



# INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

*We Protect Hoosiers and Our Environment.*

*Mitchell E. Daniels Jr.*  
Governor

*Thomas W. Easterly*  
Commissioner

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

TO: Interested Parties / Applicant

DATE: April 26, 2011

RE: Custom Coating, Inc. / 033-28551-00105

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

## Notice of Decision: Approval - Registration

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 4-21.5-3-4(d) this order is effective when it is served. When served by U.S. mail, the order is effective three (3) calendar days from the mailing of this notice pursuant to IC 4-21.5-3-2(e).

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

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  
FN-REGIS.dot 1/2/08



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## REGISTRATION OFFICE OF AIR QUALITY

**Custom Coating, Inc  
1937 Jacob Street  
Auburn, Indiana 46706**

Pursuant to 326 IAC 2-5.1 (Construction of New Sources: Registrations) and 326 IAC 2-5.5 (Registrations), (herein known as the Registrant) is hereby authorized to construct and operate subject to the conditions contained herein, the source described in Section A (Source Summary) of this registration.

Registration No. 033-28551-00105	
Issued by:  Alyn Caillong, Section Chief Permits Branch Office of Air Quality	Issuance Date:  April 26, 2011

## SECTION A

## SOURCE SUMMARY

This registration 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 and A.2 is descriptive information and does not constitute enforceable conditions. However, the Registrant 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 Registrant to obtain additional permits pursuant to 326 IAC 2.

### A.1 General Information

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The Registrant owns and operates a stationary aluminum surface coating, plating, and blasting plant.

Source Address:	1937 Jacob Street, Auburn, Indiana 46706
General Source Phone Number:	260-925-0623
SIC Code:	3471
County Location:	Dekalb County
Source Location Status:	Attainment for all criteria pollutants
Source Status:	Registration

### A.2 Emission Units and Pollution Control Equipment Summary

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

- (a) One (1) Alodine Dip Tank operation, identified as EU-01, consisting of the following:
  - (1) One (1) alodine dip tank line, identified as Alodine Line 1, constructed in August, 2006, for coating aluminum products, consisting of the following:
    - (A) seven (7) dip tanks for cleaning, rinsing, and coating with a combined maximum throughput capacity of 3,684 pounds per hour; and
    - (B) two (2) natural gas-fired drying ovens, one constructed in January, 2005 with a maximum heat input of 0.250 MMBtu/hr and exhausting through Stack SV-6 , and one (1) constructed in 2009 with a maximum heat input capacity of 0.250 MMBtu/hr and exhausting through Stack SV-7.
  - (2) One (1) alodine dip tank line, identified as Alodine Line 2, constructed in August, 2010, for coating aluminum products, consisting of the following:
    - (A) eleven (11) dip tanks for cleaning, rinsing, and coating with a combined maximum throughput capacity of 10,892 pounds per hour; and
    - (B) two (2) natural gas-fired drying ovens, one constructed in August, 2010 with a maximum heat input of 0.500 MMBtu/hr and exhausting to atmosphere , and one (1) constructed in August, 2010 with a maximum heat input capacity of 0.900 MMBtu/hr and exhausting to atmosphere.
- (b) One (1) Manganese Phosphate Line, identified as EU-02, constructed in June, 2004, with a maximum throughput capacity of 3,479 pounds per hour, consisting of eight (8) tanks, exhausting to stacks SV-01, SV-02, and SV-03.

Under 40 CFR 63, Subpart WWWW, this facility is considered and affected source.
- (c) One (1) Tumble Blast Line, constructed before 2010, identified as EU-03, consisting of the following:

- (1) One (1) Wheelabrator blast unit, identified as Wheelabrator 1, constructed in April, 2004, with a maximum throughput capacity of 2,100 pounds per hour, with dry filters for particulate control, exhausting through stacks SV-04 and SV-05;
  - (2) One (1) Wheelabrator blast unit, identified as Wheelabrator 2, with a maximum throughput capacity of 2,100 pounds per hour, with dry filters for particulate control, exhausting through stacks SV-04 and SV-05;
  - (3) One (1) Wheelabrator blast unit, identified as Wheelabrator 3, constructed in July, 2007, with a maximum throughput capacity of 2,100 pounds per hour, with dry filters for particulate control, exhausting to atmosphere;
  - (4) One (1) Rotofinish blast unit, identified as Rotofinish 1, with a maximum throughput capacity of 1,800 pounds per hour, with dry filters for particulate control, exhausting to atmosphere; and
  - (5) One (1) Rotofinish blast unit, identified as Rotofinish 2, constructed in June, 2005, with a maximum throughput capacity of 1,800 pounds per hour, with dry filters for particulate control, exhausting to atmosphere.
- (d) Eight (8) natural gas-fired combustion units, serving as make-up air units or space heaters, identified as EU-04, consisting of the following:
- (1) One (1) King 6000 Air Make-up Air Unit, constructed in January, 2003, with a maximum heat input capacity of 2.592 MMBtu/hr, exhausting to atmosphere;
  - (2) One (1) Titan Air Make-up unit, constructed in January, 1997, with a maximum heat input capacity of 3.168 MMBtu/hr, exhausting to atmosphere;
  - (3) One (1) Ceiling Tube Heater, constructed in January, 1997, with a maximum heat input capacity of 0.100 MMBtu/hr, exhausting to atmosphere;
  - (4) One (1) Ceiling Tube Heater, constructed in January, 1998, with a maximum heat input capacity of 0.150 MMBtu/hr, exhausting to atmosphere;
  - (5) One (1) Ceiling Tube Heater, constructed in January, 1998, with a maximum heat input capacity of 0.150 MMBtu/hr, exhausting to atmosphere;
  - (6) One (1) Ceiling Tube Heater, constructed in January, 1999, with a maximum heat input capacity of 0.125 MMBtu/hr, exhausting to atmosphere;
  - (7) One (1) Front Office Heater, constructed in January, 2003, with a maximum heat input capacity of 0.120 MMBtu/hr, exhausting to atmosphere;
  - (8) One (1) QA Office Heater, constructed in January, 1999, with a maximum heat input capacity of 0.100 MMBtu/hr, exhausting to atmosphere; and
  - (9) One (1) Paint cure oven, approved for construction in 2011, with a maximum heat input capacity of 0.4 MMBtu/hr.
- (e) One (1) Powder Coat Spray Paint Booth, identified as EU-05, approved for construction in 2011, with one (1) HVLP spray nozzle with a maximum spray capacity of 7.5 pounds of material per hour, to coat die cast magnesium parts, using dry filters for particulate control, and exhausting through stack S-09.

