitute a miscellaneous surface coating operation if no coatings are applied. A single affected source may have multiple surface coating operations. Surface coatings applied to wood, leather, rubber, ceramics, stone, masonry, or substrates other than metal and plastic are not considered miscellaneous surface coating operations for the purposes of this subpart.

Mobile equipment means any device that may be drawn and/or driven on a roadway including, but not limited to, heavy-duty trucks, truck trailers, fleet delivery trucks, buses, mobile cranes, bulldozers, street cleaners, agriculture equipment, motor homes, and other recreational vehicles (including camping trailers and fifth wheels).

Motor vehicle means any self-propelled vehicle, including, but not limited to, automobiles, light duty trucks, golf carts, vans, and motorcycles.

Motor vehicle and mobile equipment surface coating means the spray application of coatings to assembled motor vehicles or mobile equipment. For the purposes of this subpart, it does not include the surface coating of motor vehicle or mobile equipment parts or subassemblies at a vehicle assembly plant or parts manufacturing plant.

Non-HAP solvent means, for the purposes of this subpart, a solvent (including thinners and cleaning solvents) that contains less than 0.1 percent by mass of any individual HAP that is an OSHA-defined carcinogen as specified in 29 CFR 1910.1200(d)(4) and less than 1.0 percent by mass for any other individual HAP.

Paint stripping and/or miscellaneous surface coating source or facility means any shop, business, location, or parcel of land where paint stripping or miscellaneous surface coating operations are conducted.

Paint stripping means the removal of dried coatings from wood, metal, plastic, and other substrates. A single affected source may have multiple paint stripping operations.

Painter means any person who spray applies coating.

Plastic refers to substrates containing one or more resins and may be solid, porous, flexible, or rigid. Plastics include fiber reinforced plastic composites.

Protective oil means organic material that is applied to metal for the purpose of providing lubrication or protection from corrosion without forming a solid film. This definition of protective oil includes, but is not limited to, lubricating oils, evaporative oils (including those that evaporate completely), and extrusion oils.

Quality control activities means surface coating or paint stripping activities that meet all of the following criteria:

(1) The activities associated with a surface coating or paint stripping operation are intended to detect and correct defects in the final product by selecting a limited number of samples from the operation, and comparing the samples against specific performance criteria.

(2) The activities do not include the production of an intermediate or final product for sale or exchange for commercial profit; for example, parts that are surface coated or stripped are not sold and do not leave the facility.

(3) The activities are not a normal part of the surface coating or paint stripping operation; for example, they do not include color matching activities performed during a motor vehicle collision repair.

(4) The activities do not involve surface coating or stripping of the tools, equipment, machinery, and structures that comprise the infrastructure of the affected facility and that are necessary for the facility to function in its intended capacity; that is, the activities are not facility maintenance.

Research and laboratory activities means surface coating or paint stripping activities that meet one of the following criteria:

(1) Conducted at a laboratory to analyze air, soil, water, waste, or product samples for contaminants, or environmental impact.

(2) Activities conducted to test more efficient production processes, including alternative paint stripping or surface coating materials or application methods, or methods for preventing or reducing adverse environmental impacts, provided that the activities do not include the production of an intermediate or final product for sale or exchange for commercial profit.

(3) Activities conducted at a research or laboratory facility that is operated under the close supervision of technically trained personnel, the primary purpose of which is to conduct research and development into new processes and products and that is not engaged in the manufacture of products for sale or exchange for commercial profit.

Solvent means a fluid containing organic compounds used to perform paint stripping, surface prep, or cleaning of surface coating equipment.

Space Vehicle means vehicles designed to travel beyond the limit of the earth's atmosphere, including but not limited to satellites, space stations, and the Space Shuttle System (including orbiter, external tanks, and solid rocket boosters).

Spray-applied coating operations means coatings that are applied using a hand-held device that creates an atomized mist of coating and deposits the coating on a substrate. For the purposes of this subpart, spray-applied coatings do not include the following materials or activities:

(1) Coatings applied from a hand-held device with a paint cup capacity that is equal to or less than 3.0 fluid ounces (89 cubic centimeters).

(2) Surface coating application using powder coating, hand-held, non-refillable aerosol containers, or non-atomizing application technology, including, but not limited to, paint brushes, rollers, hand wiping, flow coating, dip coating, electrodeposition coating, web coating, coil coating, touch-up markers, or marking pens.

(3) Thermal spray operations (also known as metallizing, flame spray, plasma arc spray, and electric arc spray, among other names) in which solid metallic or non-metallic material is heated to a molten or semi-molten state and propelled to the work piece or substrate by compressed air or other gas, where a bond is produced upon impact.

Surface preparation or *Surface prep* means use of a cleaning material on a portion of or all of a substrate prior to the application of a coating.

Target HAP are compounds of chromium (Cr), lead (Pb), manganese (Mn), nickel (Ni), or cadmium (Cd).

Target HAP containing coating means a spray-applied coating that contains any individual target HAP that is an Occupational Safety and Health Administration (OSHA)-defined carcinogen as specified in 29 CFR 1910.1200(d)(4) at a concentration greater than 0.1 percent by mass, or greater than 1.0 percent by mass for any other individual target HAP compound. For the purpose of determining whether materials you use contain the target HAP compounds, you may rely on formulation data provided by the manufacturer or supplier, such as the material safety data sheet (MSDS), as long as it represents each target HAP compound in the material that is present at 0.1 percent by mass or more for OSHA-defined carcinogens as specified in 29 CFR 1910.1200(d)(4) and at 1.0 percent by mass or more for other target HAP compounds.

Transfer efficiency means the amount of coating solids adhering to the object being coated divided by the total amount of coating solids sprayed, expressed as a percentage. Coating solids means the nonvolatile portion of the coating that makes up the dry film.

Truck bed liner coating means any coating, excluding color coats, labeled and formulated for application to a truck bed to protect it from surface abrasion.

Table 1 to Subpart HHHHHH of Part 63—Applicability of General Provisions to Subpart HHHHHH of Part 63

Citation	Subject	Applicable to subpart HHHHHH	Explanation
§ 63.1(a)(1)-(12)	General Applicability	Yes	
§ 63.1(b)(1)-(3)	Initial Applicability Determination	Yes	Applicability of subpart HHHHHH is also specified in § 63.11170.
§ 63.1(c)(1)	Applicability After Standard Established	Yes	
§ 63.1(c)(2)	Applicability of Permit Program for Area Sources	Yes	(63.11174(b) of Subpart HHHHHH exempts area sources from the obligation to obtain Title V operating permits.
§ 63.1(c)(5)	Notifications	Yes	
§ 63.1(e)	Applicability of Permit Program to Major Sources Before Relevant Standard is Set	No	(63.11174(b) of Subpart HHHHHH exempts area sources from the obligation to obtain Title V operating permits.
§ 63.2	Definitions	Yes	Additional definitions are specified in § 63.11180.
§ 63.3(a)-(c)	Units and Abbreviations	Yes	
§ 63.4(a)(1)-(5)	Prohibited Activities	Yes	
§ 63.4(b)-(c)	Circumvention/Fragmentation	Yes	
§ 63.5	Construction/Reconstruction of major sources	No	Subpart HHHHHH applies only to area sources.
§ 63.6(a)	Compliance With Standards and Maintenance Requirements—Applicability	Yes	
§ 63.6(b)(1)-(7)	Compliance Dates for New and Reconstructed Sources	Yes	§ 63.11172 specifies the compliance dates.
§ 63.6(c)(1)-(5)	Compliance Dates for Existing Sources	Yes	§ 63.11172 specifies the compliance dates.
§ 63.6(e)(1)-(2)	Operation and Maintenance	Yes	
§ 63.6(e)(3)	Startup, Shutdown, and Malfunction Plan	No	No startup, shutdown, and malfunction plan is required by subpart HHHHHH.
§ 63.6(f)(1)	Compliance Except During Startup, Shutdown, and Malfunction	Yes	
§ 63.6(f)(2)-(3)	Methods for Determining Compliance	Yes	
§ 63.6(g)(1)-(3)	Use of an Alternative Standard	Yes	
§ 63.6(h)	Compliance With Opacity/Visible Emission Standards	No	Subpart HHHHHH does not establish opacity or visible emission standards.
§ 63.6(i)(1)-(16)	Extension of Compliance	Yes	
§ 63.6(j)	Presidential Compliance Exemption	Yes	
§ 63.7	Performance Testing Requirements	No	No performance testing is required by subpart HHHHHH.
§ 63.8	Monitoring Requirements	No	Subpart HHHHHH does not require the use of continuous monitoring systems.
§ 63.9(a)-(d)	Notification Requirements	Yes	§ 63.11175 specifies notification requirements.
§ 63.9(e)	Notification of Performance Test	No	Subpart HHHHHH does not require performance tests.
§ 63.9(f)	Notification of Visible Emissions/Opacity Test	No	Subpart HHHHHH does not have opacity or visible emission standards.

Citation	Subject	Applicable to subpart HHHHHH	Explanation
§ 63.9(g)	Additional Notifications When Using CMS	No	Subpart HHHHHH does not require the use of continuous monitoring systems.
§ 63.9(h)	Notification of Compliance Status	No	§ 63.11175 specifies the dates and required content for submitting the notification of compliance status.
§ 63.9(i)	Adjustment of Submittal Deadlines	Yes	
§ 63.9(j)	Change in Previous Information	Yes	§ 63.11176(a) specifies the dates for submitting the notification of changes report.
§ 63.10(a)	Recordkeeping/Reporting—Applicability and General Information	Yes	
§ 63.10(b)(1)	General Recordkeeping Requirements	Yes	Additional requirements are specified in § 63.11177.
§ 63.10(b)(2)(i)-(xi)	Recordkeeping Relevant to Startup, Shutdown, and Malfunction Periods and CMS	No	Subpart HHHHHH does not require startup, shutdown, and malfunction plans, or CMS.
§ 63.10(b)(2)(xii)	Waiver of recordkeeping requirements	Yes	
§ 63.10(b)(2)(xiii)	Alternatives to the relative accuracy test	No	Subpart HHHHHH does not require the use of CEMS.
§ 63.10(b)(2)(xiv)	Records supporting notifications	Yes	
§ 63.10(b)(3)	Recordkeeping Requirements for Applicability Determinations	Yes	
§ 63.10(c)	Additional Recordkeeping Requirements for Sources with CMS	No	Subpart HHHHHH does not require the use of CMS.
§ 63.10(d)(1)	General Reporting Requirements	Yes	Additional requirements are specified in § 63.11176.
§ 63.10(d)(2)-(3)	Report of Performance Test Results, and Opacity or Visible Emissions Observations	No	Subpart HHHHHH does not require performance tests, or opacity or visible emissions observations.
§ 63.10(d)(4)	Progress Reports for Sources With Compliance Extensions	Yes	
§ 63.10(d)(5)	Startup, Shutdown, and Malfunction Reports	No	Subpart HHHHHH does not require startup, shutdown, and malfunction reports.
§ 63.10(e)	Additional Reporting requirements for Sources with CMS	No	Subpart HHHHHH does not require the use of CMS.
§ 63.10(f)	Recordkeeping/Reporting Waiver	Yes	
§ 63.11	Control Device Requirements/Flares	No	Subpart HHHHHH does not require the use of flares.
§ 63.12	State Authority and Delegations	Yes	
§ 63.13	Addresses of State Air Pollution Control Agencies and EPA Regional Offices	Yes	
§ 63.14	Incorporation by Reference	Yes	Test methods for measuring paint booth filter efficiency and spray gun transfer efficiency in § 63.11173(e)(2) and (3) are incorporated and included in § 63.14.
§ 63.15	Availability of Information/Confidentiality	Yes	

Citation	Subject	Applicable to subpart HHHHHH	Explanation
§ 63.16(a)	Performance Track Provisions—reduced reporting	Yes	
§ 63.16(b)-(c)	Performance Track Provisions—reduced reporting	No	Subpart HHHHHH does not establish numerical emission limits.

Indiana Department of Environmental Management
Office of Air Quality

Attachment B

Title 40: Protection of Environment

40 CFR 63, Subpart WWWWWW—National Emission Standards for Hazardous Air Pollutants: Area Source Standards for Plating and Polishing Operations

Source: 73 FR 37741, July 1, 2008, unless otherwise noted.

Applicability and Compliance Dates

§ 63.11504 Am I subject to this subpart?

(a) You are subject to this subpart if you own or operate a plating and polishing facility that is an area source of hazardous air pollutant (HAP) emissions and meets the criteria specified in paragraphs (a)(1) through (3) of this section.

(1) A plating and polishing facility is a plant site that is engaged in one or more of the processes listed in paragraphs (a)(1)(i) through (vi) of this section.

(i) Electroplating other than chromium electroplating (i.e., non-chromium electroplating).

(ii) Electroless or non-eletrolytic plating.

(iii) Other non-electrolytic metal coating processes, such as chromate conversion coating, nickel acetate sealing, sodium dichromate sealing, and manganese phosphate coating; and thermal spraying.

(iv) Dry mechanical polishing of finished metals and formed products after plating or thermal spraying.

(v) Electroforming.

(vi) Electropolishing.

(2) A plating or polishing facility is an area source of HAP emissions, where an area source is any stationary source or group of stationary sources within a contiguous area under common control that does not have the potential to emit any single HAP at a rate of 9.07 megagrams per year (Mg/yr) (10 tons per year (tpy)) or more and any combination of HAP at a rate of 22.68 Mg/yr (25 tpy) or more.

(3) Your plating and polishing facility uses or has emissions of compounds of one or more plating and polishing metal HAP, which means any compound of any of the following metals: cadmium, chromium, lead, manganese, and nickel, as defined in § 63.11511, “What definitions apply to this subpart?” With the exception of lead, plating and polishing metal HAP also include any of these metals in the elemental form.

(b) [Reserved]

[73 FR 37741, July 1, 2008, as amended at 76 FR 57919, Sept. 19, 2011]

§ 63.11505 What parts of my plant does this subpart cover?

(a) This subpart applies to each new or existing affected source, as specified in paragraphs (a)(1) through (3) of this section, at all times. A new source is defined in § 63.11511, “What definitions apply to this subpart?”

(1) Each tank that contains one or more of the plating and polishing metal HAP, as defined in § 63.11511, “What definitions apply to this subpart?”, and is used for non-chromium electroplating; electroforming; electropolishing; electroless plating or other non-electrolytic metal coating operations, such as chromate conversion coating, nickel acetate sealing, sodium dichromate sealing, and manganese phosphate coating.

(2) Each thermal spraying operation that applies one or more of the plating and polishing metal HAP, as defined in § 63.11511, “What definitions apply to this subpart?”

(3) Each dry mechanical polishing operation that emits one or more of the plating and polishing metal HAP, as defined in § 63.11511, “What definitions apply to this subpart?”

(b) An affected source is existing if you commenced construction or reconstruction of the affected source on or before March 14, 2008.

(c) An affected source is new if you commenced construction or reconstruction of the affected source after March 14, 2008.

(d) This subpart does not apply to any of the process units or operations described in paragraphs (d)(1) through (6) of this section.

(1) Process units that are subject to the requirements of 40 CFR part 63, subpart N (National Emission Standards for Chromium Emissions from Hard and Decorative Chromium Electroplating and Chromium Anodizing Tanks).

(2) Research and development process units, as defined in § 63.11511, “What definitions apply to this subpart?”

(3) Process units that are used strictly for educational purposes.

(4) Plating, polishing, coating, or thermal spraying conducted to repair surfaces or equipment.

(5) Dry mechanical polishing conducted to restore the original finish to a surface.

(6) Any plating or polishing process that uses process materials that contain cadmium, chromium, lead, or nickel (as the metal) in amounts less than 0.1 percent by weight, or that contain manganese in amounts less than 1.0 percent by weight (as the metal), as used. Information used to determine the amount of plating and polishing metal HAP in materials used in the plating or polishing process may include information reported on the Material Safety Data Sheet for the material, but is not required. For plating or polishing tanks, the HAP content may be determined from the final bath contents “as used” to plate or to polish.

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

[73 FR 37741, July 1, 2008, as amended at 76 FR 57919, Sept. 19, 2011]

§ 63.11506 What are my compliance dates?

(a) If you own or operate an existing affected source, you must achieve compliance with the applicable provisions of this subpart no later than July 1, 2010.

(b) If you own or operate a new affected source for which the initial startup date is on or before July 1, 2008, you must achieve compliance with the provisions of this subpart no later than July 1, 2008.

(c) If you own or operate a new affected source for which the initial startup date is after July 1, 2008, you must achieve compliance with the provisions of this subpart upon initial startup of your affected source.

Standards and Compliance Requirements

§ 63.11507 What are my standards and management practices?

(a) If you own or operate an affected new or existing non-cyanide electroplating, electroforming, or electropolishing tank (hereafter referred to as an “electrolytic” process tank, as defined in § 63.11511, “What definitions apply to this subpart?”) that contains one or more of the plating and polishing metal HAP and operates at a pH of less than 12, you must comply with the requirements in paragraph (a)(1), (2), or (3) of this section, and implement the applicable management practices in paragraph (g) of this section, as practicable.

(1) You must use a wetting agent/fume suppressant in the bath of the affected tank, as defined in § 63.11511, “What definitions apply to this subpart?” and according to paragraphs (a)(1)(i) through (iii) of this section.

(i) You must initially add the wetting agent/fume suppressant in the amounts recommended by the manufacturer for the specific type of electrolytic process.

(ii) You must add wetting agent/fume suppressant in proportion to the other bath chemistry ingredients that are added to replenish the bath, as in the original make-up of the bath, or in proportions such that the bath contents are returned to that of the original make-up of the bath.

(iii) If a wetting agent/fume suppressant is included in the electrolytic process bath chemicals used in the affected tank according to the manufacturer's instructions, it is not necessary to add additional wetting agent/fume suppressants to the tank to comply with this rule.

(2) You must capture and exhaust emissions from the affected tank to any one of the following emission control devices: composite mesh pad, packed bed scrubber, or mesh pad mist eliminator, according to paragraphs (a)(2)(i) and (ii) of this section.

(i) You must operate all capture and control devices according to the manufacturer's specifications and operating instructions.

(ii) You must keep the manufacturer's specifications and operating instructions at the facility at all times in a location where they can be easily accessed by the operators.

(3) You must cover the tank surface according to paragraph (a)(3)(i) or (ii) of this section.

(i) For batch electrolytic process tanks, as defined in § 63.11511, “What definitions apply to this subpart?”, you must use a tank cover, as defined in § 63.11511, over all of the effective surface area of the tank for at least 95 percent of the electrolytic process operating time.

(ii) For continuous electrolytic process tanks, as defined in § 63.11511, “What definitions apply to this subpart?”, you must cover at least 75 percent of the surface of the tank, as defined in § 63.11511, whenever the electrolytic process tank is in operation.

(b) If you own or operate an affected new or existing “flash” or short-term electroplating tank, as defined in § 63.11511, “What definitions apply to this subpart?”, that uses or emits one or more of the plating and polishing metal HAP, you must comply with the requirements specified in paragraph (b)(1) or (b)(2), and implement the applicable management practices in paragraph (g) of this section, as practicable.

(1) You must limit short-term or “flash” electroplating to no more than 1 cumulative hour per day or 3 cumulative minutes per hour of plating time.

(2) You must use a tank cover, as defined in § 63.11511, “What definitions apply to this subpart?”, for at least 95 percent of the plating time.

(c) If you own or operate an affected new or existing process tank that is used both for short-term electroplating and for electrolytic processing of longer duration (i.e., processing that does not meet the definition of short-term or flash electroplating) and contains one or more of the plating and polishing metal HAP, you must meet the requirements specified in paragraph (a) or (b) of this section, whichever apply to the process operation, and implement the applicable management practices in paragraph (g) of this section, as practicable.

(d) If you own or operate an affected new or existing electroplating tank that uses cyanide in the plating bath, operates at pH greater than or equal to 12, and contains one or more of the plating and polishing metal HAP, you must comply with the requirements in paragraphs (d)(1) and (2) of this section:

(1) You must measure and record the pH of the bath upon startup of the bath, as defined in § 63.11511, “What definitions apply to this subpart?” No additional pH measurements are required.

(2) You must implement the applicable management practices in paragraph (g) of this section, as practicable.

(e) If you own or operate an affected new or existing dry mechanical polishing machine that emits one or more of the plating and polishing metal HAP, you must operate a capture system that captures particulate matter (PM) emissions from the dry mechanical polishing process and transports the emissions to a cartridge, fabric, or high efficiency particulate air (HEPA) filter, according to paragraphs (e)(1) and (2) of this section.

(1) You must operate all capture and control devices according to the manufacturer's specifications and operating instructions.

(2) You must keep the manufacturer's specifications and operating instructions at the facility at all times in a location where they can be easily accessed by the operators.

(f) If you own or operate an affected thermal spraying operation that applies one or more of the plating and polishing metal HAP, you must meet the applicable requirements specified in paragraphs (f)(1) through (3) of this section, and the applicable management practices in paragraph (g) of this section.

(1) For existing permanent thermal spraying operations, you must operate a capture system that collects PM emissions from the thermal spraying process and transports the emissions to a water curtain, fabric filter, cartridge, or HEPA filter, according to paragraphs (f)(1)(i) and (ii) of this section.

(2) For new permanent thermal spraying operations, you must operate a capture system that collects PM emissions from the thermal spraying process and transports the emissions to a fabric, cartridge, or HEPA filter, according to paragraphs (f)(2)(i) and (ii) of this section.

(3) For temporary thermal spraying operations, as defined in § 63.11511 “What definitions apply to this subpart?”, you must meet the applicable requirements specified in paragraphs (f)(3)(i) and (ii) of this section.

(i) You must document the amount of time the thermal spraying occurs each day, and where it is conducted.

(ii) You must implement the applicable management practices specified in paragraph (g) of this section, as practicable.

(g) If you own or operate an affected new or existing plating and polishing process unit that contains, applies, or emits one or more of the plating and polishing metal HAP, you must implement the applicable management practices in paragraphs (g)(1) through (12) of this section, as practicable.

(1) Minimize bath agitation when removing any parts processed in the tank, as practicable except when necessary to meet part quality requirements.

(2) Maximize the draining of bath solution back into the tank, as practicable, by extending drip time when removing parts from the tank; using drain boards (also known as drip shields); or withdrawing parts slowly from the tank, as practicable.

(3) Optimize the design of barrels, racks, and parts to minimize dragout of bath solution (such as by using slotted barrels and tilted racks, or by designing parts with flow-through holes to allow the tank solution to drip back into the tank), as practicable.

(4) Use tank covers, if already owned and available at the facility, whenever practicable.

(5) Minimize or reduce heating of process tanks, as practicable (e.g., when doing so would not interrupt production or adversely affect part quality).

(6) Perform regular repair, maintenance, and preventive maintenance of racks, barrels, and other equipment associated with affected sources, as practicable.

(7) Minimize bath contamination, such as through the prevention or quick recovery of dropped parts, use of distilled/de-ionized water, water filtration, pre-cleaning of parts to be plated, and thorough rinsing of pre-treated parts to be plated, as practicable.

(8) Maintain quality control of chemicals, and chemical and other bath ingredient concentrations in the tanks, as practicable.

(9) Perform general good housekeeping, such as regular sweeping or vacuuming, if needed, and periodic washdowns, as practicable.

(10) Minimize spills and overflow of tanks, as practicable.

(11) Use squeegee rolls in continuous or reel-to-reel plating tanks, as practicable.

(12) Perform regular inspections to identify leaks and other opportunities for pollution prevention.

[73 FR 37741, July 1, 2008, as amended at 76 FR 57920, Sept. 19, 2011]

§ 63.11508 What are my compliance requirements?

(a) If you own or operate an affected source, you must submit a Notification of Compliance Status in accordance with § 63.11509(b) of “What are my notification, reporting, and recordkeeping requirements?”

(b) You must be in compliance with the applicable management practices and equipment standards in this subpart at all times.

(c) To demonstrate initial compliance, you must satisfy the requirements specified in paragraphs (c)(1) through (11) of this section.

(1) If you own or operate an affected electroplating, electroforming, or electropolishing tank that contains one or more of the plating and polishing metal HAP and is subject to the requirements in § 63.11507(a), “What are my standards and management practices?”, and you use a wetting agent/fume suppressant to comply with this subpart, you must demonstrate initial compliance according to paragraphs (c)(1)(i) through (iv) of this section.

(i) You must add wetting agent/fume suppressant to the bath of each affected tank according to manufacturer's specifications and instructions.

(ii) You must state in your Notification of Compliance Status that you add wetting agent/fume suppressant to the bath according to manufacturer's specifications and instructions.

(iii) You must implement the applicable management practices specified in § 63.11507(g), “What are my standards and management practices?”, as practicable.

(iv) You must state in your Notification of Compliance Status that you have implemented the applicable management practices specified in § 63.11507(g), “What are my standards and management practices?”, as practicable.

(2) If you own or operate an affected electroplating, electroforming, or electropolishing tank that contains one or more of the plating and polishing metal HAP and is subject to the requirements in § 63.11507(a), “What are my standards and management practices?”, and you use a control system, as defined in § 63.11511, “What definitions apply to this subpart?”, to comply with this subpart, you must demonstrate initial compliance according to paragraphs (c)(2)(i) through (v) of this section.

(i) You must install a control system designed to capture emissions from the affected tank and exhaust them to a composite mesh pad, packed bed scrubber, or mesh pad mist eliminator.

(ii) You must state in your Notification of Compliance Status that you have installed the control system according to the manufacturer's specifications and instructions.

(iii) You must implement the applicable management practices specified in § 63.11507(g), “What are my standards and management practices?”, as practicable.

(iv) You must state in your Notification of Compliance Status that you have implemented the applicable management practices specified in § 63.11507(g), “What are my standards and management practices?”, as practicable.

(v) You must follow the manufacturer's specifications and operating instructions for the control systems at all times.

(3) If you own or operate an affected batch electrolytic process tank, as defined in § 63.11511, “What definitions apply to this subpart?” that contains one or more of the plating and polishing metal HAP and which is subject to the requirements in § 63.11507(a), “What are my standards and management practices?” and you use a tank cover, as defined in § 63.11511, to comply with § 11507(a), (b) or (c) of this subpart, you must demonstrate initial compliance according to paragraphs (c)(3)(i) through (iv) of this section.

(i) You must install a tank cover on the affected tank.

(ii) You must state in your Notification of Compliance Status that you operate the tank with the cover in place at least 95 percent of the electrolytic process operating time.

(iii) You must implement the applicable management practices specified in § 63.11507(g), “What are my standards and management practices?”, as practicable.

(iv) You must state in your Notification of Compliance Status that you have implemented the applicable management practices specified in § 63.11507(g), “What are my standards and management practices?”, as practicable.

(4) If you own or operate an affected continuous electrolytic process tank, as defined in § 63.11511, “What definitions apply to this subpart?” that contains one or more of the plating and polishing metal HAP and is subject to the requirements in § 63.11507(a), “What are my standards and management practices?” and you cover the tank surface to comply with § 11507(a), (b) or (c) of this subpart, you must demonstrate initial compliance according to paragraphs (c)(4)(i) through (iv) of this section.

(i) You must cover at least 75 percent of the surface area of the affected tank.

(ii) You must state in your Notification of Compliance Status that you operate the tank with the surface cover in place whenever the continuous electrolytic process is in operation.

(iii) You must implement the applicable management practices specified in § 63.11507(g), “What are my standards and management practices?”, as practicable.

(iv) You must state in your Notification of Compliance Status that you have implemented the applicable management practices specified in § 63.11507(g), “What are my standards and management practices?”, as practicable.

(5) If you own or operate an affected flash or short-term electroplating tank that contains one or more of the plating and polishing metal HAP and is subject to the requirements in § 63.11507(b), “What are my standards and management practices?” and you comply with § 11507(a), (b) or (c) of this subpart by limiting the plating time of the affected tank, you must demonstrate initial compliance according to paragraphs (c)(5)(i) through (iii) of this section.

(i) You must state in your Notification of Compliance Status that you limit short-term or flash electroplating to no more than 1 cumulative hour per day, or 3 cumulative minutes per hour of plating time.

(ii) You must implement the applicable management practices specified in § 63.11507(g), “What are my standards and management practices?”, as practicable.

(iii) You must state in your Notification of Compliance Status that you have implemented the applicable management practices specified in § 63.11507(g), “What are my standards and management practices?”, as practicable.

(6) If you own or operate an affected flash or short-term electroplating tank that contains one or more of the plating and polishing metal HAP and is subject to the requirements in § 63.11507(b), “What are my standards and management practices?” and you comply with § 11507(a), (b) or (c) of this subpart by operating the affected tank with a cover, you must demonstrate initial compliance according to paragraphs (c)(6)(i) through (iv) of this section.

(i) You must install a tank cover on the affected tank.

(ii) You must state in your Notification of Compliance Status that you operate the tank with the cover in place at least 95 percent of the plating time.