## SECTION B

## GENERAL CONDITIONS

### B.1 Definitions [326 IAC 2-1.1-1]

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Terms in this registration 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 2-1.1-1) shall prevail.

### B.2 Effective Date of Registration [IC 13-15-5-3]

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Pursuant to IC 13-15-5-3, this registration is effective immediately, unless a petition for stay of effectiveness is filed and granted according to IC 13-15-6-3, and may be revoked or modified in accordance with the provisions of IC 13-15-7-1.

### B.3 Registration Revocation [326 IAC 2-1.1-9]

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Pursuant to 326 IAC 2-1.1-9 (Revocation), this registration to operate may be revoked for any of the following causes:

- (a) Violation of any conditions of this registration.
- (b) Failure to disclose all the relevant facts, or misrepresentation in obtaining this registration.
- (c) Changes in regulatory requirements that mandate either a temporary or permanent reduction of discharge of contaminants. However, the amendment of appropriate sections of this registration shall not require revocation of this registration.
- (d) For any cause which establishes in the judgment of IDEM the fact that continuance of this registration is not consistent with purposes of this article.

### B.4 Prior Permits Superseded [326 IAC 2-1.1-9.5]

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- (a) All terms and conditions of permits established prior to Registration No. 033-28551-00105 and issued pursuant to permitting programs approved into the state implementation plan have been either:
  - (1) incorporated as originally stated,
  - (2) revised, or
  - (3) deleted.
- (b) All previous registrations and permits are superseded by this registration.

### B.5 Annual Notification [326 IAC 2-5.1-2(f)(3)] [326 IAC 2-5.5-4(a)(3)]

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Pursuant to 326 IAC 2-5.1-2(f)(3) and 326 IAC 2-5.5-4(a)(3):

- (a) An annual notification shall be submitted by an authorized individual to the Office of Air Quality stating whether or not the source is in operation and in compliance with the terms and conditions contained in this registration.
- (b) The annual notice shall be submitted in the format attached no later than March 1 of each year to:

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

Indianapolis, IN 46204-2251

- (c) The notification 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.

**B.6 Source Modification Requirement [326 IAC 2-5.5-6(a)]**

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Pursuant to 326 IAC 2-5.5-6(a), an application or notification shall be submitted in accordance with 326 IAC 2 to the Office of Air Quality (OAQ) if the source proposes to construct new emission units, modify existing emission units, or otherwise modify the source.

**B.7 Registrations [326 IAC 2-5.1-2(i)]**

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Pursuant to 326 IAC 2-5.1-2(i), this registration does not limit the source's potential to emit.

**B.8 Preventive Maintenance Plan [326 IAC 1-6-3]**

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- (a) If required by specific condition(s) in Section D of this registration, the Registrant shall prepare and maintain Preventive Maintenance Plans (PMPs) no later than ninety (90) days after issuance of this registration 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 Registrant's control, the PMPs cannot be prepared and maintained within the above time frame, the Registrant may extend the date an additional ninety (90) days provided the Registrant 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 Registrant 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 Registrant to revise its PMPs whenever lack of proper maintenance causes or is the primary contributor to an exceedance of any limitation on emissions.
- (c) To the extent the Registrant is required by 40 CFR Part 60 or 40 CFR Part 63 to have an Operation Maintenance, and Monitoring (OMM) Plan for a unit, such OMM Plan is deemed to satisfy the PMP requirements of 326 IAC 1-6-3 for that unit.

**SECTION C**

**SOURCE OPERATION CONDITIONS**

Entire Source

**Emission Limitations and Standards [326 IAC 2-5.1-2(g)] [326 IAC 2-5.5-4(b)]**

**C.1 Opacity [326 IAC 5-1]**

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

- (a) Opacity shall not exceed an average of forty percent (40%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
- (b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

**C.2 Fugitive Dust Emissions [326 IAC 6-4]**

The Registrant 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).

## SECTION D.1

## OPERATION CONDITIONS

Facility Description [326 IAC 2-5.1-2(f)(2)] [326 IAC 2-5.5-4(a)(2)]:

- (a) One (1) Alodine Dip Tank operation, identified as EU-01, consisting of the following:
  - (1) One (1) alodine dip tank line, identified as Alodine Line 1, constructed in August, 2006, for coating aluminum products, consisting of the following:
    - (A) seven (7) dip tanks for cleaning, rinsing, and coating with a combined maximum throughput capacity of 3,684 pounds per hour; and
    - (B) two (2) natural gas-fired drying ovens, one constructed in January, 2005 with a maximum heat input of 0.250 MMBtu/hr and exhausting through Stack SV-6, and one (1) constructed in 2009 with a maximum heat input capacity of 0.250 MMBtu/hr and exhausting through Stack SV-7.
  - (2) One (1) alodine dip tank line, identified as Alodine Line 2, constructed in August, 2010, for coating aluminum products, consisting of the following:
    - (A) eleven (11) dip tanks for cleaning, rinsing, and coating with a combined maximum throughput capacity of 10,892 pounds per hour; and
    - (B) two (2) natural gas-fired drying ovens, one constructed in August, 2010 with a maximum heat input of 0.500 MMBtu/hr and exhausting to atmosphere, and one (1) constructed in August, 2010 with a maximum heat input capacity of 0.900 MMBtu/hr and exhausting to atmosphere.
- (b) One (1) Manganese Phosphate Line, identified as EU-02, constructed in June, 2004, with a maximum throughput capacity of 3,479 pounds per hour, consisting of eight (8) tanks, exhausting to stacks SV-01, SV-02, and SV-03.  
  
Under 40 CFR 63, Subpart WWWW, this facility is considered and affected source.
- (c) One (1) Tumble Blast Line, constructed before 2010, identified as EU-03, consisting of the following:
  - (1) One (1) Wheelabrator blast unit, identified as Wheelabrator 1, constructed in April, 2004, with a maximum throughput capacity of 2,100 pounds per hour, with dry filters for particulate control, exhausting through stacks SV-04 and SV-05;
  - (2) One (1) Wheelabrator blast unit, identified as Wheelabrator 2, with a maximum throughput capacity of 2,100 pounds per hour, with dry filters for particulate control, exhausting through stacks SV-04 and SV-05;
  - (3) One (1) Wheelabrator blast unit, identified as Wheelabrator 3, constructed in July, 2007, with a maximum throughput capacity of 2,100 pounds per hour, with dry filters for particulate control, exhausting to atmosphere;
  - (4) One (1) Rotofinish blast unit, identified as Rotofinish 1, with a maximum throughput capacity of 1,800 pounds per hour, with dry filters for particulate control, exhausting to atmosphere; and
  - (5) One (1) Rotofinish blast unit, identified as Rotofinish 2, constructed in June, 2005, with

a maximum throughput capacity of 1,800 pounds per hour, with dry filters for particulate control, exhausting to atmosphere.

- (d) Eight (8) natural gas-fired combustion units, serving as make-up air units or space heaters, identified as EU-04, consisting of the following:
- (1) One (1) King 6000 Air Make-up Air Unit, constructed in January, 2003, with a maximum heat input capacity of 2.592 MMBtu/hr, exhausting to atmosphere;
  - (2) One (1) Titan Air Make-up unit, constructed in January, 1997, with a maximum heat input capacity of 3.168 MMBtu/hr, exhausting to atmosphere;
  - (3) One (1) Ceiling Tube Heater, constructed in January, 1997, with a maximum heat input capacity of 0.100 MMBtu/hr, exhausting to atmosphere;
  - (4) One (1) Ceiling Tube Heater, constructed in January, 1998, with a maximum heat input capacity of 0.150 MMBtu/hr, exhausting to atmosphere;
  - (5) One (1) Ceiling Tube Heater, constructed in January, 1998, with a maximum heat input capacity of 0.150 MMBtu/hr, exhausting to atmosphere;
  - (6) One (1) Ceiling Tube Heater, constructed in January, 1999, with a maximum heat input capacity of 0.125 MMBtu/hr, exhausting to atmosphere;
  - (7) One (1) Front Office Heater, constructed in January, 2003, with a maximum heat input capacity of 0.120 MMBtu/hr, exhausting to atmosphere;
  - (8) One (1) QA Office Heater, constructed in January, 1999, with a maximum heat input capacity of 0.100 MMBtu/hr, exhausting to atmosphere; and
  - (9) One (1) Paint cure oven, approved for construction in 2011, with a maximum heat input capacity of 0.4 MMBtu/hr.
- (e) One (1) Powder Coat Spray Paint Booth, identified as EU-05, approved for construction in 2011, with one (1) HVLP spray nozzle with a maximum spray capacity of 7.5 pounds of material per hour, to coat die cast magnesium parts, using dry filters for particulate control, and exhausting through stack S-09.

(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 2-5.1-2(f)(1)] [326 IAC 2-5.5-4(a)(1)]**

#### **D.1.1 Preventive Maintenance Plan [326 IAC 1-6-3]**

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

#### **D.1.2 Particulate Emissions Standards [326 IAC 6-3-2]**

Pursuant to 326 IAC 6-3-2(d), particulate emissions from the Powder Spray Paint Booth, identified as EU-05, shall be controlled by a dry particulate filter, waterwash, or equivalent control device, subject to the following:

- (a) The source shall operate the control device at all times the powder spray paint

booth is operating and must operate in accordance with the manufacturer's specifications;

- (b) If overspray is visibly detected at the exhaust or accumulates on the ground, the source shall inspect the control device and either of the following no later than four (4) hours after such observation:
  - (i) Repair control device so that no overspray is visibly detectable at the exhaust or accumulates on the ground;
  - (ii) Operate equipment so that no overspray is visibly detected at the exhaust or accumulates on the ground.
- (c) If overspray is visibly detected, the source shall maintain a record of the action taken as a result of the inspection, any repairs of the control device, or change in operations, so that overspray is not visibly detected at the exhaust or accumulates on the ground. These records must be maintained for five (5) years.

## SECTION E.1

## OPERATION CONDITIONS

Facility Description [326 IAC 2-5.1-2(f)(2)] [326 IAC 2-5.5-4(a)(2)]:

- (b) One (1) Manganese Phosphate Line, identified as EU-02, constructed in June, 2004, with a maximum throughput capacity of 3,479 pounds per hour, consisting of eight (8) tanks, exhausting to atmosphere.

Under 40 CFR 63, Subpart WWWWWW, this facility is considered and affected source.

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

### E.1.1 General Provisions Relating to National Emissions Standards for Hazardous Air Pollutants (NESHAP) [40 CFR Part 63, Subpart A] [326 IAC 12-1]

Pursuant to 40 CFR 63, Subpart A, the Registrant shall comply with the provisions of 40 CFR Part 63, Subpart A – General Provisions, which are incorporated by reference as 326 IAC 12-1, as specified in 40 CFR Part 63, Subpart WWWWWW in accordance with schedule in 40 CFR 63 Subpart WWWWWW.