(iii) You must implement the applicable management practices specified in § 63.11507(g), “What are my standards and management practices?”, as practicable.

(iv) You must state in your Notification of Compliance Status that you have implemented the applicable management practices specified in § 63.11507(g), “What are my standards and management practices?”, as practicable.

(7) If you own or operate an affected tank that contains one or more of the plating and polishing metal HAP, uses cyanide in the bath, and is subject to the management practices specified in § 63.11507(d), “What are my standards and management practices?”, you must demonstrate initial compliance according to paragraphs (c)(7)(i) through (iii) of this section.

(i) You must report in your Notification of Compliance Status the pH of the bath solution that was measured at startup, as defined in § 63.11511, according to the requirements of § 63.11507(d)(1).

(ii) You must implement the applicable management practices specified in § 63.11507(g), “What are my standards and management practices?”, as practicable.

(iii) You must state in your Notification of Compliance Status that you have implemented the applicable management practices specified in § 63.11490(g), “What are my standards and management practices?”, as practicable.

(8) If you own or operate an affected dry mechanical polishing operation that emits one or more of the plating and polishing metal HAP and is subject to the requirements in § 63.11507(e), “What are my standards and management practices?”, you must demonstrate initial compliance according to paragraphs (c)(8)(i) through (iii) of this section.

(i) You must install a control system that is designed to capture PM emissions from the polishing operation and exhaust them to a cartridge, fabric, or HEPA filter.

(ii) You must state in your Notification of Compliance Status that you have installed the control system according to the manufacturer's specifications and instructions.

(iii) You must keep the manufacturer's operating instructions at the facility at all times in a location where they can be easily accessed by the operators.

(9) If you own or operate an existing affected permanent thermal spraying operation that applies one or more of the plating and polishing metal HAP and is subject to the requirements in § 63.11507(f)(1), “What are my standards and management practices?”, you must demonstrate initial compliance according to paragraphs (c)(9)(i) through (iii) of this section.

(i) You must install a control system that is designed to capture PM emissions from the thermal spraying operation and exhaust them to a water curtain, or a cartridge, fabric, or HEPA filter.

(ii) You must state in your Notification of Compliance Status that you have installed and are operating the control system according to the manufacturer's specifications and instructions.

(iii) You must keep the manufacturer's operating instructions at the facility at all times in a location where they can be easily accessed by the operators.

(10) If you own or operate a new affected permanent thermal spraying operation that applies one or more of the plating and polishing metal HAP and is subject to the requirements in § 63.11507(f)(2), “What are my standards and management practices?”, you must demonstrate initial compliance according to paragraphs (c)(10)(i) through (iii) of this section.

(i) You must install and operate a control system that is designed to capture PM emissions from the thermal spraying operation and exhaust them to a cartridge, fabric, or HEPA filter.

(ii) You must state in your Notification of Compliance Status that you have installed and operate the control system according to the manufacturer's specifications and instructions.

(iii) You must keep the manufacturer's operating instructions at the facility at all times in a location where they can be easily accessed by the operators.

(11) If you own or operate an affected temporary thermal spraying operation that applies one or more of the plating and polishing metal HAP and is subject to the requirements in § 63.11507(f)(3), “What are my standards and management practices?”, you must demonstrate initial compliance according to paragraphs (c)(11)(i) and (ii) of this section.

(i) You must implement the applicable management practices specified in § 63.11507(g), “What are my standards and management practices?”, as practicable.

(ii) You must state in your Notification of Compliance Status that you have implemented the applicable management practices specified in § 63.11507(g), “What are my standards and management practices?”, as practicable.

(d) To demonstrate continuous compliance with the applicable management practices and equipment standards specified in this subpart, you must satisfy the requirements specified in paragraphs (d)(1) through (8) of this section.

(1) You must always operate and maintain your affected source, including air pollution control equipment.

(2) You must prepare an annual compliance certification according to the requirements specified in § 63.11509(c), “Notification, Reporting, and Recordkeeping,” and keep it in a readily-accessible location for inspector review.

(3) If you own or operate an affected electroplating, electroforming, or electropolishing tank that contains one or more of the plating and polishing metal HAP and is subject to the requirements in § 63.11507(a), “What are my standards and management practices?”, and you use a wetting agent/fume suppressant to comply with this subpart, you must demonstrate continuous compliance according to paragraphs (d)(3)(i) through (iii) of this section.

(i) You must record that you have added the wetting agent/fume suppressant to the tank bath in the original make-up of the tank.

(ii) For tanks where the wetting agent/fume suppressant is a separate ingredient from the other tank additives, you must demonstrate continuous compliance according to paragraphs (d)(3)(ii) (A) and (B) this section.

(A) You must add wetting agent/fume suppressant in proportion to the other bath chemistry ingredients that are added to replenish the tank bath, as in the original make-up of the tank; or in proportion such that the bath is brought back to the original make-up of the tank.

(B) You must record each addition of wetting agent/fume suppressant to the tank bath.

(iii) You must state in your annual compliance certification that you have added wetting agent/fume suppressant to the bath according to the manufacturer's specifications and instructions.

(4) If you own or operate an affected electroplating, electroforming, or electropolishing tank that contains one or more of the plating and polishing metal HAP and is subject to the requirements in § 63.11507(a), “What are my standards and management practices?”, and you use a control system to comply with this subpart; an affected dry mechanical polishing operation that is subject to § 63.11507(e); or an affected thermal spraying operation that is subject to § 63.11507(f)(1) or (2), you must demonstrate continuous compliance according to paragraphs (d)(4)(i) through (v) of this section.

(i) You must operate and maintain the control system according to the manufacturer's specifications and instructions.

(ii) Following any malfunction or failure of the capture or control devices to operate properly, you must take immediate corrective action to return the equipment to normal operation according to the manufacturer's specifications and operating instructions.

(iii) You must state in your annual certification that you have operated and maintained the control system according to the manufacturer's specifications and instructions.

(iv) You must record the results of all control system inspections, deviations from proper operation, and any corrective action taken.

(v) You must keep the manufacturer's operating instructions at the facility at all times in a location where they can be easily accessed by the operators.

(5) If you own or operate an affected flash or short-term electroplating tank that contains one or more of the plating and polishing metal HAP and is subject to the requirements in § 63.11507(b), “What are my standards and management practices?” and you comply with § 11507(a), (b) or (c) of this subpart by limiting the plating time for the affected tank, you must demonstrate continuous compliance according to paragraphs (d)(5)(i) through (iii) of this section.

(i) You must limit short-term or flash electroplating to no more than 1 cumulative hour per day or 3 cumulative minutes per hour of plating time.

(ii) You must record the times that the affected tank is operated each day.

(iii) You must state in your annual compliance certification that you have limited short-term or flash electroplating to no more than 1 cumulative hour per day or 3 cumulative minutes per hour of plating time.

(6) If you own or operate an affected batch electrolytic process tank that contains one or more of the plating and polishing metal HAP and is subject to the requirements of § 63.11507(a), “What are my standards and management practices?” or a flash or short-term electroplating tank that contains one or more of the plating and polishing metal HAP and is subject to the requirements in § 63.11507(b), and you comply with § 11507(a), (b) or (c) of this section by operating the affected tank with a cover, you must demonstrate continuous compliance according to paragraphs (d)(6)(i) through (iii) of this section.

(i) You must operate the tank with the cover in place at least 95 percent of the electrolytic process operating time.

(ii) You must record the times that the tank is operated and the times that the tank is covered on a daily basis.

(iii) You must state in your annual certification that you have operated the tank with the cover in place at least 95 percent of the electrolytic process time.

(7) If you own or operate an affected continuous electrolytic process tank that contains one or more of the plating and polishing metal HAP and is subject to the requirements in § 63.11507(a), “What are my standards and management practices?” and you comply with § 11507(a), (b) or (c) of this subpart by operating the affected tank with a cover, you must demonstrate continuous compliance according to paragraphs (d)(7)(i) and (ii) of this section.

(i) You must operate the tank with at least 75 percent of the surface covered during all periods of electrolytic process operation.

(ii) You must state in your annual certification that you have operated the tank with 75 percent of the surface covered during all periods of electrolytic process operation.

(8) If you own or operate an affected tank or other operation that is subject to the management practices specified in § 63.11507(g), “What are my standards and management practices?”, you must demonstrate continuous compliance according to paragraphs (d)(8)(i) and (ii) of this section.

(i) You must implement the applicable management practices during all times that the affected tank or process is in operation.

(ii) You must state in your annual compliance certification that you have implemented the applicable management practices, as practicable.

[73 FR 37741, July 1, 2008, as amended at 76 FR 57920, Sept. 19, 2011]

§ 63.11509 What are my notification, reporting, and recordkeeping requirements?

(a) If you own or operate an affected source, as defined in § 63.11505(a), “What parts of my plant does this subpart cover?”, you must submit an Initial Notification in accordance with paragraphs (a)(1) through (4) of this section by the dates specified.

(1) The Initial Notification must include the information specified in § 63.9(b)(2)(i) through (iv) of the General Provisions of this part.

(2) The Initial Notification must include a description of the compliance method (e.g., use of wetting agent/fume suppressant) for each affected source.

(3) If you start up your affected source on or before July 1, 2008, you must submit an Initial Notification not later than 120 calendar days after July 1, 2008.

(4) If you startup your new affected source after July 1, 2008, you must submit an Initial Notification when you become subject to this subpart.

(b) If you own or operate an affected source, you must submit a Notification of Compliance Status in accordance with paragraphs (b)(1) through (3) of this section.

(1) The Notification of Compliance Status must be submitted before the close of business on the compliance date specified in § 63.11506, “What are my compliance dates?”

(2) The Notification of Compliance Status must include the items specified in paragraphs (b)(2)(i) through (iv) of this section.

(i) List of affected sources and the plating and polishing metal HAP used in, or emitted by, those sources.

(ii) Methods used to comply with the applicable management practices and equipment standards.

(iii) Description of the capture and emission control systems used to comply with the applicable equipment standards.

(iv) Statement by the owner or operator of the affected source as to whether the source is in compliance with the applicable standards or other requirements.

(3) If a facility makes a change to any items in (b)(2)(i), iii, and (iv) of this section that does not result in a deviation, an amended Notification of Compliance Status should be submitted within 30 days of the change.

(c) If you own or operate an affected source, you must prepare an annual certification of compliance report according to paragraphs (c)(1) through (7) of this section. These reports do not need to be submitted unless a deviation from the requirements of this subpart has occurred during the reporting year, in which case, the annual compliance report must be submitted along with the deviation report.

(1) If you own or operate an affected electroplating, electroforming, or electropolishing tank that is subject to the requirements in § 63.11507(a)(1), “What are my standards and management practices?”, you must state in your annual compliance certification that you have added wetting agent/fume suppressant to the bath according to the manufacturer's specifications and instructions.

(2) If you own or operate any one of the affected sources listed in paragraphs (c)(2)(i) through (iii) of this section, you must state in your annual certification that you have operated and maintained the control system according to the manufacturer's specifications and instructions.

(i) Electroplating, electroforming, or electropolishing tank that is subject to the requirements in § 63.11507(a), “What are my standards and management practices?”, and you use a control system to comply with this subpart;

(ii) Dry mechanical polishing operation that is subject to § 63.11507(e); or

(iii) Permanent thermal spraying operation that is subject to § 63.11507(f)(1) or (2).

(3) If you own or operate an affected flash or short-term electroplating tank that is subject to the requirements in § 63.11507(b), “What are my standards and management practices?” and you comply with § 11507(a), (b) or (c) of this subpart by limiting the plating time of the affected tank, you must state in your annual compliance certification that you have limited short-term or flash electroplating to no more than 1 cumulative hour per day or 3 cumulative minutes per hour of plating time.

(4) If you own or operate an affected batch electrolytic process tank that is subject to the requirements of § 63.11507(a) or a flash or short-term electroplating tank that is subject to the requirements in § 63.11507(b), “What are my standards and management practices?” and you comply with § 11507(a), (b) or (c) of this subpart by operating the affected tank with a cover, you must state in your annual certification that you have operated the tank with the cover in place at least 95 percent of the electrolytic process time.

(5) If you own or operate an affected continuous electrolytic process tank that is subject to the requirements of § 63.11507(a), “What are my standards and management practices?” and you comply with § 11507(a), (b) or (c) of this subpart by operating the affected tank with a cover, you must state in your annual certification that you have covered at least 75 percent of the surface area of the tank during all periods of electrolytic process operation.

(6) If you own or operate an affected tank or other affected plating and polishing operation that is subject to the management practices specified in § 63.11507(g), “What are my standards and management practices?” you must state in your annual compliance certification that you have implemented the applicable management practices, as practicable.

(7) Each annual compliance report must be prepared no later than January 31 of the year immediately following the reporting period and kept in a readily-accessible location for inspector review. If a deviation has occurred during the year, each annual compliance report must be submitted along with the deviation report, and postmarked or delivered no later than January 31 of the year immediately following the reporting period.

(d) If you own or operate an affected source, and any deviations from the compliance requirements specified in this subpart occurred during the year, you must report the deviations, along with the corrective action taken, and submit this report to the delegated authority.

(e) You must keep the records specified in paragraphs (e)(1) through (3) of this section.

(1) A copy of any Initial Notification and Notification of Compliance Status that you submitted and all documentation supporting those notifications.

(2) The records specified in § 63.10(b)(2)(i) through (iii) and (xiv) of the General Provisions of this part.

(3) The records required to show continuous compliance with each management practice and equipment standard that applies to you, as specified in § 63.11508(d), “What are my compliance requirements?”

(f) You must keep each record for a minimum of 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. You must keep each record onsite for at least 2 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to § 63.10(b)(1) of the General Provisions to part 63. You may keep the records offsite for the remaining 3 years.

[73 FR 37741, July 1, 2008, as amended at 76 FR 57920, Sept. 19, 2011]

Other Requirements and Information

§ 63.11510 What General Provisions apply to this subpart?

If you own or operate a new or existing affected source, you must comply with the requirements of the General Provisions (40 CFR part 63, subpart A) according to Table 1 of this subpart.

§ 63.11511 What definitions apply to this subpart?

Terms used in this subpart are defined in this section.

Batch electrolytic process tank means a tank used for an electrolytic process in which a part or group of parts, typically mounted on racks or placed in barrels, is placed in the tank and immersed in an electrolytic process solution as a single unit (i.e., as a batch) for a predetermined period of time, during which none of the parts are removed from the tank and no other parts are added to the tank, and after which the part or parts are removed from the tank as a unit.

Bath means the liquid contents of a tank, as defined in this section, which is used for electroplating, electroforming, electropolishing, or other metal coating processes at a plating and polishing facility.

Bench-scale means any operation that is small enough to be performed on a bench, table, or similar structure so that the equipment is not directly contacting the floor.

Capture system means the collection of components used to capture gases and fumes released from one or more emissions points and then convey the captured gas stream to a control device, as part of a complete control system. A capture system may include, but is not limited to, the following components as applicable to a given capture system design: duct intake devices, hoods, enclosures, ductwork, dampers, manifolds, plenums, and fans.

Cartridge filter means a type of control device that uses perforated metal cartridges containing a pleated paper or non-woven fibrous filter media to remove PM from a gas stream by sieving and other mechanisms. Cartridge filters can be designed with single use cartridges, which are removed and disposed after reaching capacity, or continuous use cartridges, which typically are cleaned by means of a pulse-jet mechanism.

Composite mesh pad means a type of control device similar to a mesh pad mist eliminator except that the device is designed with multiple pads in series that are woven with layers of material with varying fiber diameters, which produce a coalescing effect on the droplets or PM that impinge upon the pads.

Continuous electrolytic process tank means a tank that uses an electrolytic process and in which a continuous metal strip or other type of continuous substrate is fed into and removed from the tank continuously. This process is also called reel-to-reel electrolytic plating.

Control device means equipment that is part of a control system that collects and/or reduces the quantity of a pollutant that is emitted to the air. The control device receives emissions that are transported from the process by the capture system.

Control system means the combination of a capture system and a control device. The capture system is designed to collect and transport air emissions from the affected source to the control device. The overall control efficiency of any control system is a combination of the ability of the system to capture the air emissions (i.e., the capture efficiency) and the control device efficiency. Consequently, it is important to achieve good capture to ensure good overall control efficiency. Capture devices that are known to provide high capture efficiencies include hoods, enclosures, or any other duct intake devices with ductwork, dampers, manifolds, plenums, or fans.

Conversion coatings are coatings that form a hard metal finish on an object when the object is submerged in a tank bath or solution that contains the conversion coatings. Conversion coatings for the purposes of this rule include coatings composed of chromium, as well as the other plating and polishing metal HAP, where no electrical current is used.

Cyanide plating means plating processes performed in tanks that use cyanide as a major bath ingredient and that operate at pH of 12 or more, and use or emit any of the plating and polishing metal HAP, as defined in this section. Electroplating and electroforming are performed with or without cyanide. The cyanide in the bath works to dissolve the HAP metal added as a cyanide compound (e.g., cadmium cyanide) and creates free cyanide in solution, which helps to corrode the anode. These tanks are self-regulating to a pH of 12 due to the caustic nature of the cyanide bath chemistry. The cyanide in the bath is a major bath constituent and not an additive; however, the self-regulating chemistry of the bath causes the bath to act as if wetting agents/fume suppressants are being used and to ensure an optimum plating process. All cyanide plating baths at pH greater than or equal to 12 have cyanide-metal complexes in solution. The metal HAP to be plated is not emitted because it is either bound in the metal-cyanide complex or reduced at the cathode to elemental metal, and plated onto the immersed parts. Cyanide baths are not intentionally operated at pH less 12 since unfavorable plating conditions would occur in the tank, among other negative effects.

Deviation means any instance in which an affected source or an owner or operator of such an affected source:

(1) Fails to meet any requirement or obligation established by this rule including, but not limited to, any equipment standard (including emissions and operating limits), management practice, or operation and maintenance requirement;

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

(3) Fails to meet any equipment standard (including emission and operating limits), management standard, or operation and maintenance requirement in this rule during startup, shutdown, or malfunction.

Dry mechanical polishing means a process used for removing defects from and smoothing the surface of finished metals and formed products after plating or thermal spraying with any of the plating and polishing metal HAP, as defined in this section, using automatic or manually-operated machines that have hard-faced abrasive wheels or belts and where no liquids or fluids are used to trap the removed metal particles. The affected process does not include polishing with use of pastes, liquids, lubricants, or any other added materials.

Electroforming means an electrolytic process using or emitting any of the plating and polishing metal HAP, as defined in this section, that is used for fabricating metal parts. This process is essentially the same as electroplating except that the plated substrate (mandrel) is removed, leaving only the metal plate. In electroforming, the metal plate is self-supporting and generally thicker than in electroplating.

Electroless plating means a non-electrolytic process that uses or emits any of the plating and polishing metal HAP, as defined in this section, in which metallic ions in a plating bath or solution are reduced to form a metal coating at the surface of a catalytic substrate without the use of external electrical energy. Electroless plating is also called non-electrolytic plating. Examples include, but are not limited to, chromate conversion coating, nickel acetate sealing, sodium dichromate sealing, and manganese phosphate coating.

Electrolytic plating processes means electroplating and electroforming that use or emit any of the plating and polishing metal HAP, as defined in this section, where metallic ions in a plating bath or solution are reduced to form a metal coating on the surface of parts and products using electrical energy.

Electroplating means an electrolytic process that uses or emits any of the plating and polishing metal HAP, as defined in this section, in which metal ions in solution are reduced onto the surface of the work piece (the cathode) via an electrical current. The metal ions in the solution are usually replenished by the dissolution of metal from solid metal anodes fabricated of the same metal being plated, or by direct replenishment of the solution with metal salts or oxides; electroplating is also called electrolytic plating.

Electropolishing means an electrolytic process performed in a tank after plating that uses or emits any of the plating and polishing metal HAP, as defined in this section, in which a work piece is attached to an anode immersed in a bath, and the metal substrate is dissolved electrolytically, thereby removing the surface contaminant; electropolishing is also called electrolytic polishing. For the purposes of this subpart, electropolishing does not include bench-scale operations.

Fabric filter means a type of control device used for collecting PM by filtering a process exhaust stream through a filter or filter media. A fabric filter is also known as a baghouse.

Filters, for the purposes of this part, include cartridge, fabric, or HEPA filters, as defined in this section.

Flash electroplating means an electrolytic process performed in a tank that uses or emits any of the plating and polishing metal HAP, as defined in this section, and that is used no more than 3 cumulative minutes per hour or no more than 1 cumulative hour per day.

General Provisions of this part (40 CFR part 63, subpart A) means the section of the Code of Federal Regulations (CFR) that addresses air pollution rules that apply to all HAP sources addressed in part 63, which includes the National Emission Standards for Hazardous Air Pollutants (NESHAP).

HAP means hazardous air pollutant as defined from the list of 188 chemicals and compounds specified in the CAA Amendments of 1990; HAP are also called “air toxics.” The five plating and polishing metal HAP, as defined in this section, are on this list of 188 chemicals.

High efficiency particulate air (HEPA) filter means a type of control device that uses a filter composed of a mat of randomly arranged fibers and is designed to remove at least 99.97 percent of airborne particles that are 0.3 micrometers or larger in diameter.

Maintenance is any process at a plating and polishing facility that is performed to keep the process equipment or the facility operating properly and is not performed on items to be sold as products.

Major facility for HAP is any facility that emits greater than 10 tpy of any HAP, or that emits a combined total of all HAP of over 25 tpy, where the HAP used to determine the total facility emissions are not restricted to only plating and polishing metal HAP or from only plating and polishing operations.

Mesh pad mist eliminator means a type of control device, consisting of layers of interlocked filaments densely packed between two supporting grids that remove liquid droplets and PM from the gas stream through inertial impaction and direct interception.

Metal coating operation means any process performed either in a tank that contains liquids or as part of a thermal spraying operation, that applies one or more plating and polishing metal HAP, as defined in this section, to the surface of parts and products used in manufacturing. These processes include but are not limited to: non-chromium electroplating; electroforming; electropolishing; non-electrolytic metal coating processes, such as chromate

conversion coating, electroless nickel plating, nickel acetate sealing, sodium dichromate sealing, and manganese phosphate coating; and thermal or flame spraying.

Metal HAP content of material used in plating and polishing is the HAP content as determined from an analysis or engineering estimate of the HAP contents of the tank bath or solution, in the case of plating, metal coating, or electropolishing; or the HAP content of the metal coating being applied in the case of thermal spraying. Safety data sheet (SDS) information may be used in lieu of testing or engineering estimates but is not required to be used.

New source means any affected source for which you commenced construction or reconstruction after March 14, 2008.

Non-cyanide electrolytic plating and electropolishing processes means electroplating, electroforming, and electropolishing that uses or emits any of the plating and polishing metal HAP, as defined in this section, performed without cyanide in the tank. These processes do not use cyanide in the tank and operate at pH values less than 12. These processes use electricity and add or remove metals such as metal HAP from parts and products used in manufacturing. Both electroplating and electroforming can be performed with cyanide as well.

Non-electrolytic plating means a process that uses or emits any of the plating and polishing metal HAP, as defined in this section, in which metallic ions in a plating bath or solution are reduced to form a metal coating at the surface of a catalytic substrate without the use of external electrical energy. Non-electrolytic plating is also called electroless plating. Examples include chromate conversion coating, nickel acetate sealing, electroless nickel plating, sodium dichromate sealing, and manganese phosphate coating.

Packed-bed scrubber means a type of control device that includes a single or double packed bed that contains packing media on which PM and droplets impinge and are removed from the gas stream. The packed-bed section of the scrubber is followed by a mist eliminator to remove any water entrained from the packed-bed section.

Plating and polishing facility means a facility engaged in one or more of the following processes that uses or emits any of the plating and polishing metal HAP, as defined in this section: electroplating processes other than chromium electroplating (*i.e.,* non-chromium electroplating); electroless plating; other non-electrolytic metal coating processes performed in a tank, such as chromate conversion coating, nickel acetate sealing, sodium dichromate sealing, and manganese phosphate coating; thermal spraying; and the dry mechanical polishing of finished metals and formed products after plating or thermal spraying. Plating is performed in a tank or thermally sprayed so that a metal coating is irreversibly applied to an object. Plating and polishing does not include any bench-scale processes.

Plating and polishing metal HAP means any compound of any of the following metals: cadmium, chromium, lead, manganese, and nickel, or any of these metals in the elemental form, with the exception of lead. Any material that does not contain cadmium, chromium, lead, or nickel in amounts greater than or equal to 0.1 percent by weight (as the metal), and does not contain manganese in amounts greater than or equal to 1.0 percent by weight (as the metal), as reported on the Material Safety Data Sheet for the material, is not considered to be a plating and polishing metal HAP.

Plating and polishing process tanks means any tank in which a process is performed at an affected plating and polishing facility that uses or has the potential to emit any of the plating and polishing metal HAP, as defined in this section. The processes performed in plating and polishing tanks include the following: electroplating processes other than chromium electroplating (*i.e.,* non-chromium electroplating) performed in a tank; electroless plating; and non-electrolytic metal coating processes, such as chromate conversion coating, nickel acetate sealing, sodium dichromate sealing, and manganese phosphate coating; and electropolishing. This term does not include tanks containing solutions that are used to clean, rinse or wash parts prior to placing the parts in a plating and polishing process tank, or subsequent to removing the parts from a plating and polishing process tank. This term also does not include any bench-scale operations.

PM means solid or particulate matter that is emitted into the air.

Repair means any process used to return a finished object or tool back to its original function or shape.

Research and development process unit means any process unit that is used for conducting research and development for new processes and products and is not used to manufacture products for commercial sale, except in a *de minimis* manner.

Short-term plating means an electroplating process that uses or emits any of the plating and polishing metal HAP, as defined in this section, and that is used no more than 3 cumulative minutes per hour or 1 hour cumulative per day.

Startup of the tank bath is when the components or relative proportions of the various components in the bath have been altered from the most recent operating period. Startup of the bath does not include events where only the tank's heating or agitation and other mechanical operations are turned back on after being turned off for a period of time.

Tank cover for batch process units means a solid structure made of an impervious material that is designed to cover the entire open surface of a tank or process unit that is used for plating or other metal coating processes.

Tank cover for continuous process units, means a solid structure or combination of structures, made of an impervious material that is designed to cover at least 75 percent of the open surface of the tank or process unit that is used for continuous plating or other continuous metal coating processes.

Temporary thermal spraying means a thermal spraying operation that uses or emits any of the plating and polishing metal HAP, as defined in this section, and that lasts no more than 1 hour in duration during any one day and is conducted in situ. Thermal spraying that is conducted in a dedicated thermal spray booth or structure is not considered to be temporary thermal spraying.

Thermal spraying (also referred to as metal spraying or flame spraying) is a process that uses or emits any of the plating and polishing metal HAP, as defined in this section, in which a metallic coating is applied by projecting heated, molten, or semi-molten metal particles onto a substrate. Commonly-used thermal spraying methods include high velocity oxy-fuel (HVOF) spraying, flame spraying, electric arc spraying, plasma arc spraying, and detonation gun spraying. This operation does not include spray painting at ambient temperatures.

Water curtain means a type of control device that draws the exhaust stream through a continuous curtain of moving water to scrub out suspended PM.

Wetting agent/fume suppressant means any chemical agent that reduces or suppresses fumes or mists from a plating and polishing tank by reducing the surface tension of the tank bath.

[73 FR 37741, July 1, 2008, as amended at 76 FR 57921, Sept. 19, 2011]

§ 63.11512 Who implements and enforces this subpart?

(a) This subpart can be implemented and enforced by EPA or a delegated authority such as your State, local, or tribal agency. If the EPA Administrator has delegated authority to your State, local, or tribal agency, then that agency, in addition to EPA, has the authority to implement and enforce this subpart. You should contact your EPA Regional Office to find out if implementation and enforcement of this subpart is delegated to your State, local, or tribal agency.

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

(c) The authorities that cannot be delegated to State, local, or tribal agencies are specified in paragraphs (c)(1) through (5) of this section.

(1) Approval of an alternative non-opacity emissions standard under 40 CFR 63.6(g), of the General Provisions of this part.

(2) Approval of an alternative opacity emissions standard under § 63.6(h)(9), of the General Provisions of this part.

(3) Approval of a major change to test methods under § 63.7(e)(2)(ii) and (f), of the General Provisions of this part. A “major change to test method” is defined in § 63.90.

(4) Approval of a major change to monitoring under § 63.8(f), of the General Provisions of this part. A “major change to monitoring” is defined in § 63.90.

(5) Approval of a major change to recordkeeping and reporting under § 63.10(f), of the General Provisions of this part. A “major change to recordkeeping/reporting” is defined in § 63.90.

§ 63.11513 [Reserved]

Table 1 to Subpart WWWWWW of Part 63—Applicability of General Provisions to Plating and Polishing Area Sources

As required in § 63.11510, “What General Provisions apply to this subpart?”, you must meet each requirement in the following table that applies to you.