### E.1.2 National Emissions Standards for Hazardous Air Pollutants (NESHAP) for Area Source Standards for Plating and Polishing Operations [40 CFR Part 63, Subpart WWWWWW] [326 IAC 12-1]

The Registrant, which engages in dip coating using manganese phosphate, shall comply with the following provisions of 40 CFR Part 63, Subpart WWWWWW (included as Attachment A of this permit), with a compliance date of July 1, 2010:

- (1) 40 CFR 63.11507
- (2) 40 CFR 63.11508
- (3) 40 CFR 63.11509
- (4) 40 CFR 63.11510
- (5) 40 CFR 63.11511

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

**REGISTRATION  
ANNUAL NOTIFICATION**

This form should be used to comply with the notification requirements under 326 IAC 2-5.1-2(f)(3) and 326 IAC 2-5.5-4(a)(3).

<b>Company Name:</b>	Custom Coating, Inc.
<b>Address:</b>	1937 Jacob Street
<b>City:</b>	Auburn, Indiana 46706
<b>Phone Number:</b>	source general phone
<b>Registration No.:</b>	033-28551-00105

I hereby certify that Custom Coating, Inc. is :

- still in operation.
- no longer in operation.
- in compliance with the requirements of Registration No. 033-28551-00105.
- not in compliance with the requirements of Registration No. 033-28551-00105.

I hereby certify that Custom Coating, Inc. is :

<b>Authorized Individual (typed):</b>
<b>Title:</b>
<b>Signature:</b>
<b>Phone Number:</b>
<b>Date:</b>

If there are any conditions or requirements for which the source is not in compliance, provide a narrative description of how the source did or will achieve compliance and the date compliance was, or will be achieved.

<b>Noncompliance:</b>

## Attachment A

### NESHAP 40 CFR Part 63, Subpart WWWW Requirements

For

Custom Coating, Inc., 1937 Jacob Street, Auburn, Indiana 46706

Registration No. 033-28551-00105

### Subpart WWWW—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-electrolytic 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.

(v) Electroforming.

(vi) Electropolishing.

(2) An area source of HAP emissions 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]

#### § 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) Thermal spraying conducted to repair surfaces.

(5) Dry mechanical polishing conducted to restore the original finish to a surface to apply to restoring the original finish.

(6) Any plating or polishing process that does not use any material that contains cadmium, chromium, lead, or nickel in amounts of 0.1 percent or more by weight, or that contains manganese in amounts of 1.0 percent or more by weight, as reported on the Material Safety Data Sheet for the material.

(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.

## § 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, as defined in §63.11511, "What definitions apply to this subpart?", in the bath of the affected tank 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 tank bath, as in the original make-up of the tank.

(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 tank upon start-up. 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 equipment 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, or HEPA filter, according to paragraphs (f)(1)(i) and (ii) of this section.

(i) You must operate all capture and control devices according to the manufacturer's specifications and instructions.

(ii) 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.

(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 or HEPA filter, according to paragraphs (f)(2)(i) and (ii) of this section.

(i) You must operate all capture and control devices according to the manufacturer's specifications and instructions.

(ii) 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.

(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.

## § 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 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 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 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 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 start-up, 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, fabric filter, 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 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 purchased 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.

(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 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 by operating the affected tank with a cover, you must demonstrate continuous compliance according to paragraphs (d)(6)(i) through (ii) 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 cover your tanks to comply with this subpart, 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.

## **§ 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 start up your new affected source after July 1, 2008, you must submit an Initial Notification not later than 120 calendar days after 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) and (2) 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.

(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 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 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 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 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.

## 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 that is used for electroplating, electroforming, electropolishing, or other metal coating processes at a plating and polishing facility.

*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.

*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 than 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 with any of the plating and polishing metal HAP, as defined in this section, using hard-faced abrasive wheels or belts and where no liquids or fluids are used to trap the removed metal particles.

*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 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.

*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.

*Flash electroplating* means an electrolytic 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 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.

*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 spraying operation that applies one or more plating and polishing metal HAP, as defined in this section, to parts and products used in manufacturing. These processes include but are not limited to: Non-chromium electroplating; electroforming; electropolishing; other non-electrolytic metal coating processes, such as chromate conversion coating, nickel acetate sealing, sodium dichromate sealing, and manganese phosphate coating; and thermal spraying.

*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, 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, 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.

*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, and does not contain manganese in amounts greater than or equal to 1.0 percent by weight, 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 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 thermal spraying or dry polishing with machines.

*PM* means solid or particulate matter that is emitted into the air.

*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.

*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 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.

*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.

## **§ 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]**

## Indiana Department of Environmental Management Office of Air Quality

### Technical Support Document (TSD) for a Registration

<b>Source Description and Location</b>
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<b>Source Name:</b>	<b>Custom Coating, Inc.</b>
<b>Source Location:</b>	<b>1937 Jacob Street, Auburn, Indiana 46706</b>
<b>County:</b>	<b>DeKalb</b>
<b>SIC Code:</b>	<b>3471</b>
<b>Registration No.:</b>	<b>033-28551-00105</b>
<b>Permit Reviewer:</b>	<b>Jack Harmon</b>

On October 8, 2009, the Office of Air Quality (OAQ) received an application from Custom Coating, Inc. related to the registration of its existing metal products surface coating plant. Additional information was received on October 5, 2009, November 23, 2009, March 19, 2010, July 21, 2010, August 20, 2010, March 24, 2011, and April 21, 2011..

<b>Existing Approvals</b>
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There have been no previous approvals issued to this source.

<b>County Attainment Status</b>
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The source is located in DeKalb County.

Pollutant	Designation
SO <sub>2</sub>	Better than national standards.
CO	Unclassifiable or attainment effective November 15, 1990.
O <sub>3</sub>	Unclassifiable or attainment effective June 15, 2004, for the 8-hour ozone standard. <sup>1</sup>
PM <sub>10</sub>	Unclassifiable effective November 15, 1990.
NO <sub>2</sub>	Cannot be classified or better than national standards.
Pb	Not designated.
<sup>1</sup> Unclassifiable or attainment effective October 18, 2000, for the 1-hour ozone standard which was revoked effective June 15, 2005. Unclassifiable or attainment effective April 5, 2005, for PM <sub>2.5</sub> .	

- (a) **Ozone Standards**  
 Volatile organic compounds (VOC) and Nitrogen Oxides (NOx) are regulated under the Clean Air Act (CAA) for the purposes of attaining and maintaining the National Ambient Air Quality Standards (NAAQS) for ozone. Therefore, VOC and NOx emissions are considered when evaluating the rule applicability relating to ozone. DeKalb County has been designated as attainment or unclassifiable for ozone. Therefore, VOC and NOx emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.
- (b) **PM<sub>2.5</sub>**  
 DeKalb County has been classified as attainment for PM<sub>2.5</sub>. On May 8, 2008 U.S. EPA promulgated the requirements for Prevention of Significant Deterioration (PSD) for PM<sub>2.5</sub> emissions. These rules became effective on July 15, 2008. Indiana has three years from the publication of these rules to revise its PSD rules, 326 IAC 2-2, to include those requirements. The May 8, 2008 rule revisions require IDEM to regulate PM<sub>10</sub> emissions as a surrogate for PM<sub>2.5</sub> emissions until 326 IAC 2-2 is revised.

- (c) Other Criteria Pollutants  
DeKalb 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

The fugitive emissions of criteria pollutants and hazardous air pollutants are counted toward the determination of 326 IAC 2-5.1-2 (Registrations) applicability.

### Background and Description of Emission Units and Pollution Control Equipment

The Office of Air Quality (OAQ) has reviewed an application, submitted by Custom Coating, Inc. on October 8, 2009, relating to the registration of its surface coating operation currently in existence in DeKalb County, Indiana. The source was constructed prior to July 1, 1990. The total potential emissions from this source indicate that the source is exempt from permit requirements; however, the source has requested to add a powder coat spray booth for future business that will require a Registration level permit. In the process of this determination, additional information was received on November 23, 2009, December 10, 2009, December 16, 2009, March 19, 2009, July 21, 2010, August 27, 2010, and March 24, 2011.

The source consists of the following existing emission units:

- (a) One (1) Alodine Dip Tank operation, identified as EU-01, consisting of the following:
- (1) One (1) alodine dip tank line, identified as Alodine Line 1, constructed in August, 2006, for coating aluminum products, consisting of the following:
    - (A) seven (7) dip tanks for cleaning, rinsing, and coating with a combined maximum throughput capacity of 3,684 pounds per hour; and
    - (B) two (2) natural gas-fired drying ovens, one constructed in January, 2005 with a maximum heat input of 0.250 MMBtu/hr and exhausting through Stack SV-6 , and one (1) constructed in 2009 with a maximum heat input capacity of 0.250 MMBtu/hr and exhausting through Stack SV-7.
  - (2) One (1) alodine dip tank line, identified as Alodine Line 2, constructed in August, 2010, for coating aluminum products, consisting of the following:
    - (A) eleven (11) dip tanks for cleaning, rinsing, and coating with a combined maximum throughput capacity of 10,892 pounds per hour; and
    - (B) two (2) natural gas-fired drying ovens, one constructed in August, 2010 with a maximum heat input of 0.500 MMBtu/hr and exhausting to atmosphere , and one (1) constructed in August, 2010 with a maximum heat input capacity of 0.900 MMBtu/hr and exhausting to atmosphere.
- (b) One (1) Manganese Phosphate Line, identified as EU-02, constructed in June, 2004, with a maximum throughput capacity of 3,479 pounds per hour, consisting of eight (8) tanks, exhausting to stacks SV-01, SV-02, and SV-03.

Under 40 CFR 63, Subpart WWWW, this facility is considered and affected source.

- (c) One (1) Tumble Blast Line, constructed before 2010, identified as EU-03, consisting of the following:

- (1) One (1) Wheelabrator blast unit, identified as Wheelabrator 1, constructed in April, 2004, with a maximum throughput capacity of 2,100 pounds per hour, with dry filters for particulate control, exhausting through stacks SV-04 and SV-05;
  - (2) One (1) Wheelabrator blast unit, identified as Wheelabrator 2, with a maximum throughput capacity of 2,100 pounds per hour, with dry filters for particulate control, exhausting through stacks SV-04 and SV-05;
  - (3) One (1) Wheelabrator blast unit, identified as Wheelabrator 3, constructed in July, 2007, with a maximum throughput capacity of 2,100 pounds per hour, with dry filters for particulate control, exhausting to atmosphere;
  - (4) One (1) Rotofinish blast unit, identified as Rotofinish 1, with a maximum throughput capacity of 1,800 pounds per hour, with dry filters for particulate control, exhausting to atmosphere; and
  - (5) One (1) Rotofinish blast unit, identified as Rotofinish 2, constructed in June, 2005, with a maximum throughput capacity of 1,800 pounds per hour, with dry filters for particulate control, exhausting to atmosphere.
- (d) Eight (8) natural gas-fired combustion units, serving as make-up air units or space heaters, identified as EU-04, consisting of the following:
- (1) One (1) King 6000 Air Make-up Air Unit, constructed in January, 2003, with a maximum heat input capacity of 2.592 MMBtu/hr, exhausting to atmosphere;
  - (2) One (1) Titan Air Make-up unit, constructed in January, 1997, with a maximum heat input capacity of 3.168 MMBtu/hr, exhausting to atmosphere;
  - (3) One (1) Ceiling Tube Heater, constructed in January, 1997, with a maximum heat input capacity of 0.100 MMBtu/hr, exhausting to atmosphere;
  - (4) One (1) Ceiling Tube Heater, constructed in January, 1998, with a maximum heat input capacity of 0.150 MMBtu/hr, exhausting to atmosphere;
  - (5) One (1) Ceiling Tube Heater, constructed in January, 1998, with a maximum heat input capacity of 0.150 MMBtu/hr, exhausting to atmosphere;
  - (6) One (1) Ceiling Tube Heater, constructed in January, 1999, with a maximum heat input capacity of 0.125 MMBtu/hr, exhausting to atmosphere;
  - (7) One (1) Front Office Heater, constructed in January, 2003, with a maximum heat input capacity of 0.120 MMBtu/hr, exhausting to atmosphere; and
  - (8) One (1) QA Office Heater, constructed in January, 1999, with a maximum heat input capacity of 0.100 MMBtu/hr, exhausting to atmosphere.
  - (9) One (1) Paint cure oven, approved for construction in 2011, with a maximum heat input capacity of 0.4 MMBtu/hr.
- (e) One (1) Powder Coat Spray Paint Booth, identified as EU-05, approved for construction in 2011, with one (1) HVLP spray nozzle with a maximum spray capacity of 7.5 pounds of material per hour, to coat die cast magnesium parts, using dry filters for particulate control, and exhausting through stack S-09. This unit has a natural gas curing oven, with a maximum heat input capacity