Citation	Subject
63.1[1]	Applicability.
63.2	Definitions.
63.3	Units and abbreviations.
63.4	Prohibited activities.
63.6(a), (b)(1)-(b)(5), (c)(1), (c)(2), (c)(5), and (j)	Compliance with standards and maintenance requirements.
63.10(a), (b)(1), (b)(2)(i)-(iii), (xiv), (b)(3), (d)(1), (f)	Recordkeeping and reporting.
63.12	State authority and delegations.
63.13	Addresses of State air pollution control agencies and EPA regional offices.
63.14	Incorporation by reference.
63.15	Availability of information and confidentiality.

[1] Section 63.11505(e), “What parts of my plant does this subpart cover?”, exempts affected sources from the obligation to obtain title V operating permits.

[73 FR 37741, July 1, 2008, as amended at 76 FR 57922, Sept. 19, 2011]

Indiana Department of Environmental Management
Office of Air Quality

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

Source Description and Location

Source Name:	Imagineering Enterprises, Inc.
Source Location:	3722 Foundation Court, South Bend, IN 46628
County:	St. Joseph
SIC Code:	3479 (Metal Coating and Allied Services)
Operation Permit No.:	T141-29765-00574
Operation Permit Issuance Date:	January 13, 2011
Significant Source Modification No.:	141-33398-00574
Significant Permit Modification No.:	141-33450-00574
Permit Reviewer:	Brandon Miller

Existing Approvals

The source was issued Part 70 Operating Permit No. 141-29765-00574 on January 13, 2011. The source has since received the following approvals:

Permit Type	Permit Number	Issuance Date
First Administrative Amendment	141-30369-00574	March 30, 2011
Temporary Operation	141-30728-00574	August 5, 2011
First Significant Permit Modification	141-30756-00574	January 30, 2012
Second Administrative Amendment	141-31597-00574	March 30, 2012

County Attainment Status

The source is located in St. Joseph County.

Pollutant	Designation
SO_2	Better than national standards.
CO	Unclassifiable or attainment effective November 15, 1990.
O_3	Unclassifiable or attainment effective July 20, 2012, for the 2008 8-hour ozone standard.[1]
$PM_{2.5}$	Unclassifiable or attainment effective April 5, 2005, for the annual $PM_{2.5}$ standard.
$PM_{2.5}$	Unclassifiable or attainment effective December 13, 2009, for the 24-hour $PM_{2.5}$ standard.
PM_{10}	Unclassifiable effective November 15, 1990.
NO_2	Cannot be classified or better than national standards.
Pb	Unclassifiable or attainment effective December 31, 2011.

[1]Attainment effective October 18, 2000, for the 1-hour ozone standard for the South Bend-Elkhart area, including St. Joseph County, and is a maintenance area for the 1-hour ozone National Ambient Air Quality Standards (NAAQS) for purposes of 40 CFR 52 Subpart X. The 1-hour standard was revoked effective June 15, 2005.

(a) Ozone Standards

Volatile organic compounds (VOC) and Nitrogen Oxides (NO_x) are regulated under the Clean Air Act (CAA) for the purposes of attaining and maintaining the National Ambient Air Quality Standards (NAAQS) for ozone. Therefore, VOC and NO_x emissions are

considered when evaluating the rule applicability relating to ozone. St. Joseph County has been designated as attainment or unclassifiable for ozone. Therefore, VOC and NO_x emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

(b) $PM_{2.5}$
St. Joseph County has been classified as attainment for $PM_{2.5}$. On May 8, 2008, U.S. EPA promulgated the requirements for Prevention of Significant Deterioration (PSD) for $PM_{2.5}$ emissions. These rules became effective on July 15, 2008. On May 4, 2011, the air pollution control board issued an emergency rule establishing the direct $PM_{2.5}$ significant level at ten (10) tons per year. This rule became effective June 28, 2011. Therefore, direct $PM_{2.5}$, SO_2, and NOx emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

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

Fugitive Emissions

Since this type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-2, 326 IAC 2-3, or 326 IAC 2-7, and there is no applicable New Source Performance Standard that was in effect on August 7, 1980, fugitive emissions are not counted toward the determination of PSD, Emission Offset, and Part 70 Permit applicability.

Source Status

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

Pollutant	**Emissions** (ton/yr)
PM	83.97
PM_{10}	84.37
$PM_{2.5}$	84.37
SO_2	0.00
VOC	204.34
CO	5.30
NO_X	12.03
GHGs as CO_2e	not reported
HAPs	
Chrome	9.80
Toluene	9.80
Hexane	0.12
Total	**less than 25**

(a) This existing source is not a major stationary source, under PSD (326 IAC 2-2), because no regulated pollutant, excluding GHGs, is emitted at a rate of two hundred fifty (250) tons per year or more, emissions of GHGs are less than one hundred thousand (100,000) tons of CO_2 equivalent emissions (CO_2e) per year, and it is not one of the twenty-eight (28) listed source categories, as specified in 326 IAC 2-2-1(ff)(1).

(b) This existing source is not a major source of HAPs, as defined in 40 CFR 63.41, because the Permittee has accepted limits on HAPs emissions to less than ten (10) tons per year

for any single HAP and less than twenty-five (25) tons per year of a combination of HAPs. Therefore, this source is an area source under Section 112 of the Clean Air Act (CAA).

(c) These emissions are based upon the technical support document (TSD) from the significant permit modification No. 141-30756-00574.

Description of Proposed Modification

The Office of Air Quality (OAQ) has reviewed a modification application, submitted by Imagineering Enterprises, Inc. on July 8, 2013, relating to the construction and operation of six (6) new spray booths, a new tank and scrubber to the existing zinc/phosphate line, a new manganese dipping line consisting of 22 tanks, a new air makeup unit, a new blasting room and six (6) new blasting cabinets, a new cleaning operation involving seven (7) new tanks, and four (4) electric ovens. In addition, the number of tanks has increased from 4 to 10 in the Passivation Operation and from 3 to 9 tanks in the Etching Operation. On January 24, 2014, the source requested that a new boiler be added to the source. The following is a list of the proposed emission units and pollution control devices:

(a) One (1) new blasting operation consisting of the following:

(1) One (1) blasting room, identified as BR, approved for construction in 2014, using glass, plastic bead, or aluminum oxide media, with a maximum abrasive usage of five hundred (500) pounds per hour and five hundred (500) pounds of metal per hour, for a combined process weight rate of 0.5 tons per hour, exhausting to a baghouse as control which exhausts indoors. The baghouse has a 1,200 cubic feet per minute capacity.

(2) Three (3) small cabinet blasters, identified as SCB1, SCB2, and SCB3, approved for construction in 2014, using glass, plastic bead, or aluminum oxide media, with a maximum abrasive usage of ten (10) pounds per hour, each, and ninety (90) pounds of metal per hour, each, for a combined process weight rate of 100 pounds per hour, each, exhausting to a dust collector, each, as control which exhaust indoors. The dust collectors have a 800 cubic feet per minute capacity.

(3) One (1) large cabinet blaster, identified as LCB1, approved for construction in 2014, using glass, plastic bead, or aluminum oxide media, with a maximum abrasive usage of twenty-five (25) pounds per hour and seventy-five (75) pounds of metal per hour, for a combined process weight rate of 100 pounds per hour, exhausting to a dust collector as control which exhausts indoors. The dust collector has a 850 cubic feet per minute capacity.

(4) One (1) tumble blaster, identified as TB1, approved for construction in 2014, using aluminum oxide media, with a maximum abrasive usage of ten (10) pounds per hour and ninety (90) pounds of metal per hour, for a combined process weight rate of 100 pounds per hour, exhausting to a dust collector as control which exhausts indoors. The dust collector has a 800 cubic feet per minute capacity.

(5) One (1) wet blaster, identified as WB1, approved for construction in 2014, using vermiculite media, operating wet when in use, with a maximum abrasive usage of ten (10) pounds per hour and ninety (90) pounds of metal, for a combined process weight rate of 100 pounds per hour, exhausting to a baghouse as control which exhaust indoors.

(b) One (1) spray booth, identified as EU-6, approved for construction in 2014, utilizing a high volume, low pressure (HVLP) applicator, with a maximum capacity of 80 metal units per hour, using dry filters to control particulate overspray, and exhausting to stack EU6S.

The spray booth EU-6 is considered a new affected source under 40 CFR 63, Subpart HHHHHH.

(c) One (1) spray booth, identified as EU-7, approved for construction in 2014, utilizing a high volume, low pressure (HVLP) applicator, with a maximum capacity of 80 metal units per hour, using dry filters to control particulate overspray, and exhausting to stack EU7S.

The spray booth EU-7 is considered a new affected source under 40 CFR 63, Subpart HHHHHH.

(d) One (1) spray booth, identified as EU-8, approved for construction in 2014, utilizing a high volume, low pressure (HVLP) applicator, with a maximum capacity of 80 metal units per hour, using dry filters to control particulate overspray, and exhausting to stack EU8S.

The spray booth EU-8 is considered a new affected source under 40 CFR 63, Subpart HHHHHH.

(e) One (1) spray booth, identified as EU-9, approved for construction in 2014, utilizing a high volume, low pressure (HVLP) applicator, with a maximum capacity of 80 metal units per hour, using dry filters to control particulate overspray, and exhausting to stack EU9S.

The spray booth EU-9 is considered a new affected source under 40 CFR 63, Subpart HHHHHH.

(f) One (1) spray booth, identified as EU-10, approved for construction in 2014, utilizing a high volume, low pressure (HVLP) applicator, with a maximum capacity of 80 metal units per hour, using dry filters to control particulate overspray, and exhausting to stack EU10S.

The spray booth EU-10 is considered a new affected source under 40 CFR 63, Subpart HHHHHH.

(g) One (1) spray booth, identified as EU-11, approved for construction in 2014, utilizing a high volume, low pressure (HVLP) applicator, with a maximum capacity of 80 metal units per hour, using dry filters to control particulate overspray, and exhausting to stack EU11S.

The spray booth EU-11 is considered a new affected source under 40 CFR 63, Subpart HHHHHH.

(h) One (1) parts cleaning operation, consisting of six (6) fifteen (15) gallon tubs, identified as C1 through C6, and one (1) one thousand seven hundred (1,700) gallon tank, identified as C7, approved for construction in 2014, utilizing a diluted hydrofluoric and nitric acid solution and rinse, exhausting indoors.

The source is also adding or modifying the following insignificant activities:

(i) One (1) natural gas-fired air makeup unit, identified as AM-1, with a 8.8 MMBtu/hr heat input rating, approved for construction in 2014, exhausting indoors. [326 IAC 6.5]

(j) One (1) phosphate line, consisting of thirteen (13) tanks, constructed in 2012 and approved for construction in 2014, with varying chemicals used in each tank, using a scrubber as a voluntary control device.

Note: There are twelve (12) existing tanks that were constructed in 2012 and one (1) new tank approved for construction in 2014. Two (2) of the existing twelve (12) tanks actually have emissions. In the previous permit it was indicated that this was a non-emitting line which was inaccurate.

(k) One (1) manganese dipping line, consisting of twenty-two (22) tanks, approved for construction in 2014, with varying chemicals used in each tank, exhausting indoors.

The manganese dipping line is considered a new affected source under 40 CFR 63, Subpart WWWWWW.

(l) Four (4) electric ovens approved for construction in 2014.

(m) One (1) natural gas-fired boiler, identified as B-10, with a 8.65 MMBtu/hr heat input rating, approved for construction in 2014, exhausting to stack B-1. [326 IAC 6.5]

The source never constructed abrasive blasting operation AB-1 or powder coating operation PP-1 in 2011. The source did not commence construction within eighteen (18) months after receipt of the approval and construction has been suspended for a continuous period of more than one (1) year. The source has requested approval to construct the abrasive blasting operation AB-1 and powder coating operation PP-1 in 2014. The abrasive blasting operation AB-1 and powder coating operation PP-1 will be approved for construction in 2014.

The source has requested changes to the description of the existing passivation and etching operations. The descriptive information in the permit only listed the tanks with emissions and not the other tanks in the total operation. There is no change to the PTE of the source as a result of this change.

The source has requested changes to the CARC line cure ovens, identified as CO-1 through CO-3. The source only constructed CO-1 and CO-2. Cure oven CO-3 will not be constructed and will be removed from the permit and calculations. The size of the cure ovens is also smaller than what was listed. The cure ovens were listed as having a heat input capacity of 3.50 MMBtu/hr, each. The constructed ovens have a heat input capacity of 3.0 MMBtu/hr, each. Two insignificant air makeup units were also constructed in 2011. The description of the units is listed as follows:

(n) Two (2) natural gas-fired air makeup units, identified as AM-2 and AM-3, with a 4.0 MMBtu/hr heat input rating, each, constructed in 2011 and exhausting indoors. [326 IAC 6.5]

Enforcement Issues

There are no pending enforcement actions related to this modification.

Emission Calculations

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

Permit Level Determination – Part 70

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

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

PTE Change of the Modified Process (Phosphate Dipping Line)			
Pollutant	**PTE Before Modification** (ton/yr)[1]	**PTE After Modification** (ton/yr)	**Increase from Modification** (ton/yr)
PM	0	5.14E-03	5.14E-03
PM_{10}	0	5.14E-03	5.14E-03
$PM_{2.5}$	0	5.14E-03	5.14E-03
SO_2	0	0	0
VOC	0	5.12E-02	5.12E-02
CO	0	0	0
NO_X	0	0	0
HAPs	0	5.64E-02	5.64E-2

[1] The Phosphate line was considered non-emitting previously.

Note: There are no changes in the PTE in the Passivation and Etching Operations due to increase in the number of tanks since the maximum capacities of the operation did not change.

Total PTE Increase due to the Modification			
Pollutant	**PTE New Emission Units** (ton/yr)	**Net Increase to PTE of Modified Emission Units** (ton/yr)	**Total PTE for New and Modified Units** (ton/yr)
PM	105.34	5.14E-03	105.35
PM_{10}	75.27	5.14E-03	75.27
$PM_{2.5}$	75.27	5.14E-03	75.27
SO_2	0.07	0	0.07
VOC	51.06	5.12E-02	51.11
CO	9.36	0	9.36
NO_X	14.26	0	14.26
HAPs	80.44	5.64E-02	80.49

(a) Significant Source Modification - Approval to Construct

This source modification is subject to 326 IAC 2-7-10.5(g)(4) because the potential to emit PM, PM10, PM2.5, and VOC is greater than twenty-five (25) tons per year before control.

(b) Significant Permit Modification - Approval to Operate

Additionally, the modification will be incorporated into the Part 70 Operating Permit through a significant permit modification issued pursuant to 326 IAC 2-7-12(d)(1), because the modification requires a change to the HAP emission limitation to render 326 IAC 2-4.1 not applicable and the incorporation of new applicable NESHAPs. This is also a change to a Title I provision of the CAA.

Permit Level Determination – PSD

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

	Potential to Emit (ton/yr)								
Process / Emission Unit	**PM**	**PM_{10}**	**$PM_{2.5}$ ***	**SO_2**	**VOC**	**CO**	**NO_X**	**GHGs**	**Total HAPs**
Blasting Room and 6 Cabinets (BR, SCB1, SCB2, SCB3, LCB1, TB1, and WB1)	102.36	71.65	71.65	-	-	-	-	-	-
Paint Booths (EU-6 through EU-11)	1.04	1.04	1.04	-	24.90	-	-	-	72.85
Cleaning operation (C1 through C7)	-	-	-	-	25.53	-	3.12	-	5.47
Air Makeup Units (AM-1 through AM-3) and Boiler B-10	0.21	0.85	0.85	0.07	0.61	9.36	11.15	13,458	0.07
Dipping Lines	1.73	1.73	1.73	-	0.01	-	-	-	1.92
Total for Modification	105.34	75.27	75.27	0.07	51.11	9.36	14.26	13,458	80.49
PSD Major Source Thresholds	250	250	250	250	250	250	250	100,000 CO_2e	NA

*$PM_{2.5}$ listed is direct $PM_{2.5}$.

This modification to an existing minor stationary source is not major because the emissions increase is being incorporated into the existing sourcewide emissions which the total is still less than the PSD major source thresholds. Therefore, pursuant to 326 IAC 2-2, the PSD requirements do not apply.

PTE of the Entire Source After Issuance of the Modification

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

Process/ Emission Unit	Potential To Emit of the Entire Source After Issuance of Modification (tons/year)									
	PM	PM10*	PM2.5*	SO2	NOx	VOC	CO	GHGs as CO2e**	Total HAPs	Worst Single HAP
Passivation and Etching Tanks	1.84	1.84	1.84	0	5.73	1.79	0	0	0	0
CARC Coating Line	5.97	5.97	5.97	0	0	202.25	0	0	<13.5[1]	<9.9 Chrome/ Toluene[2]
Blasting (AB-1)	42.57	42.57	42.57	0	0	0	0	0	0	0
Powder Coating (PP-1)	3.75E-03	3.75E-03	3.75E-03	0	0	0	0	0	0	0
Cure Ovens	0.05	0.19	0.19	0.02	2.50	0.14	2.10	6,945	0.05	0.05 Hexane
Boiler (B-1)	0.03	0.12	0.12	0.01	1.52	0.08	1.28		0.03	0.03 Hexane
Space Heaters and Burn Off Oven	0.03	0.13	0.13	0.01	1.73	0.09	1.45		0.03	0.03 Hexane
Blasting Room and Cabinets	102.36	71.65	71.65	0	0	0	0	0	0	0
Paint Booths (EU-6 to EU-9)	1.04	1.04	1.04	0	0	16.43[3]	0	0	<13.5[1]	<9.9 Ethyl Benzene/Toluene/Xylene[2]
Cleaning Operations	0	0	0	0	3.12	25.53	0	0	5.47	5.47 HF
Air Makeup (AM-1 through AM-3) and Boiler B-10	0.21	0.85	0.85	0.07	11.15	0.61	9.36	13,458	0.20	0.20 Hexane
Dipping Lines	1.73	1.73	1.73	0	0	0.01	0	0	1.92	1.70 Manganese
Chem Line	0	0	0	0	0	0	0	0	3.33	2.33 Dipropylene Glycol monomethyl ether
Total PTE of Entire Source	**155.84**	**126.09**	**126.09**	**0.10**	**25.75**	**246.94**	**14.20**	**20,403**	**24.53**	**<10**
Title V Major Source Thresholds	NA	100	100	100	100	100	100	100,000	25	10
PSD Major Source Thresholds	250	250	250	250	250	250	250	100,000	NA	NA

*Under the Part 70 Permit program (40 CFR 70), PM10 and PM2.5, not particulate matter (PM), are each considered as a "regulated air pollutant".
**The 100,000 CO2e threshold represents the Title V and PSD subject to regulation thresholds for GHGs in order to determine whether a source's emissions are a regulated NSR pollutant under Title V and PSD.
[1]Combined total limit for CARC line and paint booths. Limited to render 326 IAC 2-4.1 (Major Sources of HAPs) not applicable.
[2]Limited to render 326 IAC 2-4.1 (Major Sources of HAPs) not applicable. CARC line and paint booths have a combined limit for Toluene and Ethyl Benzene.
[3]Limited to render 326 IAC 2-2 (PSD) and 326 IAC 8 (Volatile Organic Compounds) not applicable.

Federal Rule Applicability Determination

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

NSPS:

(a) The six (6) spray booths identified as, EU-6 through EU-11 are not subject to the requirements of the New Source Performance Standard for Surface Coating of Metal Furniture, 40 CFR 60.310, Subpart EE, because the source does not apply a coating to metal furniture.

(b) The six (6) spray booths identified as, EU-6 through EU-11, are not subject to the requirements of the New Source Performance Standard for Automobile and Light Duty Truck Surface Coating Operations, 40 CFR 60.390, Subpart MM, because the source in not an automobile or light-duty truck assembly plant.

(c) There are no New Source Performance Standards (NSPS)(326 IAC 12 and 40 CFR Part 60) applicable to this proposed.

NESHAP:

(d) The phosphate and manganese dipping lines are not subject to the requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAPs) for Chromium Emissions from Hard and Decorative Chromium Electroplating and Chromium Anodizing Tanks, 40 CFR 63, Subpart N, referenced as 326 IAC 20-8, because they are not electroplating or anodizing chromium.

(e) The cleaning operation is not subject to the requirements of the NESHAPs for Halogenated Solvent Cleaning, 40 CFR 63, Subpart T, referenced as 326 IAC 20-6, because it does not use a halogenated HAP solvent.

(f) The six (6) spray booths, identified as EU-6 through EU-11, are not subject to the requirements of the NESHAPs for Surface Coating of Miscellaneous Metal Parts and Products, 40 CFR 63, Subpart MMMM, referenced as 326 IAC 20-80, because the source is not a major source of HAPs.

(g) The six (6) spray booths, identified as EU-6 through EU-11, are not subject to the requirements of the NESHAPs for Surface Coating of Large Appliances, 40 CFR 63, Subpart NNNN, referenced as 326 IAC 20-63, because the source is not a major source of HAPs.

(h) The six (6) spray booths, identified as EU-6 through EU-11, are not subject to the requirements of the NESHAPs for Surface Coating of Plastic Parts and Products, 40 CFR 63, Subpart PPPP, referenced as 326 IAC 20-81, because the source is not a major source of HAPs.

(i) The six (6) spray booths, identified as EU-6 through EU-11, are not subject to the requirements of the NESHAPs for Surface Coating of Metal Furniture, 40 CFR 63, Subpart RRRR, referenced as 326 IAC 20-78, because the source is not a major source of HAPs.

(j) The six (6) spray booths, identified as EU-6 through EU-11, are not subject to the requirements of the NESHAPs for Surface Coating of Metal Coil, 40 CFR 63, Subpart SSSS, referenced as 326 IAC 20-64, because the source is not a major source of HAPs.

(k) The air makeup units, identified as AM-1 through AM-3, and boiler B-10are not subject to the requirements of the NESHAPs for Industrial, Commercial, and Institutional Boilers and Process Heaters, 40 CFR 63, Subpart DDDDD, referenced as 326 IAC 20-95, because the source is not a major source of HAPs.

(l) The existing CARC line is still subject to the requirements of the NESHAP for Paint Stripping and Miscellaneous Surface Coating Operations at Area Sources, 40 CFR 63, Subpart HHHHHH because it performs spray application of coatings that contain the target HAP (compounds of chromium, lead, manganese, or cadmium).

The six (6) spray booths, identified as EU-6 through EU-11, are subject to the requirements of the NESHAP for Paint Stripping and Miscellaneous Surface Coating Operations at Area Sources, 40 CFR 63, Subpart HHHHHH, because the spray booths perform spray application of coatings that contain the target HAP (compounds of chromium, lead, manganese, or cadmium) to a metal substrate on a part or product. The units subject to this rule include the following:

(1) One (1) spray booth, identified as EU-6, approved for construction in 2014, utilizing a high volume, low pressure (HVLP) applicator, with a maximum capacity of 80 metal units per hour, using dry filters to control particulate overspray, and exhausting to stack EU6S.

The spray booth EU-6 is considered a new affected source under 40 CFR 63, Subpart HHHHHH.

(2) One (1) spray booth, identified as EU-7, approved for construction in 2014, utilizing a high volume, low pressure (HVLP) applicator, with a maximum capacity of 80 metal units per hour, using dry filters to control particulate overspray, and exhausting to stack EU7S.

The spray booth EU-7 is considered a new affected source under 40 CFR 63, Subpart HHHHHH.

(3) One (1) spray booth, identified as EU-8, approved for construction in 2014, utilizing a high volume, low pressure (HVLP) applicator, with a maximum capacity of 80 metal units per hour, using dry filters to control particulate overspray, and exhausting to stack EU8S.

The spray booth EU-8 is considered a new affected source under 40 CFR 63, Subpart HHHHHH.

(4) One (1) spray booth, identified as EU-9, approved for construction in 2014, utilizing a high volume, low pressure (HVLP) applicator, with a maximum capacity of 80 metal units per hour, using dry filters to control particulate overspray, and exhausting to stack EU9S.

The spray booth EU-9 is considered a new affected source under 40 CFR 63, Subpart HHHHHH.

(5) One (1) spray booth, identified as EU-10, approved for construction in 2014, utilizing a high volume, low pressure (HVLP) applicator, with a maximum capacity of 80 metal units per hour, using dry filters to control particulate overspray, and exhausting to stack EU10S.

The spray booth EU-10 is considered a new affected source under 40 CFR 63, Subpart HHHHHH.

(6) One (1) spray booth, identified as EU-11, approved for construction in 2014, utilizing a high volume, low pressure (HVLP) applicator, with a maximum capacity of 80 metal units per hour, using dry filters to control particulate overspray, and exhausting to stack EU11S.

The spray booth EU-11 is considered a new affected source under 40 CFR 63, Subpart HHHHHH.

Nonapplicable portions of the NESHAP will not be included in the permit. The (6) spray booths are subject to the following portions of Subpart HHHHHH.

(1) 40 CFR 63.11169(c)
(2) 40 CFR 63.11170(a)(3), (b)
(3) 40 CFR 63.11171(a), (b), (c)
(4) 40 CFR 63.11172(a)(2)
(5) 40 CFR 63.11173(f),(g(1), (g)(3)
(6) 40 CFR 63.11174(a)
(7) 40 CFR 63.11175(a)
(8) 40 CFR 63.11176(a)
(9) 40 CFR 63.11177
(10) 40 CFR 63.11178
(11) 40 CFR 63.11179
(12) 40 CFR 63.11180
(13) Table 1

The provisions of 40 CFR 63, Subpart A - General Provisions, which are incorporated as 326 IAC 20-1-1, apply to the facilities described in this section except when otherwise specified in 40 CFR 63, Subpart HHHHHH.

(m) The natural gas-fired boiler, identified as B-10, is not subject to the requirements of the NESHAP for Industrial, Commercial, and Institutional Boilers for Area Sources, 40 CFR 63.11193, Subpart JJJJJJ, because the boiler is a gas-fired boiler which is not subject to subpart JJJJJJ as specified in 40 CFR 63.11195(e) and defined in 40 CFR 63.11237.

(n) The manganese dipping line is subject to the NESHAP for Area Source Standards for Plating and Polishing Operations, 40 CFR 63.11504, Subpart WWWWWW, because the source operates a plating or polishing facility that uses or has emissions of compounds of one or more plating and polishing metal HAP (cadmium, chromium, lead, manganese, and nickel).

The facilities subject to this rule include the following:

(1) One (1) manganese dipping line, consisting of twenty-two (22) tanks, approved for construction in 2014, with varying chemicals used in each tank, exhausting indoors.

Applicable portions of the NESHAP are the following:

(1) 40 CFR 63.11504
(2) 40 CFR 63.11505(a)(1) and (c)
(3) 40 CFR 63.11506(c)
(4) 40 CFR 63.11507(g)
(5) 40 CFR 63.11508
(6) 40 CFR 63.11509
(7) 40 CFR 63.11510
(8) 40 CFR 63.11511
(9) 40 CFR 63.11512
Table 1 to Subpart WWWWWW

This is a newly applicable requirement due to this modification.

The requirements of 40 CFR Part 63, Subpart A - General Provisions, which are incorporated as 326 IAC 20-1-1, apply to the affected units except as otherwise specified in 40 CFR 63, Subpart WWWWWW.

(o) The phosphate dipping line is not subject to Subpart WWWWWW because this subpart does not apply to any of the process units or operations that plate or polish using process materials that contain cadmium, chromium, lead or nickel in amounts less than 0.1 percent by weight, or that contain manganese in amounts less than 1.0 percent by weight.

(p) There are no other National Emission Standards for Hazardous Air Pollutants (NESHAPs) (326 IAC 14, 326 IAC 20 and 40 CFR Part 63) applicable to this proposed modification.