of 0.4 MMBtu/hr, whose calculations are included in the combustion table shown in Appendix A of this document.

**Enforcement Issues**

There are no pending enforcement actions related to this source. IDEM is aware that equipment has been constructed and operated prior to receipt of the permit. The source is currently exempt from a permit, but wishes to add a new powder coat spray booth EU-05 for future potential business that would put it at a Registration level, but this new equipment is not yet installed nor operated. IDEM has reviewed this matter and will not take action. This proposed approval is intended to satisfy the requirements of the Registration rules.

**Emission Calculations**

See Appendix A of this TSD for detailed emission calculations.

**Permit Level Determination –Registration**

The following table reflects the unlimited potential to emit (PTE) of the entire source before controls. Control equipment is not considered federally enforceable until it has been required in a federally enforceable permit.

<b>Unlimited Potential to Emit (PTE) of the Entire Source (tons per year)</b>									
<b>Emissions Units</b>	<b>PM</b>	<b>PM10</b>	<b>PM2.5</b>	<b>SO2</b>	<b>NOx</b>	<b>VOC</b>	<b>CO</b>	<b>Worst HAP</b>	<b>Total HAPs</b>
<u>EU-01</u> Alodine Dip Tank Lines									
Alodine Line 1	0.00	0.00	0.00	0.00	0.00	0.064	0.00	1.00E-01 (hydrogen flouride)	1.00E-01
Alodine Line 2	0.00	0.00	0.00	0.00	0.00	0.008	0.00		
<u>EU-02</u> Manganese Phosphate Line	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10 (diethanolamine)	0.10
<u>EU-03</u> Tumble Blast Line	3.00	3.00	3.00	0.00	0.00	0.00	0.00	0.00E+00	0.00E+00
<u>EU-04</u> Combustion Dryers/Heaters	0.07	0.29	0.29	0.02	3.86	0.21	3.24	Hexane 7.257E-02	7.278E-02
<u>EU-05</u> Powder Coat Spray Booth	3.29	3.29	3.29	0.00	0.00	0.00	0.00	0.00E+00	0.00E+00
<b>PTE of Entire Source</b>	<b>6.36</b>	<b>6.58</b>	<b>6.58</b>	<b>0.02</b>	<b>3.86</b>	<b>0.28</b>	<b>3.09</b>	<b>1.00E-01</b>	<b>2.727E-01</b>
<b>Registration Levels</b>	<b>&gt;5, &lt;25</b>	<b>&gt;5, &lt;25</b>	<b>&gt;5, &lt;25</b>	<b>&gt;10, &lt;25</b>	<b>&gt;10, &lt;25</b>	<b>&lt;25</b>	<b>&gt;25, &lt;100</b>	<b>&lt;10</b>	<b>&lt;25</b>
* Under the Part 70 Permit program (40 CFR 70), particulate matter with an aerodynamic diameter less than or equal to a nominal 10 micrometers (PM10), not particulate matter (PM), is considered as a "regulated air pollutant".									

- (a) The potential to emit (PTE) (as defined in 326 IAC 2-1.1-1(16)) of PM, PM10, and VOC pollutants are within the ranges listed in 326 IAC 2-5.1-2(a)(1). Therefore, the source is subject to the provisions of 326 IAC 2-5.1-2 (Registrations). The potential to emit of PM, PM10, and VOC are less than the levels listed in 326 IAC 2-6.1, MSOP. Therefore, a Registration will be issued.
- (b) The potential to emit (PTE) (as defined in 326 IAC 2-1.1-1(16)) of any single HAP is less than ten (10) tons per year and the PTE of a combination of HAPs is less than twenty-five (25) tons per

year. Therefore, this source is an area source under Section 112 of the Clean Air Act (CAA) and not subject to the provisions of 326 IAC 2-7.

### **Federal Rule Applicability Determination**

#### New Source Performance Standards (NSPS)

- (a) The requirements of the New Source Performance Standard for Volatile Organic Liquid Storage, 40 CFR 60, Subpart Kb (326 IAC 12), are not included in the permit, since each of the dip tanks containing VOC materials has a storage capacity of less than 19,800 gallons each. Therefore, the requirements of 40 CFR Part 60, Subpart Kb do not apply.
- (b) There are no other New Source Performance Standards (NSPS) (326 IAC 12 and 40 CFR Part 60) included in the permit.