Compliance Assurance Monitoring:

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

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

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

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

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

CAM Applicability Analysis							
Emission Unit	**Control Device Used**	**Emission Limitation** (Y/N)	**Uncontrolled PTE** (ton/yr)	**Controlled PTE** (ton/yr)	**Part 70 Major Source Threshold** (ton/yr)	**CAM Applicable** (Y/N)	**Large Unit** (Y/N)
Blasting Room (BR) - PM	Baghouse	Y, 326 IAC 6-3-2	89.79	-	100	N	-
Blasting Room (BR) - PM10 and PM2.5	Baghouse	N	-	-	100	-	-
Small Cabinet Blaster (SCB1) - PM	Dust Collector	Y, 326 IAC 6-3-2	1.80	-	100	N	-
Small Cabinet Blaster (SCB1) - PM10 and PM2.5	Dust Collector	N	-	-	100	-	-
Small Cabinet Blaster (SCB2) - PM	Dust Collector	Y, 326 IAC 6-3-2	1.80	-	100	N	-
Small Cabinet Blaster (SCB2) - PM10 and PM2.5	Dust Collector	N	-	-	100	-	-
Small Cabinet Blaster (SCB3) - PM	Dust Collector	Y, 326 IAC 6-3-2	1.80	-	100	N	-
Small Cabinet Blaster (SCB3) - PM10 and PM2.5	Dust Collector	N	-	-	100	-	-
Large Cabinet Blaster (LCB1) - PM	Dust Collector	Y, 326 IAC 6-3-2	4.49	-	100	N	-
Large Cabinet Blaster (LCB1) - PM10 and PM2.5	Dust Collector	N	-	-	100	-	-
Wet Blaster (WB1) - PM	Dust Collector	Y, 326 IAC 6-3-2	0.9	-	100	N	-
Wet Blaster (WB1) -	Dust	N	-	-	100	-	-

CAM Applicability Analysis							
Emission Unit	**Control Device Used**	**Emission Limitation** (Y/N)	**Uncontrolled PTE** (ton/yr)	**Controlled PTE** (ton/yr)	**Part 70 Major Source Threshold** (ton/yr)	**CAM Applicable** (Y/N)	**Large Unit** (Y/N)
PM10 and PM2.5	Collector						
Tumble Blaster (TB1) - PM	Dust Collector	Y, 326 IAC 6-3-2	1.80	-	100	N	-
Tumble Blaster (TB1) - PM10 and PM2.5	Dust Collector	N	-	-	100	-	-
Paint Booth (EU-6 through EU-11) - PM, PM10, PM2.5	Dry Filter	N	-	-	100	-	-
Paint Booth (EU-6 through EU-11) - VOC	None	-	-	-	100	-	-
Paint Booth (EU-6 through Eu-11) - HAP	None	-	-	-	-	-	-
Cold Cleaner Washing Operation - VOC	None	-	-	-	100	-	-
Air Makeup Units (AM-1 through AM-3) - All Criteria Pollutants	None	-	-	-	100	-	-
Phosphate Dipping Line - All Criteria Pollutants	None	-	-	-	-	-	-
Manganese Dipping Line - All Criteria Pollutants	None	-	-	-	-	-	-
Manganese Dipping Line - HAPs	None	-	-	-	-	-	-
Boiler B-10 - All Criteria Pollutants	None	-	-	-	-	-	-

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

State Rule Applicability Determination

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

326 IAC 2-2 (PSD)
This modification to an existing PSD minor stationary source will not change the PSD minor status, because the potential to emit of all attainment regulated pollutants from the entire source will continue to be less than PSD major source threshold levels. Therefore, pursuant to 326 IAC 2-2, the PSD requirements do not apply.

In order to not be subject to the requirements of 326 IAC 2-2 (PSD), the source shall comply with the following:

(a) The VOC input, including coatings, dilution solvents, and cleaning solvents, to each of the six (6) spray booths, identified as EU-6, EU-7, EU-8, EU-9, EU-10, and EU-11, shall be less than fifteen (15.0) pounds per day, each, with compliance determined at the end of each day.

Note: This is a new requirement. This is a title I change.

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

326 IAC 2-4.1 (Major Sources of Hazardous Air Pollutants (HAP))
The input of the CARC coating line was limited in Significant Permit Modification No. 141-30756-00574 to less than ten (10) tons per year for a single HAP and less than twenty-five (25) tons per year for a combination of HAPs. The addition of the new emission units would increase the potential to emit of a single HAP to greater than ten (10) tons per year and to greater than twenty-five (25) tons per year for a combination of HAPs. Therefore the source has requested the limitation on the CARC line be amended as follows to include the six (6) spray booths:

(1) The total single HAP input to the CARC coating line and six (6) spray booths, identified as EU-6 through EU-11, shall not exceed nine and nine tenths (9.9) tons per twelve (12) consecutive month period with compliance determined at the end of each month.

Note: This is an exisiting limit that has been revised from not exceeding ten (10.0) tons per twelve (12) consecutive month period to not exceeding nine and nine tenths (9.9) tons per twelve consecutive month period. It has also been revised to include the six (6) new spray booths. This is a Title I change.

(2) The total input of any combination of HAPs to the CARC coating line and six (6) spray booths, identified as EU-6 through EU-11, shall not exceed thirteen and five tenths (13.5) tons per twelve (12) consecutive month period with compliance determined at the end of each month.

Note: This is an existing limit that has been revised from not exceeding twenty-five (25.0) tons per twelve (12) consecutive month period to not exceeding thirteen and five tenths (13.5) tons per twelve consecutive month period to accommodate for the additional HAPs emissions from the paint booths and other units covered in this modification. The limit has also been revised to include the six (6) new spray booths. This is a Title I change.

Compliance with these limits, combined with the potential to emit HAPs from all other emission units at this source, shall limit the source-wide total potential to emit any single HAP to less than ten (10) tons per twelve (12) consecutive month period and total HAPs to less than twenty-five (25) tons per twelve (12) consecutive month period and shall render the requirements of 326 IAC 2-4.1 not applicable.

<u>CARC Coating Line</u>

(a) 326 IAC 6.5 (Particulate Matter Limitations Except Lake County)
326 IAC 6.5 (Particulate Matter Limitations Except Lake County) was revised on March 21, 2012, for surface coating operations. As a result of this revision, the applicability of 326 IAC 6.5 is being reevaluated for the CARC Coating Line.

Pursuant to 326 IAC 6.5-1-2(h), the spray coating operation shall be controlled by a dry particulate filter and the source shall operate the control device in accordance with manufacturer's specifications.

This is a Title I change.

(b) 326 IAC 4-2-2 (Incinerators)
The burn-off oven, identified as BO-1, is used to destroy excess paint from hanging paint hooks. The excess paint on the hooks is considered a waste. Therefore, the burn-off oven is subject to the requirements of 326 IAC 4-2-1 because this oven meets the definition of an incinerator provided in 326 IAC 1-2-34 and is not subject to any of the rules identified in 326 IAC 4-2-1(b)(2).

Pursuant to 326 IAC 4-2, the burn-off oven, identified as BO-1, shall:

(1) Consist of primary and secondary chambers or the equivalent;

(2) Be equipped with a primary burner unless burning wood products;

(3) Comply with 326 IAC 5-1 and 326 IAC 2;

(4) Be maintained, operated, and burn waste in accordance with the manufacturer's specifications or an operation and maintenance plan as specified in 326 IAC 4-2-2(c); and

(5) Not emit particulate matter in excess of one (1) of the following:

(A) Three-tenths (0.3) pounds of particulate matter per one thousand (1,000) pounds of dry exhaust gas under standard conditions correct to fifty percent (50%) excess air for incinerators with solid waste capacity of greater than or equal to two-hundred (200) pounds per hour.

(A) Five-tenths (0.5) pounds of particulate matter per one thousand (1,000) pounds of dry exhaust gas under standard conditions corrected to fifty percent (50%) excess air for incinerators with solid waste capacity of less than two hundred (200) pounds per hour.

(6) If any of the requirements of (1) through (5) above are not met, the Permittee shall stop charging the incinerator until adjustments are made that address the underlying cause of the deviation.

This is a new applicable requirement.

(c) 326 IAC 9-1-2 (Carbon Monoxide Emission Limits)
The burn-off oven, identified as BO-1, which is considered refuse incineration and refuse burning equipment, is subject to 326 IAC 9-1-2 (Carbon Monoxide Emission Limits) because this unit is a stationary source of carbon monoxide constructed after March 21, 1972 and is subject to the requirements of 326 IAC 9-1-2(a)(3).

Pursuant to 326 IAC 9-1-2(a)(3) (Carbon Monoxide Emission Limits), the source shall not operate the burn-off oven, identified as BO-1, unless the waste gas stream is burned in one (1) of the following:

(1) Direct-flame afterburner; or

(2) Secondary chamber.

This is a new applicable requirement.

Abrasive Blasting Operations (BR, SCB1, SCB2, SCB3, LCB1, TB1, and WB1)
326 IAC 6.5 (Particulate Matter Limitations Except Lake County)
Pursuant to 326 IAC 6.5-1-2(a), the abrasive blasting operations, identified as BR, SCB1, SCB2, SCB3, LCB1, TB1, and WB1, are subject to the particulate matter (PM) limit of 0.03 grains per dry standard cubic foot of exhaust gas (gr/dscf).

The baghouse associated with BR shall be in operation at all times BR is in operation, in order to comply with the pound per hour limit. The dust collectors associated with SCB1, SCB2, SCB3, LCB1, and TB1 shall be in operation at all times SCB1, SCB2, SCB3, LCB1, and TB1 are in operation, respectively, in order to comply with the pound per hour limit. This is a new requirement. This is a Title I change.

Spray Booths EU-6, EU-7, EU-8, EU-9, EU-10, and EU-11
(a) 326 IAC 6.5 (Particulate Matter Limitations Except Lake County)

Pursuant to 326 IAC 6.5-1-2(h), the spray booths, identified as EU-6, EU-7, EU-8, EU-9, EU-10, and EU-11 shall be controlled by dry particulate filters and the source shall operate the dry filters in accordance with manufacturer's specifications.

(b) 326 IAC 8 (Volatile Organic Compound Rules)
Pursuant to 326 IAC 8-1-1(b), the source has decided to limit the total input of VOC to the six (6) spray booths, identified as EU-6, EU-7, EU-8, EU-9, EU-10, and EU11, to less than fifteen (15) pounds per day, each.

Compliance with these limits renders the other requirements of 326 IAC 8 not applicable to the six (6) spray booths, identified as EU-6, EU-7, EU-8, EU-9, EU-10, and EU11.

Parts Cleaning Operation (C1 through C7) and Insignificant Degreasing Operations

(a) 326 IAC 8-3-2 (Cold Cleaner Degreaser Control Equipment and Operating Requirements)

326 IAC 8-3-2 (Cold Cleaner Degreaser Control Equipment and Operating Requirements) was revised January 30, 2013. Therefore the existing requirements of 326 IAC 8-3-2 is being reevaluated for the existing insignificant activity of degreasing operations that do not exceed 145 gallons per 12 consecutive months. The insignificant degreasing operation is still subject to the requirements of 326 IAC 8-3-2 because it is an organic solvent degreasing operation that was constructed after January 1, 1980. The parts cleaning operation, identified as C1 through C7, is subject to the requirements of 326 IAC 8-3-2 because it is an organic solvent degreasing operation that was constructed after January 1, 1980. Pursuant to 326 IAC 8-3-2, the owner or operator of the cold cleaning facility shall:

(1) equip the cleaner with a cover;

(2) equip the cleaner with a facility for draining cleaned parts;

(3) close the degreaser cover whenever parts are not being handled in the degreaser;

(4) drain cleaned parts for at least fifteen (15) seconds or until dripping ceases;

(5) provide a permanent, conspicuous label summarizing the operation requirements in 326 IAC 8-3-2(a)(3), 326 IAC 8-3-2(a)(4), 326 IAC 8-3-2(a)(6), and 326 IAC 8-3-2(a)(7);

(6) store waste solvent only in closed containers;

(7) and prohibit the disposal or transfer of waste solvent in such a manner tha could allow greater than twenty percent (20%) of the waste solvent (by weight) to evaporate into the atmosphere.

The owner or operator of a cold cleaner degreaser shall ensure the following additional control equipment and operating requirements are met:

(a) Equip the degreaser with one (1) of the following control devices if the solvent is heated to a temperature of greater than forty-eight and nine-tenths (48.9) degrees Celsius (one hundred twenty (120) degrees Fahrenheit):

(A) a freeboard that attains a freeboard ratio of seventy-five hundreths (0.75) or greater;

(B) a water cover when solvent used is insoluble in, and heavier than, water;

(C) a refrigerated chiller;

(D) carbon adsorption; or

(E) an alternative system of demonstrated equivalent or better control as those outlined in 326 IAC 8-3-2(b)(A) through (D) that is approved by the department. An alternative system shall be submitted to the U.S. EPA as a SIP revision.

(b) Ensure the degreaser cover is designed so that it can be easily operated with one (1) hand if the solvent is agitated or heated.

(c) If used, solvent spray:

(A) must be a solid, fluid stream; and

(B) shall be applied at a pressure that does not cause excessive splashing.

(b) 326 IAC 8-3-5 (Cold Cleaner Degreaser Operation and Control)
The insignificant degreasing operations that do not exceed 145 gallons per 12 consecutive month, was subject to 326 IAC 8-3-5. However, on January 30, 2013, this rule was repealed. Therefore, this degreasing operation is no longer subject to this rule and the requirements of this rule will be removed from the permit.

(b) 326 IAC 8-3-8 (Material requirements for cold cleaner degreasers)
After January 1, 2015, the parts cleaning operation, identified as C1 through C7, and the insignificant degreasing operations that do not exceed 145 gallons per 12 consecutive months will be subject to the requirements of 326 IAC 8-3-8 because it is an organic solvent degreasing operation. Pursuant to 326 IAC 8-3-8, the owner or operator of a cold cleaning facility shall not operate a cold cleaner degreaser with a solvent that has a VOC composite partial vapor pressure that exceeds one (1) millimeter of mercury (nineteen-thousandths (0.019) pound per square inch) measured at twenty (20) degrees Celsius (sixty-eight (68) degrees Fahrenheit).

Natural gas-fired Air Makeup Units (AM-1 through AM-3)

(a) 326 IAC 6.5 (Particulate Matter Limitations Except Lake County)
Pursuant to 326 IAC 6.5, the air makeup units, identified as AM-1 through AM-3, are subject to the particulate matter (PM) limit of 0.03 gr/dscf of exhaust gas.

The air makeup units, identified as AM-1 through AM-3, are able to comply with 326 IAC 6.5 without using a control device. This is a new requirement. This is a Title I change.

(b) 326 IAC 6-2 (Particulate Emission Limitations for Sources of Indirect Heating)
The natural gas-fired air makeup units, identified as AM-1 through AM-3, are not subject to 326 IAC 6-2 (Particulate Emission Limitations for Sources of Indirect Heating) because, pursuant to 326 IAC 1-2-19, these emission units do not meet the definition of an indirect heating unit.

Dipping lines

(a) 326 IAC 6.5 (Particulate Matter Limitations Except Lake County)
Pursuant to 326 IAC 6.5-1-1(c)(1), the dipping lines apply a dip coating, do not have a particulate limitation, and the requirements of 326 IAC 6.5 do not apply to these processes.

(b) 326 IAC 8-1-6 (New Facilities; General Reduction Requirements)

The unlimited VOC potential emissions from the dipping lines, identified as the zinc/phosphate line and manganese dipping line, is less than twenty-five (25) tons per year, each. Therefore, the requirements of 326 IAC 8-1-6 do not apply.

Boiler (B-10)

(a) 326 IAC 6-2 (Particulate Emission Limitations for Sources of Indirect Heating)
Pursuant to 326 IAC 6-2-1(e) (Particulate Emission Limitations for Sources of Indirect Heating), boiler B-10 is subject to an emissions limit in 326 IAC 6.5 (Particulate Matter Limitations Except Lake County) that is inconsistent with 326 IAC 6-2. Therefore the limitation in 326 IAC 6.5 prevails.

(b) 326 IAC 6.5-1-2 (Particulate Matter Limitations Except Lake County)
Pursuant to 326 IAC 6.5-1-2(b)(3), the boiler, identified as B-10, is subject to the particulate matter (PM) limit of 0.01 gr/dscf of exhaust gas.

The boiler, identified as B-10, is able to comply with 326 IAC 6.5 without using a control device. This is a new requirement. This is a Title I change.

Abrasive Blasting Operation (AB-1)

Existing permit conditions and limitations associated with the Abrasive Blasting Operation, identified as AB-1, are still applicable. The control device associated with the abrasive blasting operation (AB-1) is different from the cyclone that was permitted. The dust collector will control the abrasive blasting operation. Changes to the compliance determination and monitoring requirements for the abrasive blasting operation AB-1 are in the following section.

Powder Coating Operation (PP-1)

Existing permit conditions and limitations associated with the Powder Coating Operation, identified as PP-1, are still applicable. There are no new rules or changes to existing rules that need to be evaluated.

Compliance Determination and Monitoring Requirements

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

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

The Compliance Determination Requirements applicable to this modification are as follows:

(a) In order to comply with the requirements of 326 IAC 6.5, the baghouse associated with the abrasive blasting room, identified as BR, shall be operated at all times that the blasting room is in operation.

(b) In order to comply with the requirements of 326 IAC 6.5, the dust collectors associated with SCB1, SCB2, SCB3, LCB1, and TB1 shall be operated at all times that SCB1, SCB2, SCB3, LCB1, and TB1 are operated, respectively.

(c) In order to comply with the requirements of 326 IAC 6.5, the dry filters associated with the six (6) spray booths, identified as EU-6, EU-7, EU-8, EU-9, EU-10, and EU11, shall be operated at all times that the six (6) spray booths are operated.

(d) In order to comply with the requirements of 326 IAC 6.5 and to render the requirements of 326 IAC 2-2 not applicable, the dust collector associated with the abrasive blasting operation AB-1, shall be operated at all times that the abrasive blasting operation AB-1 is in operation.

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

(e) The blasting room's, identified as BR, compliance monitoring condition is semi-annual baghouse inspections. This is necessary because the baghouse that controls particulate emissions from the blasting room shall be in operation at all times that the blasting room is in operation and must operate properly to ensure compliance with 326 IAC 6.5.

The baghouse for control of particulate from the blasting room exhausts inside the building. IDEM does not require visible emissions notations for particulate sources that exhaust indoors and whose vents cannot be redirected outdoors, but the baghouse needs semi-annual inspections because the control was used for potential to emit for the calculations.

(f) The dust collectors associated with SCB1, SCB2, SCB3, LCB1, and TB1 has the compliance monitoring condition of semi-annual dust collector inspections. This is necessary because the dust collectors that controls particulate emissions from SCB1, SCB2, SCB3, LCB1, and TB1 shall be in operation at all times that SCB1, SCB2, SCB3, LCB1, and TB1 are in operation, respectively, and must operate properly to ensure compliance with 326 IAC 6.5.

The dust collectors for control of particulate from SCB1, SCB2, SCB3, LCB1, and TB1 exhaust inside the building. IDEM does not require visible emissions notations for particulate sources that exhaust indoors and whose vents cannot be redirected outdoors, but the dust collectors need semi-annual inspections because the control was used for potential to emit for the calculations.

(g) The six (6) spray booths, identified as EU-6, EU-7, EU-8, EU-9, EU-10, and EU11, have the following compliance monitoring requirements:

(1) Daily integrity and particle loading inspections;
(2) Weekly overspray observations; and
(3) Monthly stack inspections

These monitoring conditions are necessary because the dry filters associated with the six (6) spray booths, identified as EU-6, EU-7, EU-8, EU-9, EU-10, and EU11, must operate properly to ensure compliance with 326 IAC 6.5.

(h) The dust collector associated with the abrasive blasting operation AB-1, has the compliance monitoring condition of daily parametric monitoring. This is necessary because the dust collector that controls the particulate emissions for AB-1 shall be in operation at all times that AB-1 is in operation and must operate properly to ensure compliance with 326 IAC 2-2 and 326 IAC 6.5.

This is a change to the requirement because AB-1 exhausts indoors and visual emission notations were used for exhausting outdoors.

Proposed Changes

The changes listed below have been made to Part 70 Operating Permit No. 141-29765-00574. Deleted language appears as ~~strikethroughs~~ and new language appears in **bold**:

1. Section A.1 has been updated to more accurately reflect the type of the facility that is operating and the phone number.

2. Section A.2, A.3, and A.4 have been revised to include descriptive information for the new abrasive blasting units, spray booths, cleaning operation, air makeup units, modified phosphate line, manganese lines, electric ovens, and boiler. It has also been revised to include descriptive information on when the existing units have been constructed and to allow for approval to construct abrasive blasting operation AB-1 and powder coating operation PP-1. The descriptive information for the permitted cure ovens has also been updated. The descriptive information for the passivation and etching operations has been updated as well.

3. As a result of updating Section A.2, A.3, and A.4, IDEM, OAQ is revising the descriptive information in Sections D.1, D.2, D.3, D.4, and E.1 to reflect the construction changes that have occurred for the existing units.

4. Due to this revision, IDEM, OAQ has added the requirements for the air makeup units into Section D.1.1 because the air makeup units are only subject to 326 IAC 6.5 and Section D.1 covers emission units that are only subject to 326 IAC 6.5 and no other requirements.

5. The new spray booths, identified as EU-6 through EU-11, have been added into Section D.2 because the section currently covers the existing coating line and there are similar applicable requirements.

6. Condition D.2.1 has been revised to have citations for the applicable rules and to include requirements for the new spray booths and to revise the citation to exclude the cure oven that was not constructed. Condition D.2.2 has been revised because 326 IAC 8-2-9 was revised and all of the options for 326 IAC 8-2-9 were not included in the permit.

7. Condition D.2.4 has been revised as requested by the Permittee, to have a more stringent limitation of the HAP emissions for the CARC line to continue to render 326 IAC 2-4.1 not applicable.

8. IDEM, OAQ has updated Section D.2 to include new volatile organic compound rules because new spray booths are subject to 326 IAC 6.5 and the Permittee has requested limitations for VOC on the new spray booths to render 326 IAC 8 and 326 IAC 2-2 not applicable.

9. IDEM, OAQ has updated Section D.2 has been updated to include the incineration rules and carbon monoxide emission limits for the burn-off oven, identified as BO-1.

10. IDEM, OAQ has updated the citations throughout Section D.2 as a result of adding in the VOC limitations, incineration rules, and carbon monoxide emission limits.

11. IDEM, OAQ has updated the language in Condition D.3.1 to remove ambiguity in regards to the PSD minor limits.

12. IDEM, OAQ has updated the citations for the various units in Condition D.3.2 to accurately reflect the applicable requirements.

13. IDEM, OAQ has revised Section D.4 to include the new boiler and to update the applicable requirements to accurately reflect the applicable rules.

14. Due to this revision, IDEM, OAQ is revising Section D.5 to include the new parts cleaning operation and to update the applicable requirements to the existing degreasing operation in regards to 326 IAC 8-3-2 and 326 IAC 8-3-8 and to remove 326 IAC 8-3-5 since it is no longer applicable.

15. Due to this revision, IDEM, OAQ was required to add Section D.6 because the new abrasive blasting operations are subject to 326 IAC 6.5.

16. Due to this revision, IDEM, OAQ was required to add the new spray booths into Section E.1 because they are affected units under 40 CFR Part 63, Subpart HHHHHH.

17. Due to this revision, IDEM, OAQ was required to add Section E.2 because the manganese dipping line is an affected unit under 40 CFR Part 63, Subpart WWWWWW.

18. As a result of the change to Condition D.2.4, IDEM, OAQ has revised the quarterly reports for the CARC line to more accurately comply with the limitation.

19. As a result of the limitations on the new spray booths, IDEM, OAQ has added quarterly reports for each new spray booth.

...

A.1 General Information [326 IAC 2-7-4(c)][326 IAC 2-7-5(14)][326 IAC 2-7-1(22)]

The Permittee owns and operates a stationary metal ~~fabrication~~ **treatment** facility and surface coating operation.

...
General Source Phone Number: ~~475-287-2941~~**574-287-0642**

...

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

...

(a) One (1) Passivation Operation, identified as PS-1, ~~approved for construction in 2010~~**constructed in 2011**, consisting of ~~four (4)~~**ten (10)** tanks, with a maximum volume of 400 gallons.

(b) One (1) Etching Operation, identified as ET-1, ~~approved for construction in 2010~~ **constructed in 2011**, consisting of ~~three (3)~~**nine (9)** tanks, with a maximum volume of 300 gallons.

(c) One (1) CARC coating line, ~~approved for construction in 2010~~ **constructed in 2011**, with particulate emissions controlled by dry filters, consisting of the following units:

...

(d) One (1) abrasive blasting operation, identified as AB-1, approved for construction in ~~2010~~**2014**, with a maximum capacity of 500 pounds of blasting material (aluminum oxide) per hour, with emissions controlled by a ~~cyclone~~**dust collector**, exhausting ~~through stack AB-1~~**indoors**.

(e) One (1) powder coating operation, identified as PP-1, approved for construction in ~~2010~~**2014**, with a maximum capacity of 5.75 pounds of powder per hour, with emissions controlled by a baghouse, exhausting through stack PP-1.

(f) ~~Three~~**Two** (~~3~~**2**) natural gas-fired cure ovens, identified as CO-1 ~~through CO-3~~**and CO-2**, ~~approved for construction in 2010~~ **constructed in 2011**, with maximum heat input capacities of ~~3.50~~ **3.0** MMBtu/hr, ~~3.50 MMBtu/hr, and 0.40 MMBtu/hr, respectively~~**each**, with emissions exhausting through stacks CO-1 ~~through CO-3~~**and CO-2**, respectively.

(g) One (1) natural gas-fired boiler, identified as B-1, ~~approved for construction in 2010~~ **constructed in 2011**, used for process heat, with a maximum heat input capacity of 3.65 MMBtu/hr, with emissions exhausting through stack B-1.

(h) Seven (7) natural gas-fired space heaters, identified as B-2 and B-4 through B-9, ~~approved for construction in 2010~~ **constructed in 2011**, with maximum heat input capacities of 0.22 MMBtu/hr, 0.20 MMBtu/hr, 0.32 MMBtu/hr, 0.20 MMBtu/hr, 0.20 MMBtu/hr, 2.00 MMBtu/hr, and 0.20 MMBtu/hr, respectively, with emissions exhausting through stacks B-2 and B-4 through B-9, respectively.

(i) One (1) new blasting operation consisting of the following:

(1) One (1) blasting room, identified as BR, approved for construction in 2014, using glass, plastic bead, or aluminum oxide media, with a maximum abrasive usage of five hundred (500) pounds per hour and five hundred (500) pounds of metal per hour, for a combined process weight rate of 0.5 tons per hour, exhausting to a baghouse as control which exhausts indoors. The baghouse has a 1,200 cubic feet per minute capacity.

(2) Three (3) small cabinet blasters, identified as SCB1, SCB2, and SCB3, approved for construction in 2014, using glass, plastic bead, or aluminum oxide media, with a maximum abrasive usage of ten (10) pounds per hour, each, and ninety (90) pounds of metal per hour, each, for a combined process weight rate of 100 pounds per hour, each, exhausting to a dust collector, each, as control which exhaust indoors. The dust collectors have a 800 cubic feet per minute capacity.

(3) One (1) large cabinet blaster, identified as LCB1, approved for construction in 2014, using glass, plastic bead, or aluminum oxide media, with a maximum abrasive usage of twenty-five (25) pounds per hour and seventy-five (75) pounds of metal per hour, for a combined process weight rate of 100 pounds per hour, exhausting to a dust collector as control which exhausts indoors. The dust collector has a 850 cubic feet per minute capacity.

(4) One (1) tumble blaster, identified as TB1, approved for construction in 2014, using aluminum oxide media, with a maximum abrasive usage of ten (10) pounds per hour and ninety (90) pounds of metal per hour, for a combined process weight rate of 100 pounds per hour, exhausting to a dust collector as control which exhausts indoors. The dust collector has a 800 cubic feet per minute capacity.

(5) One (1) wet blaster, identified as WB1, approved for construction in 2014, using vermiculite media, operating wet when in use, with a maximum abrasive usage of ten (10) pounds per hour and ninety (90) pounds of metal, for a combined process weight rate of 100 pounds per hour, exhausting to a baghouse as control which exhaust indoors.

(j) One (1) spray booth, identified as EU-6, approved for construction in 2014, utilizing a high volume, low pressure (HVLP) applicator, with a maximum capacity of 80 metal units per hour, using dry filters to control particulate overspray, and exhausting to stack EU6S.

The spray booth EU-6 is considered a new affected source under 40 CFR 63, Subpart HHHHHH.

(k) One (1) spray booth, identified as EU-7, approved for construction in 2014, utilizing a high volume, low pressure (HVLP) applicator, with a maximum capacity of 80

metal units per hour, using dry filters to control particulate overspray, and exhausting to stack EU7S.

The spray booth EU-7 is considered a new affected source under 40 CFR 63, Subpart HHHHHH.

(l) One (1) spray booth, identified as EU-8, approved for construction in 2014, utilizing a high volume, low pressure (HVLP) applicator, with a maximum capacity of 80 metal units per hour, using dry filters to control particulate overspray, and exhausting to stack EU8S.

The spray booth EU-8 is considered a new affected source under 40 CFR 63, Subpart HHHHHH.

(m) One (1) spray booth, identified as EU-9, approved for construction in 2014, utilizing a high volume, low pressure (HVLP) applicator, with a maximum capacity of 80 metal units per hour, using dry filters to control particulate overspray, and exhausting to stack EU9S.

The spray booth EU-9 is considered a new affected source under 40 CFR 63, Subpart HHHHHH.

(n) One (1) spray booth, identified as EU-10, approved for construction in 2014, utilizing a high volume, low pressure (HVLP) applicator, with a maximum capacity of 80 metal units per hour, using dry filters to control particulate overspray, and exhausting to stack EU10S.

The spray booth EU-10 is considered a new affected source under 40 CFR 63, Subpart HHHHHH.

(o) One (1) spray booth, identified as EU-11, approved for construction in 2014, utilizing a high volume, low pressure (HVLP) applicator, with a maximum capacity of 80 metal units per hour, using dry filters to control particulate overspray, and exhausting to stack EU11S.

The spray booth EU-11 is considered a new affected source under 40 CFR 63, Subpart HHHHHH.

(p) One (1) parts cleaning operation, consisting of six (6) fifteen (15) gallon tubs, identified as C1 through C6, and one (1) one thousand seven hundred (1,700) gallon tank, identified as C7, approved for construction in 2014, utilizing a diluted hydrofluoric and nitric acid solution and rinse, exhausting indoors.

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

...

(a) Degreasing operations that do not exceed 145 gallons per 12 **consecutive** months, except if subject to 325 IAC 20-6. [326 IAC 8-3-2] ~~[326 IAC 8-3-5]~~**[326 IAC 8-3-8]**

(b) Paved and unpaved roads and parking lots with public access. [326 IAC 6-4]

(c) One (1) natural gas-fired air makeup unit, identified as AM-1, with a 8.8 MMBtu/hr heat input rating, approved for construction in 2014, exhausting outdoors. [326 IAC 6.5]

(d) One (1) manganese dipping line, consisting of twenty-two (22) tanks, approved for construction in 2014, with varying chemicals used in each tank, exhausting indoors.

The manganese dipping line is considered a new affected source under 40 CFR 63, Subpart WWWWWW.

(e) Two (2) natural gas-fired air makeup units, identified as AM-2 and AM-3, with a 4.0 MMBtu/hr heat input rating, each, constructed in 2011 and exhausting indoors. [326 IAC 6.5]

(f) One (1) natural gas-fired boiler, identified as B-10, with a 8.65 MMBtu/hr heat input rating, approved for construction in 2014, exhausting to stack B-1. [326 IAC 6.5]

A.4 Insignificant Activities:

...

(b) ~~One (1) non-emitting phosphatizing line, to be constructed in 2012.~~ **One (1) phosphate line, consisting of thirteen (13) tanks, to be constructed in 2014, with varying chemicals used in each tank, using a scrubber as a control device.**

Note: There are twelve (12) existing tanks that were constructed in 2012 and one (1) new tank approved for construction in 2014. Two (2) of the existing twelve (12) tanks actually have emissions.

(c) Four (4) electric ovens approved for construction in 2014.

...

SECTION D.1 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

(a) One (1) Passivation Operation, identified as PS-1, ~~approved for construction in 2010~~**constructed in 2011**, consisting of ~~four (4)~~**ten (10)** tanks, with a maximum volume of 400 gallons.

(b) One (1) Etching Operation, identified as ET-1, ~~approved for construction in 2010~~**constructed in 2011**, consisting of ~~three (3)~~**nine (9)** tanks, with a maximum volume of 300 of gallons.

(c) One (1) powder coating operation, identified as PP-1, ~~approved for construction in 2010~~**constructed in 2011**, with a maximum capacity of 5.75 pounds of powder per hour, with emissions controlled by a baghouse, exhausting through stack PP-1.

(d) Seven (7) natural gas-fired space heaters, identified as B-2 and B-4 through B-9, ~~approved for construction in 2010~~**constructed in 2011**, with maximum heat input capacities of 0.22 MMBtu/hr, 0.20 MMBtu/hr, 0.32 MMBtu/hr, 0.20 MMBtu/hr, 0.20 MMBtu/hr, 2.00 MMBtu/hr, and 0.20 MMBtu/hr, respectively, with emissions exhausting through stacks B-2 and B-4 through B-9, respectively.

Insignificant Activity:

(c) One (1) natural gas-fired air makeup unit, identified as AM-1, with a 8.8 MMBtu/hr heat input rating, approved for construction in 2014, exhausting indoors. [326 IAC 6.5]

(e) Two (2) natural gas-fired air makeup units, identified as AM-2 and AM-3, with a 4.0 MMBtu/hr heat input rating, each, constructed in 2011 and exhausted indoors. [326 IAC 6.5]
(The information describing the process contained in this emissions unit description box is descriptive information and does not constitute enforceable conditions.)

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

D.1.1 Particulate Emission Limitations, Except Lake County [326 IAC 6.5-1-2]

...

(e) The particulate matter emissions from each natural gas-fired air makeup unit (AM-1 through AM-3) shall not exceed 0.03 gr/dscf

...

SECTION D.2 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

(a) One (1) CARC coating line, ~~approved for construction in 2010~~**constructed in 2011**, with particulate emissions controlled by dry filters, consisting of the following units:

(1) Four (4) spray booths, identified as (EU-01 through EU-04), with a maximum capacity of 50 units per hour each, exhausting to stacks EU-01 through EU-04, respectively;

(2) One (1) touch-up spray booth, identified as EU-05, with a maximum capacity of 10 units per hour, exhausting to stack EU-05 and

(3) One (1) burn-off oven, identified as BO-1, approved for construction in 2011, with a maximum heat input capacity of 0.80 mmBtu//hr, with emissions exhausting through stack B0-1.

(b) ~~Three~~**Two** (~~3~~**2**) natural gas-fired cure ovens, identified as CO-1 ~~through CO-3~~**and CO-2**, ~~approved for construction in 2010~~**constructed in 2011**, with maximum heat input capacities of ~~3.50~~**3.0** MMBtu/hr, ~~3.50 MMBtu/hr, and 0.40 MMBtu/hr, respectively~~**each**, with emissions exhausting through stacks CO-1 ~~through CO-3~~**and CO-2**, respectively.

(a) One (1) spray booth, identified as EU-6, approved for construction in 2014, utilizing a high volume, low pressure (HVLP) applicator, with a maximum capacity of 80 metal units per hour, using dry filters to control particulate overspray, and exhausting to stack EU6S.

The spray booth EU-6 is considered a new affected source under 40 CFR 63, Subpart HHHHHH.

(b) One (1) spray booth, identified as EU-7, approved for construction in 2014, utilizing a high volume, low pressure (HVLP) applicator, with a maximum capacity of 80 metal units per hour, using dry filters to control particulate overspray, and exhausting to stack EU7S.

The spray booth EU-7 is considered a new affected source under 40 CFR 63, Subpart HHHHHH.

(c) One (1) spray booth, identified as EU-8, approved for construction in 2014, utilizing a high volume, low pressure (HVLP) applicator, with a maximum capacity of 80 metal units per hour, using dry filters to control particulate overspray, and exhausting to stack EU8S.

The spray booth EU-8 is considered a new affected source under 40 CFR 63, Subpart

HHHHHH.

(d) One (1) spray booth, identified as EU-9, approved for construction in 2014, utilizing a high volume, low pressure (HVLP) applicator, with a maximum capacity of 80 metal units per hour, using dry filters to control particulate overspray, and exhausting to stack EU9S.

The spray booth EU-9 is considered a new affected source under 40 CFR 63, Subpart HHHHHH.

(e) One (1) spray booth, identified as EU-10, approved for construction in 2014, utilizing a high volume, low pressure (HVLP) applicator, with a maximum capacity of 80 metal units per hour, using dry filters to control particulate overspray, and exhausting to stack EU10S.

The spray booth EU-10 is considered a new affected source under 40 CFR 63, Subpart HHHHHH.

(f) One (1) spray booth, identified as EU-11, approved for construction in 2014, utilizing a high volume, low pressure (HVLP) applicator, with a maximum capacity of 80 metal units per hour, using dry filters to control particulate overspray, and exhausting to stack EU11S.

The spray booth EU-11 is considered a new affected source under 40 CFR 63, Subpart HHHHHH.

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

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

D.2.1 Particulate Emission Limitations, Except Lake County [326 IAC 6.5-1-2]

(a) ~~The particulate matter emissions from each surface coating stack (EU-01 through EU-05) shall not exceed 0.03 g/dscf.~~**Pursuant to 326 IAC 6.5-1-2(h), the CARC Line and the spray booths, identified as EU-6 through EU-11, shall each be controlled by dry particulate filters and the Permittee shall operate the control devices in accordance with manufacturer's specifications.**

(b) **Pursuant to 326 IAC 6.5-1-2(a),** ~~The~~ **the** particulate matter emissions from each cure oven (CO-1 ~~through CO-3~~**and CO-2**) shall not exceed 0.03 gr/dscf.

D.2.2 Miscellaneous Metals Coating [326 IAC 8-2-9]

~~Pursuant to 326 IAC 8-2-9 (Miscellaneous Metal Coating Operations), the volatile organic compound (VOC) content of coating delivered to the applicator at the surface coating units shall be limited to 4.3 when using clear coating, 3.5 when using extreme performance coating, or 3.0 for all other coatings pounds of VOC per gallon of coating less water.~~

~~Solvent sprayed from application equipment during cleanup or color changes shall be directed into containers. Such containers shall be closed as soon as such solvent spraying is complete, and the waste solvent shall be disposed of in such a manner that evaporation is minimized.~~

Pursuant to 326 IAC 8-2-9 (Miscellaneous Metal and Plastic Parts Coating Operations), when surface coating miscellaneous metal parts or products on the CARC Line (EU-01 through EU-05):

(a) The Permittee shall not cause, allow, or permit the discharge into the atmosphere of any VOC in excess of the following:

(1) Fifty-two hundredths (0.52) kilogram per liter (four and three-tenths (4.3) pounds per gallon) of coating, excluding water, delivered to a coating applicator that applies clear coatings.

(2) Forty-two hundredths (0.42) kilogram per liter (three and five-tenths (3.5) pounds per gallon) of coating, excluding water, delivered to a coating applicator in a coating application system that is air dried or forced warm air dried at temperatures up to ninety (90) degrees Celsius (one hundred ninety-four (194) degrees Fahrenheit).

(3) Forty-two hundredths (0.42) kilogram per liter (three and five-tenths (3.5) pounds per gallon) of coating, excluding water, delivered to a coating applicator that applies extreme performance coatings.

(4) Thirty-six hundredths (0.36) kilogram per liter (three (3) pounds per gallon) of coating, excluding water, delivered to a coating applicator for all other coatings and coating application systems.

If more than one (1) of these emission limitations applies to a specific coating, then the least stringent emission limitation shall apply.

(b) Pursuant to 326 IAC 8-2-9(f), work practices shall be used to minimize VOC emissions from mixing operations, storage tanks, and other containers, and handling operations for coatings, thinners, cleaning materials, and waste materials. Work practices shall include, but not be limited to, the following:

(1) Store all VOC containing coatings, thinners, coating related waste, and cleaning materials in closed containers.

(2) Ensure that mixing and storage containers used for VOC containing coatings, thinners, coating related waste, and cleaning materials are kept closed at all times except when depositing or removing these materials.

(3) Minimize spills of VOC containing coatings, thinners, coating related waste, and cleaning materials.

(4) Convey VOC containing coatings, thinners, coating related waste, and cleaning materials from one (1) location to another in closed containers or pipes.

(5) Minimize VOC emissions from the cleaning of application, storage, mixing, and conveying equipment by ensuring that equipment cleaning is performed without atomizing the cleaning solvent and all spent solvent is captured in closed containers.

D.2.3 Preventive Maintenance Plan [326 IAC 2-7-5(12)]

A Preventive Maintenance Plan is required for ~~the surface coating units and any~~**this facility and its** control devices. Section B - Preventive Maintenance Plan contains the Permittee's obligation with regard to the preventive maintenance plan required by this condition.

D.2.4 Hazardous Air Pollutant (HAP) Emissions Minor Limit ~~[40 CFR 63]~~**[326 IAC 2-4.1]**

~~The source wide potential to emit any individual HAP is limited to less than 10 tons per 12 consecutive month period and the source wide potential to emit combined HAPs is limited to less than 25 tons per 12 consecutive month period. Compliance with these limits renders 40 CFR 63, Subpart MMMM not applicable.~~

In order to render the requirements of 326 IAC 2-4.1 not applicable, the Permittee shall comply with the following limits:

(a) The total single HAP input to the CARC coating line and spray booths, identified as EU-6 through EU-11, shall not exceed nine and nine tenths (9.9) tons per twelve (12) consecutive month period with compliance determined at the end of each month.

(b) The total input of any combination of HAPs to the CARC coating line and spray booths, identified as EU-6 through EU-11, shall not exceed thirteen and five tenths (13.5) tons per twelve (12) consecutive month period with compliance determined at the end of each month.

Compliance with these limits, combined with the potential to emit HAPs from all other emission units at this source, shall limit the source-wide total potential to emit any single HAP to less than ten (10) tons per twelve (12) consecutive month period and total HAPs to less than twenty-five (25) tons per twelve (12) consecutive month period and shall render the requirements of 326 IAC 2-4.1 not applicable.

D.2.5 Volatile Organic Compounds (VOC) [326 IAC 8-1-1(b)] [326 IAC 2-2]

Pursuant to 326 IAC 8-1-1(b) (Volatile Organic Compounds), and in order to render the requirements of 326 IAC 2-2 (PSD) and 326 IAC 8 (Volatile Organic Compounds) not applicable, the Permittee shall comply with the following:

(a) The VOC input, including coatings, dilution solvents, and cleaning solvents, to each of the six (6) spray booths, identified as EU-6, EU-7, EU-8, EU-9, EU-10, and EU-11, shall be less than fifteen (15.0) pounds per day, each, with compliance determined at the end of each day.

Compliance with these limits, combined with the potential to emit VOC from all other emission units at this source, shall limit the source-wide total potential to emit VOC to less than 250 tons per 12 consecutive month period and shall render the requirements of 326 IAC 2-2 (PSD) and 326 IAC 8 (Volatile Organic Compounds) not applicable.

D.2.6 Incinerators [326 IAC 4-2-2]

Pursuant to 326 IAC 4-2 (Incinerators), the burn-off oven, identified as BO-1, shall:

(a) Consist of primary and secondary chambers or the equivalent;

(b) Be equipped with a primary burner unless burning wood products;

(c) Comply with 326 IAC 5-1 and 326 IAC 2;

(d) Be maintained, operated, and burn waste in accordance with the manufacturer's specifications or an operation and maintenance plan as specified in 326 IAC 4-2-2(c); and

(e) Not emit particulate matter in excess of one (1) of the following:

(1) Three-tenths (0.3) pounds of particulate matter per one thousand (1,000) pounds of dry exhaust gas under standard conditions correct to fifty percent (50%) excess air for incinerators with solid waste capacity of greater than or equal to two-hundred (200) pounds per hour.

(2) Five-tenths (0.5) pounds of particulate matter per one thousand (1,000) pounds of dry exhaust gas under standard conditions corrected to fifty percent (50%) excess air for incinerators with solid waste capacity of less than two hundred (200) pounds per hour.

(f) If any of the requirements of (a) through (e) above are not met, the Permittee shall stop charging the incinerator until adjustments are made that address the

underlying cause of the deviation.

The Permittee operating the incinerator must make the manufacturer's specifications or the operation and maintenance plan available to the department upon request.

D.2.7 Carbon Monoxide Emission Limits [326 IAC 9-1-2]

Pursuant to 326 IAC 9-1-2 (Carbon Monoxide Emission Limits), the Permittee shall not operate the burn-off oven, identified as BO-1, unless the waste gas stream is burned in one of the following:

(a) Direct-flame afterburner; or

(b) Secondary chamber.

Compliance Determination Requirements

D.2.~~5~~**8** Control Requirements [326 IAC 2-7-6(6)]

In order to comply with Condition D.2.1, dry filters must be in operation and controlling emissions at all times ~~any of the surface coating units~~**that the CARC line and spray booths, identified as EU-6 through EU-11,** are in operation.

D.2.~~6~~**9** Volatile Organic Compounds (VOC) [326 IAC 8-1-4] [326 IAC 8-1-2(a)] [326 IAC 2-2]

Compliance with the VOC content limitation contained in Condition**s** D.2.2 **and D.2.5** shall be determined pursuant to 326 IAC 8-1-4(a)(3) and 326 IAC 8-1-2(a) by preparing or obtaining from the manufacturer the copies of the “as supplied” and “as applied” VOC data sheets. IDEM, OAQ, reserves the authority to determine compliance using Method 24 in conjunction with the analytical procedures specified in 326 IAC 8-1-4.

D.2.~~7~~**10** Monitoring [326 IAC 2-7-5(1)]

(a) Daily inspections shall be performed to verify the placement, integrity and particle loading of the filters. To monitor the performance of the dry filters, weekly observations shall be made of the overspray from the surface coating booth stacks (EU-1 through EU-5) **and from the six (6) spray booth stacks EU6S, EU7S, EU8S, EU9S, EU10S, and EU11S** while one or more of the booths**, EU-1 through EU-11, respectively,** are in operation. Failure to take response steps shall be considered a deviation from this permit. **If a condition exists which should result in a response, the Permittee shall take reasonable response. Failure to take response steps shall be considered a deviation from this permit.** Section C - Response to Excursions and Exceedances contains the Permittee's obligation with regard to response steps.

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

D.2.~~8~~**11** Record Keeping Requirement

(a) In order to document the compliance status with Condition ~~D.2.6~~**D.2.10**, the Permittee shall maintain a log of weekly overspray observations and daily and monthly inspections. **The Permittee shall include in its record when an inspection is not taken and the reason for the lack of inspection (e.g. the process did not operate that day).**

...

(c) In order to document the compliance status with Condition D.2.3, the Permittee shall maintain records in accordance with (1) through (5) below. Records maintained for (1) through (5) shall be taken as stated below and shall be complete and sufficient to establish compliance with the VOC usage limits established in

Condition D.2.3. Records necessary to demonstrate compliance shall be available not later than thirty (30) days after the end of each compliance period.

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

(2) The amount of coating material and solvent used on a daily basis.

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

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

(3) The daily cleanup solvent usage;

(4) The total VOC usage for each day;

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

(~~c~~**d**) In order to document the compliance status with Condition D.2.~~4~~**5**, the Permittee shall maintain records in accordance with (1) through (4) below. Records maintained for (1) through (4) shall be taken monthly and shall be complete and sufficient to establish compliance with the HAP usage limits and/or the HAP emission limits established in Condition D.2.4. Records necessary to demonstrate compliance shall be available no later than 30 days of the end of each compliance period.

...

(~~d~~**e**) Section C - General Record Keeping Requirements contains the Permittee's obligation with regard to record keeping

...

D.2.~~9~~**12** Reporting Requirements

A quarterly summary of the information to document the compliance status with Condition**s** D.2.3 **and** D.2.**5** shall be submitted not later than thirty (30) days after the end of the quarter being reported. Section C - General Reporting contains the Permittee's obligation with regard to the reporting required by this condition. The report submitted by the Permittee does not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

SECTION D.3 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

(a) One (1) abrasive blasting operation, identified as AB-1, approved for construction in ~~2010~~**2014**, with a maximum capacity of 500 pounds of blasting material (aluminum oxide) per hour, with emissions controlled by a ~~cyclone~~**dust collector**, exhausting ~~through stack AB-1~~**indoors**.

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

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

D.3.1 PSD Minor Limits [326 IAC 2-2]

In order to render the requirements of 326 IAC 2-2 not applicable to the entire source, the Permittee shall comply with the following limits:

(a) PM emissions **after control** from the Abrasive Blasting operation (AB-1) shall not exceed 9.72 lb/hr.

(b) PM10 emissions **after control** from the Abrasive Blasting operation (AB-1) shall not exceed 9.72 lb/hr.

...

D.3.2 Particulate Emission Limitations, Except Lake County [326 IAC 6.5-1-2]

Pursuant to 326 IAC 6.5-1-2(a), the~~The~~ particulate matter emissions from the abrasive blasting operation shall not exceed 0.03 gr/dscf.

...

D.3.4 Control Requirements [326 IAC 2-7-6(6)]

(a) In order to comply with Condition D.3.1 and Condition D.3.2, the ~~cyclone~~ **dust collector** must be in operation and controlling emissions at all times the abrasive blasting units are in operation.

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

D.3.5 Testing Requirements [326 IAC 2-7-6(1),(6)] [326 IAC 2-1.1-11]

(a) In order to demonstrate the compliance status with Condition D.3.1, within 180 days of start-up of the blasting operation, the Permittee shall perform PM testing on the ~~cyclone~~**dust collector** using methods as approved by the Commissioner. These tests shall be repeated at least five (5) years from the date of this valid compliance demonstration. Section C- Performance Testing contains the Permittee's obligation with regard to performance testing.

(b) In order to demonstrate compliance with Condition D.3.1, the Permittee shall perform PM10 testing for the ~~cyclone~~ **dust collector** within 180 days of publication of the new or revised condensable PM10 and PM2.5 test method(s) referenced in the U. S. EPA's Final Rule for Implementation of the New Source Review (NSR) Program for Particulate Matter Less Than 2.5 Micrometers (PM2.5), signed on May 8th, 2008 or within 180 days of issuance of this permit, whichever is later. This testing shall be conducted utilizing methods as approved by the Commissioner. These tests shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. Section C - Performance Testing contains the Permittee's obligation with regard to performance testing. PM10 includes filterable and condensable PM10.

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

D.3.6 ~~Visible Emissions Notations~~**Parametric Monitoring**

~~(a) Daily visible emission notations of the abrasive blasting stack exhaust (AB-1) shall be performed during normal daylight operations. A trained employee shall record whether emissions are normal or abnormal.~~

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

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

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

~~(e) If abnormal emissions are observed, the Permittee shall take reasonable response steps. Failure to take response steps shall be considered a deviation from this permit. Section C - Response to Excursions or Exceedances contains the Permittee's obligation with regard to response to excursions and exceedances.~~**The Permittee shall record the pressure drop across the dust collection system used in conjunction with the abrasive blasting operation AB-1, at least once per day when the abrasive blasting operation is in operation. When for any one reading, the pressure drop across the dust collection unit is outside the normal range of 3.0 to 8.0 inches of water, or a normal range determined during an approved compliance test, the Permittee shall take reasonable response. Section C - Response to Excursions or Exceedances contains the Permittee's obligation with regard to the reasonable response required by this condition. Failure to take response steps shall be considered a deviation from this permit.**

D.3.7 ~~Cyclone Failure Detection~~**Broken or Failed Bag Detection**

(a) For a single compartment baghouses controlling emissions from a process operated continuously, a failed unit and the associated process shall be shut down immediately until the failed unit has been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section C- Response to Excursions or Exceedances).

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

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

~~Failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced. The emissions unit shall be shut down no later than the completion of the processing of the material in the units. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).~~

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

D.3.8 Record Keeping Requirement

(a) To document the compliance status with Condition D.3.6, the Permittee shall maintain daily records of the **daily pressure drop readings across the dust collection system controlling the abrasive blasting operation AB-1**~~visible emission notations of the abrasive blasting stack exhaust~~. The Permittee shall include in its daily record when a ~~visible emission notation~~**pressure drop reading** is not taken and the reason for the lack of a ~~visible emission notation~~**pressure drop reading**, (i.e. the process did not operate that day).

...

SECTION D.4 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

(a) One (1) natural gas-fired boiler, identified as B-1, ~~approved for construction in 2010~~**constructed in 2011**, used for process heat, with a maximum heat input capacity of 3.65 MMBtu/hr, with emissions exhausting through stack B-1.

Insignificant Activity:

(f) One (1) natural gas-fired boiler, identified as B-10, approved for construction in 2014, with a maximum heat input capacity of 8.65 MMBtu/hr, with emissions exhausting through stack B-1. [326 IAC 6.5]

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

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

D.4.1 Particulate Emission Limitations, Except Lake County [326 IAC 6.5-1-2]

Pursuant to 326 IAC 6.5-1-2(b)(3) The particulate matter emissions from the boiler stack (B-1) shall not exceed 0.01 gr/dscf.

SECTION D.5 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

(n) One (1) parts cleaning operation, consisting of six (6) fifteen (15) gallon tubs, identified as C1 through C6, and one (1) one thousand seven hundred (1,700) gallon tank, identified as C7, approved for construction in 2014, utilizing a diluted hydrofluoric and nitric acid solution and rinse, exhausting indoors.

Specifically Regulated Insignificant Activities:

(a) Degreasing operations that do not exceed 145 gallons per 12 **consecutive** months, except if subject to 325 IAC 20-6. [326 IAC 8-3-2] ~~[326 IAC 8-3-5]~~**[326 IAC 8-3-8]**

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

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

D.5.1 Volatile Organic Compounds (VOC) [326 IAC 8-3-2]

~~Pursuant to 326 IAC 8-3-2 (Cold Cleaner Operations) for cold cleaning operations after January 1, 1980, performing organic solvent degreasing operation located anywhere in the state, the owner or operator shall:~~

~~(a) equip the cleaner with a cover;~~

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

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

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

~~(e) provide a permanent, conspicuous label summarizing the operating requirements; and~~

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

Pursuant to 326 IAC 8-3-2 (Cold Cleaner Operation), the owner or operator of a cold cleaning facility (the degreasing operations that do not exceed 145 gallons per 12 months) shall:

(a) equip the cleaner with a cover;

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

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

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

(e) provide a permanent, conspicuous label summarizing the operation requirements in 326 IAC 8-3-2(a)(3), 326 IAC 8-3-2(a)(4), 326 IAC 8-3-2(a)(6), and 326 IAC 8-3-2(a)(7);

(f) store waste solvent only in closed containers;

(g) and prohibit the disposal or transfer of waste solvent in such a manner tha could allow greater than twenty percent (20%) of the waste solvent (by weight) to evaporate into the atmosphere.

Pursuant to 326 IAC 8-3-2 (Cold Cleaner Operation), the owner or operator of a cold cleaner degreaser shall ensure the following additional control equipment and operating requirements are met:

(a) Equip the degreaser with one (1) of the following control devices if the solvent is heated to a temperature of greater than forty-eight and nine-tenths (48.9) degrees Celsius (one hundred twenty (120) degrees Fahrenheit):

(1) a freeboard that attains a freeboard ratio of seventy-five hundreths (0.75) or greater;

(2) a water cover when solvent used is insoluble in, and heavier than, water;

(3) a refrigerated chiller;

(4) carbon adsorption; or

(5) an alternative system of demonstrated equivalent or better control as those outlined in 326 IAC 8-3-2(b)(A) through (D) that is approved by the department. An alternative system shall be submitted to the U.S. EPA as a SIP revision.

(b) Ensure the degreaser cover is designed so that it can be easily operated with one (1) hand if the solvent is agitated or heated.

(c) If used, solvent spray:

(1) must be a solid, fluid stream; and
(2) shall be applied at a pressure that does not cause excessive splashing.

~~D.5.2 Volatile Organic Compounds (VOC) [326 IAC 8-3-5]~~

~~(a) Pursuant to 326 IAC 8-3-5(a) (Cold Cleaner Degreaser Operation and Control), the owner or operator of a cold cleaner degreaser without remote solvent reservoirs existing as of January 1, 1980, located in Clark, Elkhart, Floyd, Lake, Marion, Porter or St. Joseph counties shall ensure that the following control equipment requirements are met:~~

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

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

~~(B) the solvent is agitated; or~~

~~(C) the solvent is heated.~~

D.5.2 Material Requirements for Cold Cleaner Degreasers [326 IAC 8-3-8]

Pursuant to 326 IAC 8-3-8 (Material Requirements for Cold Cleaner Degreasers), on and after January 1, 2015, the Permittee shall not operate a cold cleaning degreaser with a solvent that has a VOC composite partial vapor pressure that exceeds one (1) millimeter of mercury (nineteen-thousandths (0.019) pound per square inch) measured at twenty (20) degrees Celsius (sixty-eight (68) degrees Fahrenheit).

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

D.5.3 Record Keeping Requirements

(a) To document the compliance status with Condition D.5.2, on and after January 1, 2015, the Permittee shall maintain the following records for each purchase of solvent used in the cold cleaner degreasing operations. These records shall be retained on-site or accessible electronically for the most recent three (3) year period and shall be reasonably accessible for an additional two (2) year period.

(1) The name and address of the solvent supplier.

(2) The date of purchase(or invoice/bill date of contract servicer indicating service date).

(3) The type of solvent purchased.

(4) The total volume of the solvent purchased.

(5) The true vapor pressure of the solvent measured in millimeters of mercury at twenty (20) degrees Celsius (sixty-eight (68) degrees Fahrenheit).

(b) Section C - General Record Keeping Requirements contains the Permittee's obligation with regard to the records required to be maintained by this condition.

…

SECTION D.6 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:
(i) One (1) new blasting operation consisting of the following:

(1) One (1) blasting room, identified as BR, approved for construction in 2014, using glass, plastic bead, or aluminum oxide media, with a maximum abrasive usage of

five hundred (500) pounds per hour and five hundred (500) pounds of metal per hour, for a combined process weight rate of 0.5 tons per hour, exhausting to a baghouse as control which exhausts indoors. The baghouse has a 1,200 cubic feet per minute capacity.

(2) Three (3) small cabinet blasters, identified as SCB1, SCB2, and SCB3, approved for construction in 2014, using glass, plastic bead, or aluminum oxide media, with a maximum abrasive usage of ten (10) pounds per hour, each, and ninety (90) pounds of metal per hour, each, for a combined process weight rate of 100 pounds per hour, each, exhausting to a dust collector, each, as control which exhaust indoors. The dust collectors have a 800 cubic feet per minute capacity.