#### National Emission Standards for Hazardous Air Pollutants (NESHAP)

- (c) The requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAPs) for Hard and Decorative Chromium Electroplating and Chromium Anodizing Tanks, 40 CFR 63, Subpart N, are not included in the permit, since the coating process does not contain any chromium materials. Therefore, the requirements of 40 CFR 63 Subpart N do not apply.
- (d) The requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAPs) for Surface Coating of Miscellaneous Metal Parts and Products, 40 CFR 63, Subpart MMMM, are not included in the permit, since the is considered an area source for HAPs. Therefore, the requirements of 40 CFR 63 Subpart MMMM do not apply.
- (e) The requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAPs) for Paint Stripping and Miscellaneous Surface Coating Operations at Area Sources, 40 CFR 63, Subpart HHHHHH, are not included in the permit, since the source does no stripping processes, does not perform autobody refinishing, and the spray booth materials do not use the target HAPs of Chromium, Lead, Manganese, Nickel, or Cadmium. Therefore, the requirements of 40 CFR 63 Subpart HHHHHH do not apply.
- (f) The Manganese Phosphate Coating line (EU-02) is subject to the National Emission Standards for Hazardous Air Pollutants for National Emission Standards for Hazardous Air Pollutants: Area Source Standards for Plating and Polishing Operations (40 CFR 63, Subpart WWWWWW, because it is a surface Coating facility that uses manganese phosphate as a coating. Therefore, EU-02, the Manganese Phosphate Line 2 is subject to the requirements of 40 CFR 60, Subpart WWWWWW.

Applicable portions of the NESHAP are the following:

- (1) 40 CFR 63.11507
- (2) 40 CFR 63.11508
- (3) 40 CFR 63.11509
- (4) 40 CFR 63.11510
- (5) 40 CFR 63.11511

The requirements of 40 CFR 63, Subpart WWWWWW are shown in their entirety in Attachment A of the permit.

The requirements of 40 CFR Part 63, Subpart A – General Provisions, which are incorporated as 326 IAC 20-1-1, apply to the EU-02 Manhanese Phosphate Line 2 except as otherwise specified in 40 CFR 63, Subpart WWWWWW.

- (g) There are no other National Emission Standards for Hazardous Air Pollutants (NESHAPs) (326 IAC 14, 326 IAC 20 and 40 CFR Part 63) included in the permit.

Compliance Assurance Monitoring (CAM)

- (h) Pursuant to 40 CFR 64.2, Compliance Assurance Monitoring (CAM) is not included in the permit, because the unlimited potential to emit of the source is less than the Title V major source thresholds and the source is not required to obtain a Part 70 or Part 71 permit.

<b>State Rule Applicability Determination</b>
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The following state rules are applicable to the source:

- (a) 326 IAC 2-5.1-2 (Registrations)  
Registration applicability is discussed under the Permit Level Determination – Registration section above.
- (b) 326 IAC 2-4.1 (Major Sources of Hazardous Air Pollutants (HAP))  
The potential to emit of any single HAP is less than ten (10) tons per year and the potential to emit of a combination of HAPs is less than twenty-five (25) tons per year. Therefore, this source is an area source under Section 112 of the Clean Air Act (CAA) and not subject to the provisions of 326 IAC 2-4.1.
- (c) 326 IAC 2-6 (Emission Reporting)  
This source is not subject to 326 IAC 2-6, because it is not required to have an operating permit under 326 IAC 2-7 (Part 70), it is not located in Lake, Porter, or LaPorte County, and it does not emit lead into the ambient air at levels equal to or greater than 5 tons per year. Therefore, 326 IAC 2-6 does not apply.
- (d) 326 IAC 5-1 (Opacity Limitations)  
Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), opacity shall meet the following, unless otherwise stated in this permit:
- (1) Opacity shall not exceed an average of forty percent (40%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
  - (2) 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.
- (e) 326 IAC 6-2-4 (Particulate Emissions Limitations for Sources of Indirect Heating)  
This source is not subject to the requirements of 326 IAC 6-2 because the drying ovens, make-up Air units, and space heaters do not meet the definition of indirect heating sources. Therefore, the requirements of 326 IAC 6-2-4 do not apply.
- (f) 326 IAC 6-3 (Particulate Emissions Limitations for Manufacturing Processes)
- (1) This source is not subject to the requirements of 326 IAC 6-3-2, because it operates a surface coating operation using dip tanks. Pursuant to 326 IAC 6-3-1(b)(5), surface coating using dip coating is exempt from the requirements of this rule. Therefore, the provisions of 326 IAC 6-3 do not apply.
  - (2) The powder coat spray booth, identified as EU-05 is subject to the requirements of 326 IAC 6-3-2 because its uncontrolled potential to emit particulate is greater than 0.551

pounds particulate per hour. Therefore, the provisions of 326 IAC 6-3-2 apply.

Pursuant to 326 IAC 6-3-2(d), particulate emissions from the Powder Spray Paint Booth, identified as EU-05, shall be controlled by a dry particulate filter, waterwash, or equivalent control device, subject to the following:

- (A) The source shall operate the control device at all times the powder spray paint booth is operating and must operate in accordance with the manufacturer's specifications;
- (B) If overspray is visibly detected at the exhaust or accumulates on the ground, the source shall inspect the control device and either of the following no later than four (4) hours after such observation:
  - (i) Repair control device so that no overspray is visibly detectable at the exhaust or accumulates on the ground;
  - (ii) Operate equipment so that no overspray is visibly detected at the exhaust or accumulates on the ground.

If overspray is visibly detected, the source shall maintain a record of the action taken as a result of the inspection, any repairs of the control device, or change in operations, so that overspray is not visibly detected at the exhaust or accumulates on the ground. These records must be maintained for five (5) years.