(3) One (1) large cabinet blaster, identified as LCB1, approved for construction in 2014, using glass, plastic bead, or aluminum oxide media, with a maximum abrasive usage of twenty-five (25) pounds per hour and seventy-five (75) pounds of metal per hour, for a combined process weight rate of 100 pounds per hour, exhausting to a dust collector as control which exhausts indoors. The dust collector has a 850 cubic feet per minute capacity.

(4) One (1) tumble blaster, identified as TB1, approved for construction in 2014, using aluminum oxide media, with a maximum abrasive usage of ten (10) pounds per hour and ninety (90) pounds of metal per hour, for a combined process weight rate of 100 pounds per hour, exhausting to a dust collector as control which exhausts indoors. The dust collector has a 800 cubic feet per minute capacity.

(5) One (1) wet blaster, identified as WB1, approved for construction in 2014, using vermiculite media, operating wet when in use, with a maximum abrasive usage of ten (10) pounds per hour and ninety (90) pounds of metal, for a combined process weight rate of 100 pounds per hour, exhausting to a baghouse a control which exhaust indoors.

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

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

D.6.1 Particulate Matter Limitations Except Lake County [326 IAC 6.5]

Pursuant to 326 IAC 6.5-1-2(a), the particulate matter (PM) emissions from the abrasive blasting operations, identified as BR, SCB1, SCB2, SCB3, LCB1, TB1, and WB1, shall not exceed 0.03 grains per dry standard cubic foot (dscf), each.

D.6.2 Preventive Maintenance Plan [326 IAC 2-7-5(12)]

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

Compliance Determination Requirements

D.6.3 Particulate Control

(a) In order to comply with Condition D.6.1, the control devices associated with the abrasive blasting operations BR, SCB1, SCB2, SCB3, LCB1, and TB1 shall be in operation at all times that BR, SCB1, SCB2, SCB3, LCB1, and TB1 are in operation, respectively.

(c) In the event that bag failure is observed in a multi-compartment baghouse, if operations will continue for ten (10) days or more after the failure is observed before

the failed units will be repaired or replaced, the Permittee shall promptly notify the IDEM, OAQ of the expected date the failed units will be repaired or replaced. The notification shall also include the status of the applicable compliance monitoring parameters with respect to normal, and the results of any response actions taken up to the time of notification.

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

D.6.4 Broken or Failed Bag Detection

(a) For a single compartment baghouses controlling emissions from a process operated continuously, a failed unit and the associated process shall be shut down immediately until the failed unit has been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section C- Response to Excursions or Exceedances).

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

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

D.6.5 Baghouse and Dust Collector Inspections

(a) An inspection shall be performed semi-annually on the baghouse associated with the abrasive blasting room BR at all times that BR is in operation.

(b) An inspection shall be performed semi-annually on the dust collectors associated with SCB1, SCB2, SCB3, LCB1, and TB1 at all times these units are in operation.

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

D.6.6 Record Keeping Requirements

(a) To document the compliance status with Condition D.6.5, the Permittee shall maintain records of the results of the inspections required under Condition D.6.5.

(b) Section C - General Record Keeping Requirements contains the Permittee's obligation with regard to the records required by this condition.

...

SECTION E.1 National Emission Standards for Hazardous Air Pollutants for Paint Stripping and Miscellaneous Surface Operations at areas source [40 CFR Part 63, Subpart HHHHHH]

Emission Unit Description:

~~One (1) CARC coating line, approved for construction in 2010, with particulate emissions controlled by dry filters, consisting of the following units:~~

~~(1) Four (4) spray booths, identified as (EU-01 through EU-04), with a maximum capacity of 50 units per hour each, exhausting to stacks EU-01 through EU-04, respectively;~~

~~(2) One (1) touch-up spray booth, identified as EU-05, with a maximum capacity of 10 units per hour, exhausting to stack EU-05 and~~

(a) One (1) CARC coating line, constructed in 2011, with particulate emissions controlled by dry filters, consisting of the following units:

(4) Four (4) spray booths, identified as (EU-01 through EU-04), with a maximum capacity of 50 units per hour each, exhausting to stacks EU-01 through EU-04, respectively;

(5) One (1) touch-up spray booth, identified as EU-05, with a maximum capacity of 10 units per hour, exhausting to stack EU-05 and

(6) One (1) burn-off oven, identified as BO-1, approved for construction in 2011, with a maximum heat input capacity of 0.80 MMBtu/hr, with emissions exhausting through stack B0-1.

(b) Two (2) natural gas-fired cure ovens, identified as CO-1 and CO-2, constructed in 2011, with maximum heat input capacities of 3.0 MMBtu/hr, each, with emissions exhausting through stacks CO-1 and CO-2, respectively.

(j) One (1) spray booth, identified as EU-6, approved for construction in 2014, utilizing a high volume, low pressure (HVLP) applicator, with a maximum capacity of 80 metal units per hour, using dry filters to control particulate overspray, and exhausting to stack EU6S.

The spray booth EU-6 is considered a new affected source under 40 CFR 63, Subpart HHHHHH.

(k) One (1) spray booth, identified as EU-7, approved for construction in 2014, utilizing a high volume, low pressure (HVLP) applicator, with a maximum capacity of 80 metal units per hour, using dry filters to control particulate overspray, and exhausting to stack EU7S.

The spray booth EU-7 is considered a new affected source under 40 CFR 63, Subpart HHHHHH.

(l) One (1) spray booth, identified as EU-8, approved for construction in 2014, utilizing a high volume, low pressure (HVLP) applicator, with a maximum capacity of 80 metal units per hour, using dry filters to control particulate overspray, and exhausting to stack EU8S.

The spray booth EU-8 is considered a new affected source under 40 CFR 63, Subpart HHHHHH.

(m) One (1) spray booth, identified as EU-9, approved for construction in 2014, utilizing a high volume, low pressure (HVLP) applicator, with a maximum capacity of 80 metal units per hour, using dry filters to control particulate overspray, and exhausting to stack EU9S.

The spray booth EU-9 is considered a new affected source under 40 CFR 63, Subpart HHHHHH.

(n) One (1) spray booth, identified as EU-10, approved for construction in 2014, utilizing a high volume, low pressure (HVLP) applicator, with a maximum capacity of 80 metal units per hour, using dry filters to control particulate overspray, and exhausting to stack EU10S.

The spray booth EU-10 is considered a new affected source under 40 CFR 63, Subpart HHHHHH.

(o) One (1) spray booth, identified as EU-11, approved for construction in 2014, utilizing a high volume, low pressure (HVLP) applicator, with a maximum capacity of 80 metal units per hour, using dry filters to control particulate overspray, and exhausting to stack EU11S.

The spray booth EU-11 is considered a new affected source under 40 CFR 63, Subpart HHHHHH.

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

...

E.1.1 General Provisions Relating to National Emission Standards for Hazardous Air Pollutants under 40 CFR Part 63 [326 IAC 20-1] [40 CFR Part 63, Subpart A]

(a) Pursuant to 40 CFR 63.11174, the Permittee shall comply with the provisions of 40 CFR Part 63, Subpart A – General Provisions, which are incorporated by reference as 326 IAC 20-1-1 for the surface coating operations, spray booths EU-01 through EU-04, ~~and~~ touch-up spray booth EU-05**, and spray booths EU-6 through EU-11,** as specified in Table 1 of 40 CFR 63, Subpart HHHHHH in accordance with schedule in 40 CFR 63 Subpart HHHHHH.

E.1.2 National Emission Standards for Hazardous Air Pollutants for Paint Stripping and Miscellaneous Surface Operations at areas source [40 CFR Part 63, Subpart HHHHHH]

The Permittee shall comply with the following provisions of 40 CFR 63, Subpart HHHHHH (National Emission Standards for Hazardous Air Pollutants for Paint Stripping and Miscellaneous Surface Operations at areas source), included as Attachment A, for the surface coating operation, spray booths EU-01 through EU-04, ~~and~~ touch-up spray booth EU-05**, and spray booths EU-6 through EU-11**:

(1) 40 CFR 63.11169(c)
(2) 40 CFR 63.11170(a)(3), (b)
(3) 40 CFR 63.11171(a), (b), (c)
(4) 40 CFR 63.11172(a)(2)
(5) 40 CFR 63.11173(f),(g(1), (g)(3)
(6) 40 CFR 63.~~11173~~**11174**(a)
(7) 40 CFR 63.11175(a)
(8) 40 CFR 63.11176(a)
(9) 40 CFR 63.11177
(10) 40 CFR 63.11178
(11) 40 CFR 63.11179
(12) 40 CFR 63.11180
(13) Table 1

SECTION E.2 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

Insignificant Activity:

(e) One (1) manganese dipping line, consisting of twenty-two (22) tanks, approved for construction in 2014, with varying chemicals used in each tank, exhausting indoors.

The manganese dipping line is considered a new affected source under 40 CFR 63, Subpart WWWWWW.

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

National Emission Standards for Hazardous Air Pollutants [326 IAC 20] [40 CFR Part 63]

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

The provisions of 40 CFR Part 63, Subpart A – General Provisions, which are incorporated by reference as 326 IAC 20-1-1, apply to the facilities described in this section except when

otherwise specified in 40 CFR Part 63, Subpart WWWWWW.

E.2.2 National Emission Standards for Hazardous Air Pollutants for Area Source Standards for Plating and Polishing Operations [40 CFR 63, Subpart WWWWWW]

The Permittee which engages in plating which has emissions of compounds of one or more plating and polishing metal HAP shall comply with the following provisions of 40 CFR Part 63, Subpart WWWWWW.

(1) 40 CFR 63.11504
(2) 40 CFR 63.11505(a)(1) and (c)
(3) 40 CFR 63.11506(c)
(4) 40 CFR 63.11507(g)
(5) 40 CFR 63.11508
(6) 40 CFR 63.11509
(7) 40 CFR 63.11510
(8) 40 CFR 63.11511
(9) 40 CFR 63.11512
Table 1 to Subpart WWWWWW

The entire text of 40 CFR 63, Subpart WWWWWW is included as Attachment B of this permit.

...

Part 70 Quarterly Report

Source Name:	Imagineering Enterprises, Inc
Source Address:	3722 Foundation Court, South Bend, Indiana 46628
Part 70 Permit No.:	141-29765-00574
Facility:	CARC Coating Line **and Spray Booths EU-6 through EU-11**
Parameter:	Chrome Emissions **(Single HAP)**
Limit:	Shall not exceed **9.9** ~~10~~ tons per 12 consecutive month period with compliance determined at the end of each month

...

Part 70 Quarterly Report

Source Name:	Imagineering Enterprises, Inc
Source Address:	3722 Foundation Court, South Bend, Indiana 46628
Part 70 Permit No.:	141-29765-00574
Facility:	CARC Coating Line **and Spray Booths EU-6 through EU-11**
Parameter:	Toluene Emissions **(Single HAP)**
Limit:	Shall not exceed **9.9** ~~10~~ tons per 12 consecutive month period with compliance determined at the end of each month

...

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

Part 70 Quarterly Report

Source Name:	**Imagineering Enterprises, Inc**
Source Address:	**3722 Foundation Court, South Bend, Indiana 46628**
Part 70 Permit No.:	**141-29765-00574**
Facility:	**CARC Coating Line and Spray Booths EU-6 through EU-11**
Parameter:	**Xylene Emissions (Single HAP)**
Limit:	**Shall not exceed 9.9 tons per 12 consecutive month period with compliance determined at the end of each month**

YEAR: _____

Month	This Month (tons)	Previous 11 Months (tons)	12-Month Period (tons)

☐ **No deviation occurred in this quarter.**

☐ **Deviations occurred in this quarter.**
Deviation has been reported on: _____

Submitted By: _____

Title/Position: _____

Signature: _____

Date: _____

Phone: _____

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

Part 70 Quarterly Report

Source Name: Imagineering Enterprises, Inc
Source Address: 3722 Foundation Court, South Bend, Indiana 46628
Part 70 Permit No.: 141-29765-00574
Facility: CARC Coating Line and Spray Booths EU-6 through EU-11
Parameter: Ethyl Benzene Emissions (Single HAP)
Limit: Shall not exceed 9.9 tons per 12 consecutive month period with compliance determined at the end of each month

YEAR: _____

Month	This Month (tons)	Previous 11 Months (tons)	12-Month Period (tons)

☐ **No deviation occurred in this quarter.**

☐ **Deviations occurred in this quarter.**
Deviation has been reported on: _____

Submitted By: _____

Title/Position: _____

Signature: _____

Date: _____

Phone: _____

Part 70 Quarterly Report

Source Name: Imagineering Enterprises, Inc
Source Address: 3722 Foundation Court, South Bend, Indiana 46628
Part 70 Permit No.: 141-29765-00574
Facility: CARC Coating Line **and Spray Booths EU-6 through EU-11**
Parameter: Total HAPs emissions
Limit: Shall not exceed **13.5** ~~25~~ tons per 12 consecutive month period with compliance determined at the end of each month

...

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

Part 70 Quarterly Report

Source Name: **Imagineering Enterprises, Inc**
Source Address: **3722 Foundation Court, South Bend, Indiana 46628**
Part 70 Permit No.: **141-29765-00574**
Facility: **Spray Booth EU-6**
Parameter: **Daily Total VOC Emissions**
Limit: **The total VOC input shall be less than fifteen (15.0) pounds per day, with compliance determined at the end of each day.**

Month: _____ **Year:** _____

Day		Day	
1		17	
2		18	
3		19	
4		20	
5		21	
6		22	

7		**23**	
8		**24**	
9		**25**	
10		**26**	
11		**27**	
12		**28**	
13		**29**	
14		**30**	
15		**31**	
16			

☐ **No deviation occurred in this quarter.**

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

Submitted by: _____
Title / Position:_____
Signature: _____
Date: _____
Phone: _____

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

Part 70 Quarterly Report

Source Name: **Imagineering Enterprises, Inc**
Source Address: **3722 Foundation Court, South Bend, Indiana 46628**
Part 70 Permit No.: **141-29765-00574**
Facility: **Spray Booth EU-7**
Parameter: **Daily Total VOC Emissions**
Limit: **The total VOC input shall be less than fifteen (15.0) pounds per day, with compliance determined at the end of each day.**

Month: _____ **Year:** _____

Day		Day	
1		**17**	
2		**18**	
3		**19**	
4		**20**	
5		**21**	
6		**22**	
7		**23**	

8		**24**	
9		**25**	
10		**26**	
11		**27**	
12		**28**	
13		**29**	
14		**30**	
15		**31**	
16			

☐ **No deviation occurred in this quarter.**

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

Submitted by: _____
Title / Position:_____
Signature: _____
Date: _____
Phone: _____

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

Part 70 Quarterly Report

Source Name: **Imagineering Enterprises, Inc**
Source Address: **3722 Foundation Court, South Bend, Indiana 46628**
Part 70 Permit No.: **141-29765-00574**
Facility: **Spray Booth EU-8**
Parameter: **Daily Total VOC Emissions**
Limit: **The total VOC input shall be less than fifteen (15.0) pounds per day, with compliance determined at the end of each day.**

Month: _____ **Year:** _____

Day		Day	
1		**17**	
2		**18**	
3		**19**	
4		**20**	
5		**21**	
6		**22**	
7		**23**	
8		**24**	
9		**25**	

10		**26**	
11		**27**	
12		**28**	
13		**29**	
14		**30**	
15		**31**	
16			

☐ **No deviation occurred in this quarter.**

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

Submitted by: _____
Title / Position:_____
Signature: _____
Date: _____
Phone: _____

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

Part 70 Quarterly Report

Source Name: **Imagineering Enterprises, Inc**
Source Address: **3722 Foundation Court, South Bend, Indiana 46628**
Part 70 Permit No.: **141-29765-00574**
Facility: **Spray Booth EU-9**
Parameter: **Daily Total VOC Emissions**
Limit: **The total VOC input shall be less than fifteen (15.0) pounds per day, with compliance determined at the end of each day.**

Month: _____ **Year:** _____

Day		Day	
1		17	
2		18	
3		19	
4		20	
5		21	
6		22	
7		23	
8		24	
9		25	
10		26	
11		27	
12		28	
13		29	
14		30	
15		31	
16			

☐ **No deviation occurred in this quarter.**

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

Submitted by: _____
Title / Position:_____
Signature: _____
Date: _____
Phone: _____

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

Part 70 Quarterly Report

Source Name: **Imagineering Enterprises, Inc**
Source Address: **3722 Foundation Court, South Bend, Indiana 46628**
Part 70 Permit No.: **141-29765-00574**
Facility: **Spray Booth EU-10**
Parameter: **Daily Total VOC Emissions**
Limit: **The total VOC input shall be less than fifteen (15.0) pounds per day, with compliance determined at the end of each day.**

Month: _____ **Year:** _____

Day		Day	
1		17	
2		18	
3		19	
4		20	
5		21	
6		22	
7		23	
8		24	
9		25	
10		26	
11		27	
12		28	
13		29	
14		30	
15		31	
16			

☐ **No deviation occurred in this quarter.**

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

Submitted by: _____
Title / Position:_____
Signature: _____
Date: _____
Phone: _____

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

Part 70 Quarterly Report

Source Name: **Imagineering Enterprises, Inc**
Source Address: **3722 Foundation Court, South Bend, Indiana 46628**
Part 70 Permit No.: **141-29765-00574**
Facility: **Spray Booth EU-11**
Parameter: **Daily Total VOC Emissions**
Limit: **The total VOC input shall be less than fifteen (15.0) pounds per day, with compliance determined at the end of each day.**

Month: _____ **Year:** _____

Day		Day	
1		17	
2		18	
3		19	
4		20	
5		21	
6		22	
7		23	
8		24	
9		25	
10		26	
11		27	
12		28	
13		29	
14		30	
15		31	
16			

☐ **No deviation occurred in this quarter.**

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

Submitted by: _____
Title / Position:_____
Signature: _____
Date: _____
Phone: _____

...

Upon further review, IDEM, OAQ has decided to make the following changes to the permit. Deleted language appears as ~~strikethrough~~ text and new language appears as **bold** text.

1. IDEM has added descriptive language to the SIC code in Section A.1.

2. On October 27, 2010, the Indiana Air Pollution Control Board issued revisions to 326 IAC 2. These revisions resulted in changes to the rule sites listed in the permit. These changes are not changes to the underlining provisions. The change is only to site of these rules in Section A - General Information, Section A - Emission Units and Pollution Control Equipment Summary, Section A - Specifically Regulated Insignificant Activities, Section B - Preventative Maintenance Plan, Section B - Emergency Provisions, Section B - Operational Flexibility, Section C - Risk Management Plan, the Facility Descriptions, and Section D - Preventative Maintenance Plan.

3. IDEM, OAQ has clarified the Permittee's responsibility with regards to record keeping.

4. IDEM, OAQ has decided to clarify the Permittee's responsibility under CAM.

5. IDEM, OAQ has clarified the interaction of the Quarterly Deviation and Compliance Monitoring Report and the Emergency Provisions.

6. On November 3, 2011, the Indiana Air Pollution Control Board issued a revision to 326 IAC 2. The revision resulted in a change to the rule site of the “responsible official” definition.

7. IDEM clarified the following condition to indicate that the analog instrument must be capable of measuring the parameters outside the normal range.

8. IDEM is changing the Section C Compliance Monitoring Condition to clearly describe when new monitoring for new and existing units must begin.

9. IDEM is correcting the citation in the title of Condition E.1.2 because it references Subpart MMMM when it should reference Subpart HHHHHH.

...

A.1 General Information [326 IAC 2-7-4(c)][326 IAC 2-7-5~~(15)~~**(14)**][326 IAC 2-7-1(22)]

...

SIC Code: 3479 **(Metal Coating and Allied Services)**

...

A.2 Emission Units and Pollution Control Equipment Summary
[326 IAC 2-7-4(c)(3)][326 IAC 2-7-5~~(15)~~**(14)**]

...

A.3 Specifically Regulated Insignificant Activities
[326 IAC 2-7-1(21)][326 IAC 2-7-4(c)][326 IAC 2-7-5~~(15)~~**(14)**]

...

B.10 Certification [326 IAC 2-7-4(f)][326 IAC 2-7-6(1)][326 IAC 2-7-5(3)(C)]

(a) A certification required by this permit meets the requirements of 326 IAC 2-7-6(1) if:

(1) it contains a certification by a "responsible official" as defined by 326 IAC 2-7-1~~(34)~~**(35)**, and

...

(c) A "responsible official" is defined at 326 IAC 2-7-1~~(34)~~**(35)**.

...

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

...

The submittal by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1~~(34)~~**(35)**.

B.12 Preventive Maintenance Plan [326 IAC 2-7-5~~(1),(3) and (13)~~**(12)**][~~326 IAC 2-7-6(1) and (6)~~][326 IAC 1-6-3]

...

The PMP extension notification does not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1~~(34)~~**(35)**.

The Permittee shall implement the PMPs.

(b) A copy of the PMPs shall be submitted to IDEM, OAQ upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or is the primary contributor to an exceedance of any limitation on emissions. The PMPs and their submittal do not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1~~(34)~~**(35)**.

...

B.13 Emergency Provisions [326 IAC 2-7-16]

...

The notification which shall be submitted by the Permittee does not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1~~(34)~~**(35)**.

...

(e) The Permittee seeking to establish the occurrence of an emergency shall make records available upon request to ensure that failure to implement a PMP did not cause or contribute to an exceedance of any limitations on emissions. However, IDEM, OAQ may require that the Preventive Maintenance Plans required under 326 IAC 2-7-4(c)~~(9)~~**(8)** be revised in response to an emergency.

...

B.17 Permit Modification, Reopening, Revocation and Reissuance, or Termination [326 IAC 2-7-5(6)(C)][326 IAC 2-7-8(a)][326 IAC 2-7-9]

(a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a Part 70 Operating Permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any condition of this permit. [326 IAC 2-7-5(6)(C)] The notification by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1~~(34)~~**(35)**.

...

B.18 Permit Renewal [326 IAC 2-7-3][326 IAC 2-7-4][326 IAC 2-7-8(e)]

(a) The application for renewal shall be submitted using the application form or forms prescribed by IDEM, OAQ and shall include the information specified in 326 IAC 2-7-4. Such information shall be included in the application for each emission unit at this source, except those emission units included on the trivial or insignificant activities list contained in 326 IAC 2-7-1(21) and 326 IAC 2-7-1(40). The renewal application does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1~~(34)~~**(35)**.

...

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

...

Any such application does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1~~(34)~~**(35)**.

...

B.21 Operational Flexibility [326 IAC 2-7-20][326 IAC 2-7-10.5]

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

...

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

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

...

The notification which shall be submitted is not considered an application form, report or compliance certification. Therefore, the notification by the Permittee does not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1~~(34)~~**(35)**.

...

B.24 Transfer of Ownership or Operational Control [326 IAC 2-7-11]

...

Any such application does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1~~(34)~~**(35)**.

...

C.5 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M]

...

The notice shall include a signed certification from the owner or operator that the information provided in this notification is correct and that only Indiana licensed workers and project supervisors will be used to implement the asbestos removal project. The notifications do not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1~~(34)~~**(35)**.

...

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

...

no later than thirty-five (35) days prior to the intended test date. The protocol submitted by the Permittee does not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1~~(34)~~**(35)**.

(b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14) days prior to the actual test date. The notification submitted by the Permittee does not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1~~(34)~~**(35)**.

...

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

C.8 Compliance Monitoring [326 IAC 2-7-5(3)][326 IAC 2-7-6(1)] **[40 CFR 64] [326 IAC 3-8]**

(a) For new units:

Unless otherwise specified in the approval for the new emission unit(s), compliance monitoring for new emission units shall be implemented on and after the date of initial start-up.

(b) For existing units:

Unless otherwise specified in this permit, for all monitoring requirements not already legally required, the Permittee shall be allowed up to ninety (90) days from the date of permit issuance ~~or of initial start-up, whichever is later,~~ to begin such monitoring. If due to circumstances beyond the Permittee's control, any monitoring equipment required by this permit cannot be installed and operated no later than ninety (90) days after permit issuance ~~or the date of initial startup, whichever is later,~~ the Permittee may extend the compliance schedule related to the equipment for an additional ninety (90) days provided the Permittee notifies:

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

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

The notification which shall be submitted by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1~~(34)~~**(35)**.

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

(c) For monitoring required by CAM, at all times, the Permittee shall maintain the monitoring, including but not limited to, maintaining necessary parts for routine repairs of the monitoring equipment.

(d) For monitoring required by CAM, except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments), the Permittee shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the pollutant-specific emissions unit is operating. Data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities shall not be used for purposes of this part, including data averages and calculations, or fulfilling a minimum data availability requirement, if applicable. The owner or operator shall use all the data collected during all other periods in assessing the operation of the control device and associated control system. A monitoring malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring to provide valid data. Monitoring failures that are caused in part by poor maintenance or careless operation are not malfunctions.

C.9 Instrument Specifications [326 IAC 2-1.1-11] [326 IAC 2-7-5(3)] [326 IAC 2-7-6(1)]

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

...

C.10 Emergency Reduction Plans [326 IAC 1-5-2] [326 IAC 1-5-3]

....

The ERP does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1~~(34)~~**(35)**.

...

C.11 Risk Management Plan [326 IAC 2-7-5~~(12)~~**(11)**] [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.12 Response to Excursions or Exceedances **[40 CFR 64] [326 IAC 2-7-5]** [326 IAC 2-7-5] [326 IAC 2-7-6]

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

(a) The Permittee shall take reasonable response steps to restore operation of the emissions unit (including any control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing excess emissions.

(b) The response shall include minimizing the period of any startup, shutdown or malfunction. The response may include, but is not limited to, the following:

(1) initial inspection and evaluation;

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

(3) any necessary follow-up actions to return operation to normal or usual manner of operation.

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

(1) monitoring results;

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

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

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

(e) The Permittee shall record the reasonable response steps taken.

(II)

(a) CAM *Response to excursions or exceedances.*

(1) Upon detecting an excursion or exceedance, subject to CAM, the Permittee shall restore operation of the pollutant-specific emissions unit (including the control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions. The response shall include minimizing

the period of any startup, shutdown or malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). Such actions may include initial inspection and evaluation, recording that operations returned to normal without operator action (such as through response by a computerized distribution control system), or any necessary follow-up actions to return operation to within the indicator range, designated condition, or below the applicable emission limitation or standard, as applicable.

(2) Determination of whether the Permittee has used acceptable procedures in response to an excursion or exceedance will be based on information available, which may include but is not limited to, monitoring results, review of operation and maintenance procedures and records, and inspection of the control device, associated capture system, and the process.

(b) If the Permittee identifies a failure to achieve compliance with an emission limitation, subject to CAM, or standard, subject to CAM, for which the approved monitoring did not provide an indication of an excursion or exceedance while providing valid data, or the results of compliance or performance testing document a need to modify the existing indicator ranges or designated conditions, the Permittee shall promptly notify the IDEM, OAQ and, if necessary, submit a proposed significant permit modification to this permit to address the necessary monitoring changes. Such a modification may include, but is not limited to, reestablishing indicator ranges or designated conditions, modifying the frequency of conducting monitoring and collecting data, or the monitoring of additional parameters.

(c) Based on the results of a determination made under paragraph (II)(a)(2) of this condition, the EPA or IDEM, OAQ may require the Permittee to develop and implement a QIP. The Permittee shall develop and implement a QIP if notified to in writing by the EPA or IDEM, OAQ.

(d) Elements of a QIP:
The Permittee shall maintain a written QIP, if required, and have it available for inspection. The plan shall conform to 40 CFR 64.8 b (2).

(e) If a QIP is required, the Permittee shall develop and implement a QIP as expeditiously as practicable and shall notify the IDEM, OAQ if the period for completing the improvements contained in the QIP exceeds 180 days from the date on which the need to implement the QIP was determined.

(f) Following implementation of a QIP, upon any subsequent determination pursuant to paragraph (II)(a)(2) of this condition the EPA or the IDEM, OAQ may require that the Permittee make reasonable changes to the QIP if the QIP is found to have:

(1) Failed to address the cause of the control device performance problems; or

(2) Failed to provide adequate procedures for correcting control device performance problems as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions.

(g) Implementation of a QIP shall not excuse the Permittee from compliance with any existing emission limitation or standard, or any existing

monitoring, testing, reporting or recordkeeping requirement that may apply under federal, state, or local law, or any other applicable requirements under the Act.

(h) ***CAM recordkeeping requirements.***

(1) The Permittee shall maintain records of monitoring data, monitor performance data, corrective actions taken, any written quality improvement plan required pursuant to paragraph (II)(a)(2) of this condition and any activities undertaken to implement a quality improvement plan, and other supporting information required to be maintained under this condition (such as data used to document the adequacy of monitoring, or records of monitoring maintenance or corrective actions). Section C - General Record Keeping Requirements of this permit contains the Permittee's obligations with regard to the records required by this condition.

(2) Instead of paper records, the owner or operator may maintain records on alternative media, such as microfilm, computer files, magnetic tape disks, or microfiche, provided that the use of such alternative media allows for expeditious inspection and review, and does not conflict with other applicable recordkeeping requirements.

C.13 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-7-5][326 IAC 2-7-6]

...

The response action documents submitted pursuant to this condition do require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1~~(34)~~**(35)**.

C.14 Emission Statement [326 IAC 2-7-5(3)(C)(iii)] [326 IAC 2-7-5(7)] [326 IAC 2-7-19(c)] [326 IAC 2-6]

...

The emission statement does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1~~(34)~~**(35)**.

C.15 General Record Keeping Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-6]

(a) Records of all required monitoring data, reports and support information required by this permit shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. **Support information includes the following, where applicable:**

(AA) All calibration and maintenance records.

(BB) All original strip chart recordings for continuous monitoring instrumentation.

(CC) Copies of all reports required by the Part 70 permit.

Records of required monitoring information include the following, where applicable:

(AA) The date, place, as defined in this permit, and time of sampling or measurements.

(BB) The dates analyses were performed.

(CC) The company or entity that performed the analyses.

(DD) The analytical techniques or methods used.

(EE) The results of such analyses.

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

...

C.16 General Reporting Requirements [326 IAC 2-7-5(3)(C)] [326 IAC 2-1.1-11] **[40 CFR 64][326 IAC 3-8]**

(a) The Permittee shall submit the attached Quarterly Deviation and Compliance Monitoring Report or its equivalent. **Proper notice submittal under Section B - Emergency Provisions satisfies the reporting requirements of this paragraph.** Any deviation from permit requirements, the date(s) of each deviation, the cause of the deviation, and the response steps taken must be reported except that a deviation required to be reported pursuant to an applicable requirement that exists independent of this permit, shall be reported according to the schedule stated in the applicable requirement and does not need to be included in this report. This report shall be submitted not later than thirty (30) days after the end of the reporting period. The Quarterly Deviation and Compliance Monitoring Report shall include a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1~~(34)~~**(35)**. A deviation is an exceedance of a permit limitation or a failure to comply with a requirement of the permit.

On and after the date by which the Permittee must use monitoring that meets the requirements of 40 CFR Part 64 and 326 IAC 3-8, the Permittee shall submit CAM reports to the IDEM, OAQ.

A report for monitoring under 40 CFR Part 64 and 326 IAC 3-8 shall include, at a minimum, the information required under paragraph (a) of this condition and the following information, as applicable:

(1) Summary information on the number, duration and cause (including unknown cause, if applicable) of excursions or exceedances, as applicable, and the corrective actions taken;

(2) Summary information on the number, duration and cause (including unknown cause, if applicable) for monitor downtime incidents (other than downtime associated with zero and span or other daily calibration checks, if applicable); and

(3) A description of the actions taken to implement a QIP during the reporting period as specified in Section C-Response to Excursions or Exceedances. Upon completion of a QIP, the owner or operator shall include in the next summary report documentation that the implementation of the plan has been completed and reduced the likelihood of similar levels of excursions or exceedances occurring.

The Permittee may combine the Quarterly Deviation and Compliance Monitoring Report and a report pursuant to 40 CFR 64 and 326 IAC 3-8.

...

D.2.3 Preventive Maintenance Plan [326 IAC 2-7-5~~(13)~~**(12)**]

...

D.2.9 Reporting Requirements

A quarterly summary of the information to document the compliance status with Conditions D.2.4 shall be submitted not later than thirty (30) days after the end of the quarter being reported. Section C - General Reporting contains the Permittee's obligation with regard to the reporting required by this condition. The report submitted by the Permittee does not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1~~(34)~~**(35)**.

...

D.3.3 Preventive Maintenance Plan [326 IAC 2-7-5~~(13)~~**(12)**]

...

E.1.2 National Emission Standards for Hazardous Air Pollutants for Paint Stripping and Miscellaneous Surface Operations at areas source [40 CFR Part 63, Subpart ~~MMMM~~**HHHHHH**]

...

QUARTERLY DEVIATION AND COMPLIANCE MONITORING REPORT

...

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

...

Conclusion and Recommendation

The construction of this proposed modification shall be subject to the conditions of the attached proposed Part 70 Significant Source Modification No. 141-33398-00574 and Significant Permit Modification No. 141-33450-00574. The staff recommends to the Commissioner that this Part 70 Significant Source and Significant Permit Modification be approved.

IDEM Contact

(a) Questions regarding this proposed permit can be directed to Brandon Miller at the Indiana Department Environmental Management, Office of Air Quality, Permits Branch, 100 North Senate Avenue, MC 61-53 IGCN 1003, Indianapolis, Indiana 46204-2251 or by telephone at (317) 234-5373 or toll free at 1-800-451-6027 extension 4-5373.

(b) A copy of the findings is available on the Internet at: http://www.in.gov/ai/appfiles/idem-caats/

(c) For additional information about air permits and how the public and interested parties can participate, refer to the IDEM's Guide for Citizen Participation and Permit Guide on the Internet at: www.idem.in.gov

Indiana Department of Environmental Management
Office of Air Quality
Appendix A – Emission Calculations
Technical Support Document (TSD)

Company Name: Imagineering Enterprises, Inc.
Address City IN Zip: 3722 Foundation Court, South Bend, IN 46628
County: St. Joseph
Significant Permit Modification No: 141-33450-00574
Significant Source Modification No: 141-33398-00574
Permit Reviewer: Brandon Miller
Date: January 21, 2014

Summary of Potential to Emit

The tables below summarize the potential to emit calculations submitted by Imagineering Enterprises. The subsequent pages of this document contain the calculations provided by Imagineering Enterprises. IDEM has reviewed these calculations and verified their accuracy.

	Uncontrolled Potential To Emit (ton/yr)															
Process / Emission Unit	**PM**	**PM_{10}**	**$PM_{2.5}$**	**SO_2**	**NO_X**	**VOC**	**CO**	**GHG as CO2e**	**HAP Cobalt**	**Chrome**	**Toluene**	**Ethyl Benzene**	**Hexane**	**Xylene**	**HF**	**Total HAPs**
Passivation and Etching Tanks	1.84	1.84	1.84	0	5.73	1.79	0	0	0	0	0	0	0	0	0	0.00
CARC Coating Line	119.30	119.30	119.30	0	0	202.25	0	0	6.15	11.42	19.78	0.29	0	0	0	37.64
Blasting (AB-1)	135.15	135.15	135.15	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Powder Coating (PP-1)	0.04	0.04	0.04	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Cure Ovens	0.05	0.19	0.19	0.02	2.50	0.14	2.10		0	0	0	0	0.05	0	0	0.05
Boiler (B-1)	0.03	0.12	0.12	0.01	1.52	0.08	1.28	6,945	0	0	0	0	0.03	0	0	0.03
Space Heaters and Burn Off Oven	0.03	0.13	0.13	0.01	1.73	0.09	1.45		0	0	0	0	0.03	0	0	0.03
Blasting Room and Cabinets	102.36	71.65	71.65	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Paint Booths (EU-6 to EU-11)	1.04	1.04	1.04	0	0	24.9	0	0	0	0	30.27	20.81	0	52.03	0	72.85
Cleaning operations	0	0	0	0	3.12	25.53	0	0	0	0	0	0	0	0	5.47	5.47
Air Makeup and B-10	0.21	0.85	0.85	0.07	11.15	0.61	9.36	13,458	0	0	0	0	0.20	0	0	0.20
Dipping Lines	1.73	1.73	1.73	0	0	0.01	0	0	0	4.6E-03	0	0	0	0	0	1.92
Chem Line	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.01	3.33
Totals:	**361.79**	**332.04**	**332.04**	**0.10**	**25.75**	**255.42**	**14.20**	**20,403**	**6.15**	**11.43**	**50.05**	**21.10**	**0.30**	**52.03**	**6.48**	**121.52**

	Limited Potential To Emit (ton/yr)															
Process / Emission Unit	**PM**	**PM_{10}**	**$PM_{2.5}$**	**SO_2**	**NO_X**	**VOC**	**CO**	**GHG as CO2e**	**HAP Cobalt**	**Chrome**	**Toluene**	**Ethyl Benzene**	**Hexane**	**Xylene**	**HF**	**Total HAPs**
Passivation and Etching Tanks	1.84	1.84	1.84	0	5.73	1.79	0	0	0	0	0	0	0	0	0	0
CARC Coating Line	5.97	5.97	5.97	0	0	202.25	0	0	<13.5[2]							
Blasting (AB-1)	42.57	42.57	42.57	0	0	0	0	0	0	0	0	0	0	0	0	0
Powder Coating (PP-1)	3.75E-03	3.75E-03	3.75E-03	0	0	0	0	0	0	0	0	0	0	0	0	0
Cure Ovens	0.05	0.19	0.19	0.02	2.50	0.14	2.10		0	0	0	0	0.05	0	0	0.05
Boiler (B-1)	0.03	0.12	0.12	0.01	1.52	0.08	1.28	6,945	0	0	0	0	0.03	0	0	0.03
Space Heaters and Burn Off Oven	0.03	0.13	0.13	0.01	1.73	0.09	1.45		0	0	0	0	0.03	0	0	0.03
Blasting Room and Cabinets	102.36	71.65	71.65	0	0	0	0	0	0	0	0	0	0	0	0	0
Paint Booths (EU-6 to EU-11)	1.04	1.04	1.04	0	0	16.43	0	0	0	0	<9.9[1]	<9.9[1]	0	<9.9	0	<13.5[2]
Cleaning operations	0	0	0	0	3.12	25.53	0	0	0	0	0	0	0	0	5.47	5.47
Air Makeup and B-10	0.21	0.85	0.85	0.07	11.15	0.61	9.36	13,458	0	0	0	0	0.20	0	0	0.20
Dipping Lines	1.73	1.73	1.73	0	0	0.01	0.00	0.00	0	4.6E-03	0	0	0	0	0	1.92
Chem Line	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.01	3.33
Totals:	**155.84**	**126.09**	**126.09**	**0.10**	**25.75**	**246.94**	**14.20**	**20,403**	**6.15**	**<10**	**<10**	**<10**	**0.30**	**<10**	**6.48**	**24.53**

1 The CARC coating line and Paint Booths (EU-6 through EU-11) have a combined limit of less than 9.9 tons/year, for each HAP, in order to render 326 IAC 2-4.1 (Major Sources of HAPs) not applicable.
2 The CARC coating line and Paint Booths (EU-6 through EU-11) have a combined limit of less than 13.5 tons/year for total HAPs in order to render 326 IAC 2-4.1 (Major Sources of HAPs) not applicable.

Appendix A: Emissions Calculations
Summary of Modification Prior to Limitations

Company Name: Imagineering Enterprises, Inc.
Address City IN Zip: 3722 Foundation Court, South Bend, IN 46628
County: St. Joseph
Significant Permit Modification No: 141-33450-00574
Significant Source Modification No: 141-33398-00574
Permit Reviewer: Brandon Miller
Date: January 21, 2014

Modified Emission Units

	Uncontrolled Potential To Emit (ton/yr)															
Process / Emission Unit	**PM**	**PM_{10}**	**$PM_{2.5}$**	**SO_2**	**NO_X**	**VOC**	**CO**	**GHG as CO2e**	**HAP Cobalt**	**Chrome**	**Toluene**	**Ethyl Benzene**	**Hexane**	**Xylene**	**HF**	**Total HAPs**
Zinc/Phosphate Dipping Line (permitted emissions)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Zinc/Phosphate Dipping Line (modified emissions)	5.14E-03	5.14E-03	5.14E-03	0	0	5.12E-02	0	0	0	1.58E-03	0	0	0	0	0	5.64E-02
Net Increase	**5.14E-03**	**5.14E-03**	**5.14E-03**	**0**	**0**	**5.12E-02**	**0**	**0**	**0**	**1.58E-03**	**0**	**0**	**0**	**0**	**0**	**5.64E-02**

New Emission Units

	Uncontrolled Potential To Emit (ton/yr)															
Process / Emission Unit	**PM**	**PM_{10}**	**$PM_{2.5}$**	**SO_2**	**NO_X**	**VOC**	**CO**	**GHG as CO2e**	**HAP Cobalt**	**Chrome**	**Toluene**	**Ethyl Benzene**	**Hexane**	**Xylene**	**HF**	**Total HAPs**
Blasting Room and Cabinets	102.36	71.65	71.65	0	0	0	0	0	0	0	0	0	0	0	0	0
Paint Booths (EU-6 to EU-11)	1.04	1.04	1.04	0	0	24.90	0	0	0	0	30.27	20.81	0	52.03	0	72.85
Cleaning operations	0	0	0	0	3.12	25.53	0	0	0	0	0	0	0	0	5.47	5.47
Air Makeup and B-10	0.21	0.85	0.85	0.07	11.15	0.61	9.36	13,458	0	0	0	0	0.20	0	0	0.20
Dipping Lines	1.72	1.72	1.72	0	0	1.16E-02	0	0	0	3.00E-03	0	0	0	0	0	1.92
Total New Units	**105.34**	**75.27**	**75.27**	**0.07**	**14.26**	**51.06**	**9.36**	**13,458**	**0**	**3.00E-03**	**30.27**	**20.81**	**0.20**	**52.03**	**5.47**	**80.44**

Net Increase of Modified and New Units	**105.35**	**75.27**	**75.27**	**0.07**	**14.26**	**51.11**	**9.36**	**13458**	**0**	**4.57E-03**	**30.27**	**20.81**	**0.20**	**52.03**	**5.47**	**80.49**

Appendix A: Emissions Calculations
PASSIVATION AND ETCH - MAXIMUM YEARLY THROUGHPUTS
Electroplating Potential To Emit
Company Name: Imagineering Enterprises, Inc.
Address City IN Zip: 3722 Foundation Court, South Bend, IN 46628
Significant Permit Modification No: 141-33450-00574
Significant Source Modification No: 141-33398-00574
Reviewer: Brandon Miller

EMISSION UNIT/PRODUCT	DENSITY LBS/GAL	THROUGHPUT GAL/DAY	THROUGHPUT LBS/HR	THROUGHPUT LBS/YR	AREA OF TANK
One (1) acid bath (P1)/ hydrofluoric acid 49	9.67	0.09	0.05	476	100
One (1) caustic bath (P2)/ Isoprep	11.90	0.92	0.68	5994	100
One (1) acid bath (P3)/ Nitric acid 85	11.30	5.97	4.22	36935	100
Two (2) solvent bath (P4)/ Isopropyl alcohol	6.55	1.00	0.41	3586	100
One (1) caustic bath (E1)/ soda ash 100	11.67	2.00	1.46	12779	100
One (1) acid bath (E2)/ sulfuric acid 25	15.30	4.80	4.59	40208	100
One (1) rust preventitive bath (E3)	9.42	35.00	20.61	180511	100

Key:

CN - Cyanide
Ni - Nickel
Cr - Chromium
HCl - Hydrochloric Acid
HNO_3 - Nitric Acid
H_2SO_4 - Sulfuric Acid
NOx - Nitrous Oxide
PM_{10} - Particulate Matter of Less than 10 Microns
SO_2 - Sulfur Dioxide
Conc. - concentration
HF - Hydrofluoric acid

PASSIVATION AND ETCH OPERATIONS - MATERIAL USAGES AND PERCENT CONCENTRATIONS
P = PASSIVATION TANK
E = ETCH TANK

	Max throughput lbs/yr	NITRIC ACID	CO	VOC	SULFURIC ACID	HYDROFLUORIC ACID	PM/PM_{10} EMISSIONS FACTOR (LBS/HR-FT^2)
P1 / Hydrofluoric acid 49	476	0.00%	0.00%	0.00%	0.00%	49.00%	0.0006
P2 / Isoprep	5,994	0.00%	0.00%	0.00%	0.00%	0.00%	0.0006
P3 / Nitric acid 85	36,935	85.00%	0.00%	0.00%	0.00%	0.00%	0.0006
P4 / isoprpoyl alcohol	3,586	0.00%	0.00%	100.00%	0.00%	0.00%	0.0006
E1 / soda ash 100	12,779	0.00%	0.00%	0.00%	0.00%	0.00%	0.0006
E2 / sulfuric acid 25	40,208	0.00%	0.00%	0.00%	25.00%	0.00%	0.0006
E3 / rust preventitive	180,511	0.00%	0.00%	0.00%	0.00%	0.00%	0.0006

PASSIVATION AND ETCH - ESTIMATED EMISSIONS (LBS/YR)

	NO_X	CO	VOC	SO_X	$PM/PM_{10\ (TONS)}$	$PM/PM_{10\ (LB/HR)}$	HF
P1 / Hydrofluoric acid 49	0.00	0.00	0.00	0.00	525.60	0.2628	0.00
P2 / Isoprep	0.00	0.00	0.00	0.00	525.60	0.2628	0.00
P3 / Nitric acid 85	11459.05	0.00	0.00	0.00	525.60	0.2628	0.00
P4 / isoprpoyl alcohol	0.00	0.00	3586.13	0.00	525.60	0.2628	0.00
E1 / soda ash 100	0.00	0.00	0.00	0.00	525.60	0.2628	0.00
E2 / sulfuric acid 25	0.00	0.00	0.00	0.00	525.60	0.2628	0.00
E3 / rust preventitive	0.00	0.00	0.00	0.00	525.60	0.2628	0.00

PASSIVATION AND ETCH - ESTIMATED EMISSIONS (TONS/YR)

	NO_X	CO	VOC	SO_X	$PM/PM_{10\ (TONS)}$	HF
P1 / Hydrofluoric acid 49	0.00	0.00	0.00	0.00	0.26	0.00
P2 / Isoprep	0.00	0.00	0.00	0.00	0.26	0.00
P3 / Nitric acid 85	5.73	0.00	0.00	0.00	0.26	0.00
P4 / isoprpoyl alcohol	0.00	0.00	1.79	0.00	0.26	0.00
E1 / soda ash 100	0.00	0.00	0.00	0.00	0.26	0.00
E2 / sulfuric acid 25	0.00	0.00	0.00	0.00	0.26	0.00
E3 / rust preventitive	0.00	0.00	0.00	0.00	0.26	0.00
TOTALS - TPY	**5.73**	**0.00**	**1.79**	**0.00**	**1.84**	**0.00**

METHODOLOGY

*NO2 [lb/yr] = Usage [lb/yr] x Nitric acid [%] x 0.365 [lb NO2/lb HNO3]
NO2 [ton/yr] = NO2 [lb/yr] / 2000 [lb/ton]
**SO2 [lb/yr] = Usage [lb/yr] x Sulfuric acid [%] x 0.0 [lb SO2/lb H2SO4]
SO2 [ton/yr] = SO2 [lb/yr] / 2000 [lb/ton]
CO2 [ton/yr] = CO2 [lb/yr] / 2000 [lb/ton]
VOC [ton/yr] = VOC [lb/yr] / 2000 [lb/ton]
HF [ton/yr] = HF [lb/yr] / 2000 [lb/ton]
PM/PM_{10} [ton/yr] = Hours Operation (8760) [hr/yr] x Area [ft^2] x 0.0006 [lb PM/hr-ft^2] / 2000 [lb/ton]
PM/PM10 Emission factor is from AP-42 12.20-2 for Chrome Electroplating and Anodizing. Emission factors for aluminum Anodizing have not been determined.

*1 mol NO2 formed from 2 mol HNO3, therefore X lbs NO2 formed from 2*Y lb HNO3 -- X/Y = 0.365 lb NO2 per lb HNO3
** H2SO4 -->SO3 -->SO2 but only at high temperatures in gas phase (870 degrees farenheit) therefore no SO2 emissions from H2SO4

CARC Application
PM and VOC
Company Name: Imagineering Enterprises, Inc.
Address City IN Zip: 3722 Foundation Court, South Bend, IN 46628
Significant Permit Modification No: 141-33450-00574
Significant Source Modification No: 141-33398-00574
Reviewer: Brandon Miller

Material	Density (Lb/Gal)	Weight % Volatile (H20 & Organics)	Weight % Water	Weight % Organics	Volume % Water	Volume % Non-Volatiles (solids)	Gal of Mat. (gal/unit)	Maximum (unit/hour)	Pounds VOC per gallon of coating less water	Pounds VOC per gallon of coating	Potential VOC pounds per hour	Potential VOC pounds per day	Potential VOC (ton/yr)	Particulate Potential (ton/yr)	Controlled Particulate Potential (ton/yr)	lb VOC/gal solids	Transfer Efficiency	Overspray Control Efficiency
CARC Paint F93G105	10.7	31.40%	0.0%	31.4%	51.7%	51.70%	0.07500	100.000	6.96	3.36	25.20	604.76	110.37	60.28	3.01	6.50	75%	95%
Primer E90H226	13.2	21.60%	0.0%	21.6%	0.0%	52.80%	0.05000	100.000	2.85	2.85	14.26	342.14	62.44	56.66	2.83	5.40	75%	95%
Primer Catalyst V93V5227	7.5	77.00%	0.0%	71.7%	19.5%	19.50%	0.01250	100.000	6.68	5.38	6.72	161.33	29.44	2.36	0.12	27.58	75%	95%
Cleaning Solvent	6.6	100.00%	100.0%	0.0%	100.0%	0.00%	0.00100	100.000	-	0.00	0.00	0.00	0.00	0.00	0.00	-	0%	95%
										Total Worst Case			**202.25**	**119.30**	**5.97**			

METHODOLOGY

Pounds of VOC per Gallon Coating less Water = (Density (lb/gal) * Weight % Organics) / (1-Volume % water)
Pounds of VOC per Gallon Coating = (Density (lb/gal) * Weight % Organics)
Potential VOC Pounds per Hour = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr)
Potential VOC Pounds per Day = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr) * (24 hr/day)
Potential VOC Tons per Year = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr) * (8760 hr/yr) * (1 ton/2000 lbs)
Particulate Potential Tons per Year = (units/hour) * (gal/unit) * (lbs/gal) * (1- Weight % Volatiles) * (1-Transfer efficiency) *(8760 hrs/yr) *(1 ton/2000 lbs)
Pounds VOC per Gallon of Solids = (Density (lbs/gal) * Weight % organics) / (Volume % solids)
Total = Worst Coating + Sum of all solvents used

Appendix A: Emissions Calculations
CARC Application
HAP

Company Name: Imagineering Enterprises, Inc.
Address City IN Zip: 3722 Foundation Court, South Bend, IN 46628
Significant Permit Modification No: 141-33450-00574
Significant Source Modification No: 141-33398-00574
Reviewer: Brandon Miller

Material	Density (Lb/Gal)	Gallons of Material (gal/unit)	Maximum (unit/hour)	Weight % Toluene	Weight % Ethyl Benzene	Weight % Cobalt	Weight % Chrome	Toluene Emissions (ton/yr)	Ethyle Emissions (ton/yr)	Cobalt Emissions (ton/yr)	Chrome Emissions (ton/yr)
CARC Paint F93G105	10.7	0.075000	100.00	0.00%	0.00%	7.00%	13.00%	0.00	0.00	6.15	11.42
Primer E90H226	13.2	0.050000	100.00	4.00%	0.10%	0.00%	0.00%	11.56	0.29	0.00	0.00
Primer Catalyst V93V227	7.5	0.012500	100.00	20.00%	0.00%	0.00%	0.00%	8.21	0.00	0.00	0.00
				0.00%	0.00%	0.00%	0.00%	0.00	0.00	0.00	0.00

Total State Potential Emissions	**19.78**	**0.29**	**6.15**	**11.42**
Total HAPs	**37.64**			

METHODOLOGY

HAPS emission rate (tons/yr) = Density (lb/gal) * Gal of Material (gal/unit) * Maximum (unit/hr) * Weight % HAP * 8760 hrs/yr * 1 ton/2000 lbs

Company Name: Imagineering Enterprises, Inc.
Address City IN Zip: 3722 Foundation Court, South Bend, IN 46628
Significant Permit Modification No: 141-33450-00574
Significant Source Modification No: 141-33398-00574
Reviewer: Brandon Miller

Potential to Emit (PTE) PM and PM10

BAGHOUSE ID	Baghouse Outlet Grain Loading (grains/acf)	Baghouse Outlet Air Flow Rate (acfm)	PTE of PM/PM10 BEFORE Controls* (lbs/hr)	PTE of PM/PM10 BEFORE Controls* (tons/yr)	Control Efficiency (%)	PTE of PM/PM10 After Controls* (lbs/hr)	PTE of PM/PM10 After Controls* (tons/yr)
AB-1	0.003	1,200	30.86	135.15	99.9%	0.03	0.14
PP-1	0.0001	1,000	0.01	0.0375	90.0%	0.00086	0.0038
Total			**30.87**	**135.19**		**0.03**	**0.14**

326 IAC 6.5 Allowable PM Emission Rate

Baghouse ID	Limit (g/dscf)	Process Weight Rate (tons/hr)	326 IAC 6.5 Allowable PM Emission Rate (lbs/hr)	326 IAC 6.5 Allowable PM Emission Rate (tons/yr)
AB-1	0.03	37800.00	9.72	42.57
PP-1	none			

METHODOLOGY

Potential to Emit PM/PM10 After Controls (lbs/hr) = [Baghouse Outlet Grain Loading (grains/acf)] * [Baghouse Outlet Air Flow Rate (acfm)] * [60 min/hr] * [lbs/7000 grains]
Potential to Emit PM/PM10 After Controls (tons/yr) = [Potential to Emit PM/PM10 After Controls (lbs/hr)] * [8760 hr/yr] * [ton/2000 lbs]
* Limited Control Efficiecies are the calculated to establish the minimum control efficiency required to comply with applicable rules, not the maximum control efficiencies of the baghouses.
Actual emissions for abrasive blasting particulate matter are to be calculated after consideration of the controls. 326IAC 2-7-1 (21)
PM = Particulate Matter, PM-10 = Particulate Matter less than 10 micrometers, PTE = Potential to Emit

326 IAC 6.5 Allowable PM Emission Rate = Limit (g/dscf) * Flow Rate (dscf/min) * 1/7000 (lb/g) * 60 (min/hr)

AB-1 uses aluminum oxide blasting media.

Company Name: Imagineering Enterprises, Inc.
Address City IN Zip: 3722 Foundation Court, South Bend, IN 46628
Significant Permit Modification No: 141-33450-00574
Significant Source Modification No: 141-33398-00574
Reviewer: Brandon Miller

				Pollutant	**CO**	**NOx****	**PM***	**PM10***	**SO2**	**VOC**
				Emission Factor (lb/MMCF)	84.0	100	1.9	7.6	0.6	5.5
Emission Unit	**Number of Units**	**Heat Input Capacity MMBtu/hr**	**Potential Throughput MMCF/hr**	**Potential Throughput MMCF/yr**	**Potential Emission tons/yr**					
					CO	**NOx****	**PM***	**PM10***	**SO2**	**VOC**
CO-1 (CARC CURE OVEN)	1	3.00	0.003	25.03	1.051	1.251	2.4E-02	0.095	7.5E-03	0.069
CO-2 (PRIMER CURE OVEN)	1	3.00	0.003	25.03	1.051	1.251	2.4E-02	0.095	7.5E-03	0.069
B-1 (PROCESS BOILER)	1	3.65	0.003	30.45	1.279	1.523	2.9E-02	0.116	9.1E-03	0.084
BH-4 (COMFORT HEAT)	1	0.20	0.000	1.67	0.070	0.083	1.6E-03	0.006	5.0E-04	0.005
BH-2 (COMFORT HEAT)	1	0.22	0.000	1.84	0.077	0.092	1.7E-03	0.007	5.5E-04	0.005
BH-6 (COMFORT HEAT)	1	0.20	0.000	1.67	0.070	0.083	1.6E-03	0.006	5.0E-04	0.005
BH-5 (COMFORT HEAT)	1	0.32	0.000	2.67	0.112	0.133	2.5E-03	0.010	8.0E-04	0.007
BH-7 (COMFOR T HEAT)	1	0.20	0.000	1.67	0.070	0.083	1.6E-03	0.006	5.0E-04	0.005
BH-9 (COMFORT HEAT)	1	0.20	0.000	1.67	0.070	0.083	1.6E-03	0.006	5.0E-04	0.005
BH-8 (COMFORT HEAT)	1	2.00	0.002	16.69	0.701	0.834	1.6E-02	0.063	5.0E-03	0.046
BO-1 (BURN OFF OVEN)	1	0.80	0.001	6.67	0.280	0.334	6.3E-03	0.025	2.0E-03	0.018
Totals	**11.000**	**13.790**	**0.013**	**115.048**	**4.832**	**5.752**	**0.109**	**0.437**	**0.035**	**0.316**

Pollutant	**Benzene**	**DCB**	**Formaldehyde**	**Hexane**	**Toluene**	**Ni**	**Cr**	**Cd**	**Mn**	**Pb**	
Emission Factor (lb/MMCF)	2.1E-03	1.2E-03	7.5E-02	1.8E+00	3.4E-03	2.1E-03	1.4E-03	1.1E-03	3.8E-04	5.0E-04	
	Potential Emission tons/yr										
Emission Unit	**Benzene**	**DCB**	**Formaldehyde**	**Hexane**	**Toluene**	**Ni**	**Cr**	**Cd**	**Mn**	**Pb**	**TOTAL**
CO-1 (CARC CURE OVEN)	2.6E-05	1.5E-05	9.4E-04	2.3E-02	4.3E-05	2.6E-05	1.8E-05	1.4E-05	4.8E-06	6.3E-06	2.4E-02
CO-2 (PRIMER CURE OVEN)	2.6E-05	1.5E-05	9.4E-04	2.3E-02	4.3E-05	2.6E-05	1.8E-05	1.4E-05	4.8E-06	6.3E-06	2.4E-02
B-1 (PROCESS BOILER)	3.2E-05	1.8E-05	1.1E-03	2.7E-02	5.2E-05	3.2E-05	2.1E-05	1.7E-05	5.8E-06	7.6E-06	2.9E-02
BH-4 (COMFORT HEAT)	1.8E-06	1.0E-06	6.3E-05	1.5E-03	2.8E-06	1.8E-06	1.2E-06	9.2E-07	3.2E-07	4.2E-07	1.6E-03
BH-2 (COMFORT HEAT)	1.9E-06	1.1E-06	6.9E-05	1.7E-03	3.1E-06	1.9E-06	1.3E-06	1.0E-06	3.5E-07	4.6E-07	1.7E-03
BH-6 (COMFORT HEAT)	1.8E-06	1.0E-06	6.3E-05	1.5E-03	2.8E-06	1.8E-06	1.2E-06	9.2E-07	3.2E-07	4.2E-07	1.6E-03
BH-5 (COMFORT HEAT)	2.8E-06	1.6E-06	1.0E-04	2.4E-03	4.5E-06	2.8E-06	1.9E-06	1.5E-06	5.1E-07	6.7E-07	2.5E-03
BH-7 (COMFOR T HEAT)	1.8E-06	1.0E-06	6.3E-05	1.5E-03	2.8E-06	1.8E-06	1.2E-06	9.2E-07	3.2E-07	4.2E-07	1.6E-03
BH-9 (COMFORT HEAT)	1.8E-06	1.0E-06	6.3E-05	1.5E-03	2.8E-06	1.8E-06	1.2E-06	9.2E-07	3.2E-07	4.2E-07	1.6E-03
BH-8 (COMFORT HEAT)	1.8E-05	1.0E-05	6.3E-04	1.5E-02	2.8E-05	1.8E-05	1.2E-05	9.2E-06	3.2E-06	4.2E-06	1.6E-02
BO-1 (BURN OFF OVEN)	7.0E-06	4.0E-06	2.5E-04	6.0E-03	1.1E-05	7.0E-06	4.7E-06	3.7E-06	1.3E-06	1.7E-06	6.3E-03
Totals	**1.2E-04**	**6.9E-05**	**4.3E-03**	**1.0E-01**	**2.0E-04**	**1.2E-04**	**8.1E-05**	**6.3E-05**	**2.2E-05**	**2.9E-05**	**1.1E-01**

*PM emission factor is filterable PM only. PM10 emission factor is filterable and condensable PM10 combined.
**Emission Factors for NOx: Uncontrolled = 100, Low NOx Burner = 50, Low NOx Burners/Flue gas recirculation = 32
The five highest organic and metal HAPs emission factors are provided above. Additional HAPs emission factors are available in AP-42, Chapter 1.4.

Methodology
Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) * 8,760 hrs/yr * 1 MMCF/1,000 MMBtu
Emission (tons/yr) = Throughput (MMCF/yr) * Emission Factor (lb/MMCF) / 2,000 lb/ton
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)
All emission factors are based on normal firing.
MMBtu = 1,000,000 Btu, MMCF = 1,000,000 Cubic Feet of Gas

Abbreviations

PM = Particulate Matter	NOx = Nitrous Oxides	DCB = Dichlorobenzene	Cr = Chromium
PM10 = Particulate Matter (<10 um)	VOC - Volatile Organic Compounds	Pb = Lead	Mn = Manganese
SO2 = Sulfur Dioxide	CO = Carbon Monoxide	Cd = Cadmium	Ni = Nickel

Appendix A: Emissions Calculations
Natural Gas Combustion
Greenhouse Gas Emissions

Company Name: Imagineering Enterprises, Inc.
Address City IN Zip: 3722 Foundation Court, South Bend, IN 46628
Significant Permit Modification No: 141-33450-00574
Significant Source Modification No: 141-33398-00574
Reviewer: Brandon Miller

Greenhouse Gas Calculations

	Greenhouse Gas		
	CO2	CH4	N2O
Emission Factor in lb/MMcf	120,000	2.3	2.2
Potential Emission in tons/yr	6,903	0.132305	0.126553

Summed Potential Emissions in tons/yr	**6,903**

CO2e Total in tons/yr based on 11/29/2013 federal GWPs	**6,944**
CO2e Total in tons/yr based on 10/30/2009 federal GWPs	**6,945**

Methodology
The N2O Emission Factor for uncontrolled is 2.2. The N2O Emission Factor for low Nox burner is 0.64.
Emission Factors are from AP 42, Table 1.4-2 SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03.
Global Warming Potentials (GWP) from Table A-1 of 40 CFR Part 98 Subpart A.
Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton
CO2e (tons/yr) based on 11/29/2013 federal GWPs= CO2 Potential Emission ton/yr x CO2 GWP (1) + CH4 Potential Emission ton/yr x CH4 GWP (25) + N2O Potential Emission ton/yr x N2O GWP (298).
CO2e (tons/yr) based on 10/30/2009 federal GWPs = CO2 Potential Emission ton/yr x CO2 GWP (1) + CH4 Potential Emission ton/yr x CH4 GWP (21) + N2O Potential Emission ton/yr x N2O GWP (310).

Appendix A: Emissions Calculations
Abrasive Blasting Room and Cabinets

Company Name: Imagineering Enterprises, Inc.
Address City IN Zip: 3722 Foundation Court, South Bend, IN 46628
Significant Permit Modification No: 141-33450-00574
Significant Source Modification No: 141-33398-00574
Reviewer: Brandon Miller

Description	Unit ID	Max. Abrasive Usage (lbs/hr)	*PM Emission Factor (lbs/lbs)	Fraction of time Wet Blasting (%)	PTE of PM Uncontrolled (lbs/hr)	PTE of PM Uncontrolled (tons/yr)	*PM10 Emission Factor (lbs/lbs PM)	PTE of PM10 Uncontrolled (lbs/hr)	PTE of PM10 Uncontrolled (tons/yr)
Small Cabinet Blaster: Glass Plastic Bead or Aluminum Oxide Media	**SCB1**	10.00	0.041	0	0.41	1.80	0.70	0.29	1.26
Large Dual Cabinet Blaster: Aluminum Oxide Media	**LCB1**	25.00	0.041	0	1.03	4.49	0.70	0.72	3.14
Small Cabinet Blaster: Glass Plastic Bead or Aluminum Oxide Media	**SCB2**	10.00	0.041	0	0.41	1.80	0.70	0.29	1.26
Wet Blaster: Vermiculite Media	**WB1**	10.00	0.041	100	0.21	0.90	0.70	0.14	0.63
Tumble Blaster: Aluminum Oxide Media	**TB1**	10.00	0.041	0	0.41	1.80	0.70	0.29	1.26
Small Cabinet Blaster: Glass, Plastic Beads or Aluminum Oxide	**SCB3**	10.00	0.041	0	0.41	1.80	0.70	0.29	1.26
Blasting Room; Glass, Plastic Beads, or Aluminum Oxide	**BR**	500.00	0.041	0	20.50	89.79	0.70	14.35	62.85
	Totals					**102.36**			**71.65**

*The emission factors are the ones for sand blasting from Air Quality Permits, Vol. 1, Section 3 "abrasive blasting" (1991 Edition)

Methodology

Assume PM2.5 is same as PM10

PTE = Potential To emit

PTE of PM/PM10 Uncontrolled (lbs/hr) = Max. Abrasive Usage (lbs/hr) x PM/PM10 Emission Factor (lbs/lbs) x (1 - fraction of wet blasting/200)

PTE of PM/PM10 Uncontrolled (tons/yr) = Max. Abrasive Usage (lbs/hr) x PM/PM10 Emission Factor (lbs/lbs) x 8760 hr/yr x 1 ton/2000 lbs

Appendix A: Emissions Calculations
Paint Booth EU-6 through EU-11

Company Name: Imagineering Enterprises, Inc.
Address City IN Zip: 3722 Foundation Court, South Bend, IN 46628
Significant Permit Modification No: 141-33450-00574
Significant Source Modification No: 141-33398-00574
Reviewer: Brandon Miller

Booth & Material	Density (lbs/gal)	Weight % Volatile (H20 & Organics)	Weight % Water	Weight % Organics	Volume % Water	Volume % Non-Volatiles (solids)	Material Usage Rate (gal/unit)	Maximum Throughput (unit/hour)	Pounds VOC per Gallon of Coating less Water	Pounds VOC per Gallon of Coating	PTE of VOC (lbs/hour)	PTE of VOC (tons/year)	PTE of PM/PM10 (tons/year)	Transfer Efficiency
Booth (EU-6)	EU-6													
Paint	10.5	96.22%	3.78%	8.00%	2.00%	0.00%	0.00500	80.000	0.86	0.84	0.34	1.5	0.17	75%
Primer	12.9	100.00%	15.69%	14.80%	2.00%	0.00%	0.00400	80.000	1.95	1.91	0.61	2.7	0.00	75%
Booth (EU-7)	EU-7													
Paint	10.5	96.22%	3.78%	8.00%	2.00%	0.00%	0.00500	80.000	0.86	0.84	0.34	1.5	0.17	75%
Primer	12.9	100.00%	15.69%	14.80%	2.00%	0.00%	0.00400	80.000	1.95	1.91	0.61	2.7	0.00	75%
Booth (EU-8)	EU-8													
Paint	10.5	96.22%	3.78%	8.00%	2.00%	0.00%	0.00500	80.000	0.86	0.84	0.34	1.5	0.17	75%
Primer	12.9	100.00%	15.69%	14.80%	2.00%	0.00%	0.00400	80.000	1.95	1.91	0.61	2.7	0.00	75%
Booth (EU-9)	EU-9													
Paint	10.50	96.22%	3.78%	8.00%	2.00%	0.00%	0.0050	80.00	0.86	0.84	0.34	1.5	0.17	75%
Primer	12.90	100.00%	15.69%	14.80%	2.00%	0.00%	0.00400	80.00	1.95	1.91	0.61	2.7	0.00	75%
Booth (EU-10)	EU-10													
Paint	10.50	96.22%	3.78%	8.00%	2.00%	0.00%	0.0050	80.00	0.86	0.84	0.34	1.5	0.17	75%
Primer	12.90	100.00%	15.69%	14.80%	2.00%	0.00%	0.00400	80.00	1.95	1.91	0.61	2.7	0.00	75%
Booth (EU-11)	EU-11													
Paint	10.50	96.22%	3.78%	8.00%	2.00%	0.00%	0.0050	80.00	0.86	0.84	0.34	1.5	0.17	75%
Primer	12.90	100.00%	15.69%	14.80%	2.00%	0.00%	0.00400	80.00	1.95	1.91	0.61	2.7	0.00	75%
									PM Control Efficiency:	90%				
										Uncontrolled		**24.9**	**1.04**	

Note: Only one (1) coating can be sprayed at a time, using HVLP spray applicator

Limited VOC per Booth (lbs/day)	Limited VOC per Booth (tons/year)
15.00	**2.74**

Total Limited VOC	**16.43**

METHODOLOGY
Pounds of VOC per Gallon Coating less Water = Density (lbs/gal) * Weight % Organics *1/ (1-Volume % Water)
Pounds of VOC per Gallon Coating = Density (lbs/gal) * Weight % Organics
PTE of VOC (lbs/hour) = Pounds of VOC per Gallon Coating (lb/gal) * Material Usage Rate (gal/unit) * Maximum Throughput (units/hour)
PTE of VOC (tons/year) = Pounds of VOC per Gallon of Coating (lbs/gal) * Material Usage Rate (gal/unit) * Maximum Throughput (units/hour) * 8760 hours/year * 1 ton/2000 lbs
PTE of PM/PM10 (tons/year) = Maximum Throughput (units/hour) * Material Usage Rate (gal/unit) * Density (lbs/gal) * (1- Weight % Volatile) * (1-Transfer Efficiency %) * 8760 hours/year * 1 ton/2000 lbs
Assume PM2.5 and PM10 is same as PM
VOC is limited to less than 15 pounds per day to comply with 326 IAC 8-1-1(b) and to be exempt from all other 326 IAC 8 rules. The limit is also used to render 326 IAC 2-2 (PSD) not applicable.

Appendix A: Emissions Calculations
Paint Booth EU-6 through EU-11
HAP calculations

Company Name: Imagineering Enterprises, Inc.
Address City IN Zip: 3722 Foundation Court, South Bend, IN 46628
Significant Permit Modification No: 141-33450-00574
Significant Source Modification No: 141-33398-00574
Reviewer: Brandon Miller

Booth & Material	Density (lbs/gal)	Weight % Xylene	Weight % Toluene	Weight % Methyl isobutyl ketone	Weight % Ethyl Benzene	Weight % Lead Compounds	Material Usage Rate (gal/hour)	Xylene Emissions (tons/year)	Toluene Emissions (tons/year)	Methyl isobutyl ketone emissions (tons/year)	Ethyl Benzene Emissions (tons/year)	Lead Compounds Emissions (tons/year)
Booth (EU-6)	EU-6											
Lube-Lok 1000	9.90	50.00%	0.00%	0.00%	20.00%	0.00%	0.40000	8.67	0.00	0.00	3.47	0.00
Ecoalube	9.60	0.00%	30.00%	5.00%	0.00%	5.00%	0.40000	0.00	5.05	0.84	0.00	0.84
Booth (EU-7)	EU-7											
Lube-Lok 1000	9.9	50.00%	0.00%	0.00%	20.00%	0.00%	0.40000	8.67	0	0	3.47	0
Ecoalube	9.6	0.00%	30.00%	5.00%	0.00%	5.00%	0.40000	0	5.05	0.84	0	0.84
Booth (EU-8)	EU-8											
Lube-Lok 1000	9.9	50.00%	0.00%	0.00%	20.00%	0.00%	0.40000	8.67	0	0	3.47	0
Ecoalube	9.6	0.00%	30.00%	5.00%	0.00%	5.00%	0.40000	0	5.05	0.84	0	0.84
Booth (EU-9)	EU-9											
Lube-Lok 1000	9.9	50.00%	0.00%	0.00%	20.00%	0.00%	0.40000	8.67	0	0	3.47	0
Ecoalube	9.6	0.00%	30.00%	5.00%	0.00%	5.00%	0.40000	0	5.05	0.84	0	0.84
Booth (EU-10)	EU-10											
Lube-Lok 1000	9.9	50.00%	0.00%	0.00%	20.00%	0.00%	0.40000	8.67	0	0	3.47	0
Ecoalube	9.6	0.00%	30.00%	5.00%	0.00%	5.00%	0.40000	0	5.05	0.84	0	0.84
Booth (EU-11)	EU-11											
Lube-Lok 1000	9.9	50.00%	0.00%	0.00%	20.00%	0.00%	0.40000	8.67	0	0	3.47	0
Ecoalube	9.6	0.00%	30.00%	5.00%	0.00%	5.00%	0.40000	0	5.05	0.84	0	0.84
								52.03	30.27	5.05	20.81	5.05
											Total HAPs	**72.85**

Note: Only one (1) coating can be sprayed at a time, using HVLP spray applicator

METHODOLOGY
Individual HAP Emissions (tons/year) = density * Weight % HAP * Material Usage Rate * 8760 hours/year *1 ton/2000 lbs
Worst uncontrolled = sum of highest individual HAP per booth
Total HAP = Highest Sum of all Individual HAPs of all of the coatings

Appendix A: Emissions Calculations
Cleaning Tanks (C1 through C7)

Company Name: Imagineering Enterprises, Inc.
Address City IN Zip: 3722 Foundation Court, South Bend, IN 46628
Significant Permit Modification No: 141-33450-00574
Significant Source Modification No: 141-33398-00574
Reviewer: Brandon Miller

Material	Maximum Consumption (lbs/hr)	Weight % VOC	VOC Emissions (tons/yr)	NOx Emissions (tons/yr)
MEK[1]	2.63	100%	11.52	N/A
Hydrofluoric Acid[2]	1.2495	49%	5.47	N/A
Nitric acid*	1.95	85%	8.54	3.12
	Total (tons/yr)		**25.53**	**3.12**

Methodology
VOC/HAPs emission rate (tons/yr) = Material Usage (lbs/hr) * 8760 hrs/yr *1ton/2000 ibls
*1 mol NO2 formed from 2 mol HNO3, therefore X lbs NO2 formed from 2*Y lb HNO3 -- X/Y = 0.365 lb NO2 per lb HNO3
[1]MEK is a VOC but has been delisted as a HAP.
[2]Hydrofluoric acid is both a VOC and a HAP.

Appendix A: Emissions Calculations
Air Makeup Units and Boiler B-10

Company Name: Imagineering Enterprises, Inc.
Address City IN Zip: 3722 Foundation Court, South Bend, IN 46628
Significant Permit Modification No: 141-33450-00574
Significant Source Modification No: 141-33398-00574
Reviewer: Brandon Miller

Total Air Makeup and Boiler B-10 Heat Input Capacity MMBtu/hr	AM-1 mmBtu / mmscf	Potential Throughput MMcf/yr
25.450	1000	222.9

	Heat Input Rating (MMBtu/hr)
AM-1	8.8
AM-2	4.0
AM-3	4.0
B-10	8.65

	Pollutant						
	PM*	PM_{10}*	$PM_{2.5}$*	SO_2	NO_x	VOC	CO
Emission Factor (lb/MMcf)	1.9	7.6	7.6	0.6	100 **see below	5.5	84
Potential Emissions (tons/yr)	0.21	0.85	0.85	0.07	11.15	0.61	9.36

* PM emission factor is filterable PM only. PM_{10} and $PM_{2.5}$ emission factors are filterable and condensable PM combined.

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

All emission factors are based on normal firing.
MMBtu = 1,000,000 Btu
MMcf = 1,000,000 Cubic Feet of Gas
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.

Methodology
Potential Throughput (MMcf/yr) = Heat Input Capacity (MMBtu/hr) * 8,760 hrs/yr ÷ 1,000 MMBtu/MMcf
Potential Emissions (tons/yr) = Throughput (MMcf/yr) * Emission Factor (lb/MMcf) ÷ 2,000 lb/ton
See page 2 for HAPs emissions calculations.

	HAPs - Organics					
	Benzene	Dichlorobenzene	Formaldehyde	Hexane	Toluene	
Emission Factor in lb/MMcf	2.1E-03	1.2E-03	7.5E-02	1.8E+00	3.4E-03	
Potential Emission in tons/yr	2.34E-04	1.34E-04	8.36E-03	2.01E-01	3.79E-04	2.10E-01

	HAPs - Metals					
	Lead	Cadmium	Chromium	Manganese	Nickel	
Emission Factor in lb/MMcf	5.0E-04	1.1E-03	1.4E-03	3.8E-04	2.1E-03	
Potential Emission in tons/yr	5.57E-05	1.23E-04	1.56E-04	4.24E-05	2.34E-04	6.11E-04
						2.10E-01

Methodology
Methodology is the same as page 1.
The five highest organic and metal HAPs emission factors are provided above.
Additional HAPs emission factors are available in AP-42, Chapter 1.4.
See Page 3 for Greenhouse Gas calculations.

	Greenhouse Gas		
	CO_2	CH_4	N_2O
Emission Factor (lb/MMcf)	120000	2.3	2.2
Potential Emissions (tons/yr)	13376.52	0.26	0.25
Summed Potential Emissions (tons/yr)	13,377		
CO2e Total in tons/yr based on 11/29/2013 federal GWPs		**13,456**	
CO2e Total in tons/yr based on 10/30/2009 federal GWPs		**13,458**	

The N_2O Emission Factor for uncontrolled is 2.2. The N_2O Emission Factor for low NO_x burner is 0.64.
Emission factors are from AP-42, Table 1.4-2 SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03.
Greenhouse Warming Potentials (GWP) are from Table A-1 of 40 CFR Part 98 Subpart A.

Methodology
Potential Emissions (tons/yr) = Throughput (MMcf/yr) * Emission Factor (lb/MMcf) ÷ 2,000 lb/ton
CO2e (tons/yr) based on 11/29/2013 federal GWPs= CO2 Potential Emission ton/yr x CO2 GWP (1) + CH4 Potential Emission ton/yr x CH4 GWP (25) + N2O Potential Emission ton/yr x N2O GWP (298).
CO2e (tons/yr) based on 10/30/2009 federal GWPs = CO2 Potential Emission ton/yr x CO2 GWP (1) + CH4 Potential Emission ton/yr x CH4 GWP (21) + N2O Potential Emission ton/yr x N2O GWP (310).

Appendix A: Emissions Calculations
Dipping Lines (zinc/phosphate and manganese dipping lines)
Company Name: Imagineering Enterprises, Inc.
Address City IN Zip: 3722 Foundation Court, South Bend, IN 46628
Significant Permit Modification No: 141-33450-00574
Significant Source Modification No: 141-33398-00574
Reviewer: Brandon Miller

Line	Tank	Pollutant	Maximum Usage Solution	maximum usage units	density in lbs/gal	Weight % Pollutant	PTE (tons/yr)
Zinc/phosphate	7	Nickel	54	gallons per year	13.186	1	3.6E-03
	12	Chrome	2366	mL per year	12.6	40	1.6E-03
	13	diethylene glycol monobutyl ether	132	gallons per year	7.76	10	5.1E-02
Manganese (image tanks)	5	Manganese	140	gallons per year	11.1	40	3.1E-01
	5	Nickel	140	gallons per year	11.1	1	7.8E-03
	8	diethylene glycol monobutyl ether	30	gallons per year	7.76	10	1.2E-02
	9	Chrome	2250	mL per year	12.6	40	1.5E-03
	10	Chrome	2250	mL per year	12.6	40	1.5E-03
Manganese (manganese tanks)	5	HCL	100	gallons per year	9.7	37	1.8E-01
	6	Manganese	20	lbs per year	-	60	6.0E-01
	7	Manganese	16	lbs per year	-	50	4.0E-01
	8	Manganese	77	gallons per year	11.35	30	1.3E-01
	8	Nickel	77	gallons per year	11.35	1	4.4E-03
	9	Manganese	77	gallons per year	11.1	30	1.3E-01
	9	Nickel	77	gallons per year	11.1	1	4.3E-03
	12	Manganese	77	gallons per year	11.35	30	1.3E-01
	12	Nickel	77	gallons per year	11.35	1	4.4E-03

	(tons/yr)
Total Manganese	1.70
Total Nickel	0.02
Total Chrome	0.00
Total HCl	0.18
Total diethylene glycol monobutyl ether	0.01
Total HAPs	**1.92**

Methodology
Diethylene glycol monobutyl ether is also a VOC.
Manganese, Nickel, and Chrome are also potential sources of PM, PM10, and PM2.5
PTE (tons/year) = Maximum usage (gal/year) * Density (lbs/gal) * Weight % Pollutant *1 ton/2000 lbs
PTE (tons/year) = Maximum usage (mL/year) * 1 gal/ 3785.4mL* Density (lbs/gal) * Weight % Pollutant *1 ton/2000 lbs
PTE (tons/year) = Maximum usage (lbs/year) * 1 ton/2000 lbs

Appendix A: Emissions Calculations
Chem Line

Company Name: Imagineering Enterprises, Inc.
Address City IN Zip: 3722 Foundation Court, South Bend, IN 46628
Significant Permit Modification No: 141-33450-00574
Significant Source Modification No: 141-33398-00574
Reviewer: Brandon Miller

Open Tank A-3
Sulfuric Acid and Hydrogen Fluoride

Flow Rate (acfm) = 100
Temp (R) = 560

Mol wt HF	Mol Wt H2SO4	HF Ef (ppmv)	H2SO4 Ef (ppmv)	HF Emissions (tpy)	H2SO4 Emission (tpy)
20.01	98	375.613	1.475	0.48	0.01

Open Tank A-6
Hydrogen Fluoride
Flow Rate (acfm) = 100
Temp (R) = 560

Mol wt HF	HF Ef (ppmv)	HF Emissions (tpy)
20.01	407.291	0.52

Open Tank A-1
Dipropylene glycol monomethyl ether
Flow Rate (acfm) = 100
Temp (R) = 600

Mol Wt	Ef (ppmv)	Emissions (tpy)
90	430.866	2.33

Emissions (tpy) = [flow rate (acfm) x Ef (ppmv)/1000,000] x [1 atm / R (0.07302 atm - cf/lb mole-R) * Temp (R)] * Mole weight * 60 (min/hr) * 8760 (hr/yr) * 1/2000 (ton/lb)

* H2SO4 -->SO3 -->SO2 but only at high temperatures in gas phase (870 degrees farenheit) therefore no SO2 emissions from H2SO4

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
We Protect Hoosiers and Our Environment.
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Michael R. Pence
Governor

Thomas W. Easterly
Commissioner

SENT VIA U.S. MAIL: CONFIRMED DELIVERY AND SIGNATURE REQUESTED

TO: Jacinda Edman
Imagineering Enterprises, Inc.
1302 W. Sample Street
South Bend, Indiana 46619

DATE: April 2, 2014

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

SUBJECT: Final Decision
Title V – Significant Permit Modification
141-33450-00574

Enclosed is the final decision and supporting materials for the air permit application referenced above. Please note that this packet contains the original, signed, permit documents.

The final decision is being sent to you because our records indicate that you are the contact person for this application. However, if you are not the appropriate person within your company to receive this document, please forward it to the correct person.

A copy of the final decision and supporting materials has also been sent via standard mail to:
Michael Kolo, VP of Operations / Imagineering Enterprises, Inc.
Nate Black / D&B Environmental Services, Inc.
OAQ Permits Branch Interested Parties List

If you have technical questions regarding the enclosed documents, please contact the Office of Air Quality, Permits Branch at (317) 233-0178, or toll-free at 1-800-451-6027 (ext. 3-0178), and ask to speak to the permit reviewer who prepared the permit. If you think you have received this document in error, please contact Joanne Smiddie-Brush of my staff at 1-800-451-6027 (ext 3-0185), or via e-mail at jbrush@idem.IN.gov.

Final Applicant Cover letter.dot 6/13/2013

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
We Protect Hoosiers and Our Environment.
100 N. Senate Avenue • Indianapolis, IN 46204
(800) 451-6027 • (317) 232-8603 • www.idem.IN.gov

Michael R. Pence
Governor

Thomas W. Easterly
Commissioner

April 2, 2014

TO: St. Joseph Public Library

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

Subject: **Important Information for Display Regarding a Final Determination**

Applicant Name: Imagineering Enterprises, Inc.
Permit Number: 141-33450-00574

You previously received information to make available to the public during the public comment period of a draft permit. Enclosed is a copy of the final decision and supporting materials for the same project. Please place the enclosed information along with the information you previously received. To ensure that your patrons have ample opportunity to review the enclosed permit, **we ask that you retain this document for at least 60 days.**

The applicant is responsible for placing a copy of the application in your library. If the permit application is not on file, or if you have any questions concerning this public review process, please contact Joanne Smiddie-Brush, OAQ Permits Administration Section at 1-800-451-6027, extension 3-0185.

Enclosures
Final Library.dot 6/13/2013

Mail Code 61-53

IDEM Staff	AWELLS 4/2/2014 Imagineering Enterprises, Inc 141-33450-00574 Final			AFFIX STAMP HERE IF USED AS CERTIFICATE OF MAILING
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2		Michael Kolo VP of Operations Imagineering Enterprises, Inc 1302 W Sample St South Bend IN 46619-3895 *(RO CAATS)*									
3		St Joseph Co Public Library 611 Lombardy Drive South Bend IN 46619 *(Library)*									
4		Mr. Wayne Falda South Bend Tribune 255 W Colfax Ave South Bend IN 46626 *(Affected Party)*									
5		South Bend City Council / Mayors Office 227 W. Jefferson Blvd. South Bend IN 46601 *(Local Official)*									
6		St. Joseph County Board of Commissioners 227 West Jefferson Blvd, South Bend IN 46601 *(Local Official)*									
7		St. Joseph County Health Department 227 W Jefferson Blvd, Room 825 South Bend IN 46601-1870 *(Health Department)*									
8		Nate Black D&B Environmental Services, Inc. 401 Lincoln Way West Osceola IN 46561 *(Consultant)*									
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