- (3) The five blast units comprising the Tumble Blast Line, identified as EU-03, are not subject to the requirements of 326 IAC 6-3-2 because each unit does not have the potential to emit particulate greater than 0.551 pounds per hour. Although the Tumble Blast Line consists of five blast units, each unit operates independently, and one part may be processed in any one of the blast units, but never all of the blast units. Therefore, each unit is considered its own manufacturing process, and, therefore, was evaluated separately. Therefore, the requirements of 326 IAC 6-3-2 do not apply.
- (g) 326 IAC 6-4 (Fugitive Dust Emissions Limitations)  
Pursuant to 326 IAC 6-4 (Fugitive Dust Emissions Limitations), the source 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.
- (h) 326 IAC 6-5 (Fugitive Particulate Matter Emission Limitations)  
The source is not subject to the requirements of 326 IAC 6-5, because the source does not have potential fugitive particulate emissions greater than 25 tons per year. Therefore, 326 IAC 6-5 does not apply.
- (i) 326 IAC 8-1-6 (VOC Rules: General Reduction Requirements for New Facilities)  
Each of the emission units at this source is not subject to the requirements of 326 IAC 8-1-6, since the unlimited VOC potential emissions from each emission unit is less than twenty-five (25) tons per year.
- (j) 326 IAC 8-2-9 (VOC Emissions: Surface Coating Limitations for Miscellaneous Metal Coating)  
Pursuant to 326 IAC 8-2-1, the provisions of 326 IAC 8-2-9 apply to miscellaneous metal coating operations constructed after July 1, 1990, located in any county, and which have actual emissions of greater than fifteen (15) pounds per day before add-on controls. The Powder Coat Spray Paint Booth, identified as EU-05, uses powder coatings that contain no VOCs. Therefore, the requirements of 326 IAC 8-2-9 do not apply.
- (k) 326 IAC 12 (New Source Performance Standards)

See Federal Rule Applicability Section of this TSD.

- (l) 326 IAC 20 (Hazardous Air Pollutants)  
See Federal Rule Applicability Section of this TSD.

<b>Conclusion and Recommendation</b>
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Unless otherwise stated, information used in this review was derived from the application and additional information submitted by the applicant. An application for the purposes of this review was received on October 8, 2009, and additional information was received on November 23, 2009, December 10, 2009, December 16, 2009, March 19, 2009, July 21, 2010, August 27, 2010, March 24, 2011, and April 21, 2011.

The operation of this source shall be subject to the conditions of the attached proposed Registration No. 033-28551-00105. The staff recommends to the Commissioner that this Registration be approved.

<b>IDEM Contact</b>
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- (a) Questions regarding this proposed permit can be directed to Jack Harmon at the Indiana Department of 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) 233-4228 or toll free at 1-800-451-6027 extension 3-4228.
- (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.in.gov/idem](http://www.in.gov/idem)

**Appendix A: Emissions Calculations  
Emissions Summary  
Uncontrolled and Unlimited Emissions**

**Company Name:** Custom Coatings, Inc.  
**Address City IN Zip:** 1937 Jacob Street, Auburn, IN 46706  
**Permit Number:** 033-28551-00105  
**Plt ID:** 033-00105  
**Reviewer:** Jack Harmon  
**Date:** August, 2010

**Unlimited and Uncontrolled Emissions (tons per year)**

<b>Emissions Units</b>	<b>PM</b>	<b>PM10</b>	<b>PM2.5</b>	<b>SO2</b>	<b>Nox</b>	<b>VOC</b>	<b>CO</b>	<b>Worst HAP</b>	<b>Total HAPs</b>
<b>EU-01</b> Alodine Dip Tank Lines									
Alodine Line 1	0.00	0.00	0.00	0.00	0.00	0.064	0.00	1.00E-01	1.00E-01
Alodine Line 2	0.00	0.00	0.00	0.00	0.00	0.008	0.00	(hydrogen flouride)	
<b>EU-02</b> Manganese Phosphate Line	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00E-01 (diethanolamine)	1.00E-01
<b>EU-03</b> Tumble Blast Line	3.00	3.00	3.00	0.00	0.00	0.00	0.00	0.00E+00	0.00E+00
<b>EU-04</b> Combustion Dryers/Heaters	0.07	0.29	0.29	0.02	3.86	0.21	3.24	Hexane 7.26E-02	7.27E-02
<b>EU-05</b> Powder Coat Spray Booth	3.29	3.29	3.29	0.00	0.00	0.00	0.00	0.00E+00	0.00E+00
<b>Total Emissions</b>	<b>6.36</b>	<b>6.58</b>	<b>6.58</b>	<b>0.02</b>	<b>3.86</b>	<b>0.28</b>	<b>3.24</b>	<b>1.00E-01</b>	<b>2.727E-01</b>
<b>Registration Thresholds</b>	<b>&gt;5, &lt;25</b>	<b>&gt;5, &lt;25</b>	<b>&gt;5, &lt;25</b>	<b>&gt;10, &lt;25</b>	<b>&gt;10, &lt;25</b>	<b>*</b>	<b>&gt;25, &lt;100</b>	<b>&lt;10</b>	<b>&lt;25</b>

\* for registrations, >5, <25 if pollution control equipment required to comply with 326 IAC 8.  
for registrations, >10, <25 if pollution control equipment NOT required to comply with 326 IAC 8.

**Appendix A: Emissions Calculations**  
**VOC and Particulate**  
**From Surface Coating Operations**  
**Alodine Lines 1 and 2**  
**Company Name: Custom Coatings, Inc.**  
**Address City IN Zip: 1937 Jacob Street, Auburn, IN 46706**  
**Permit Number: 033-28551-00105**  
**Pit ID: 033-00105**  
**Reviewer: Jack Harmon**  
**Date: August, 2010**

**Alodine Dip Tank Operation EU-01 (Alodine Lines 1 and 2 combined)**

Material	VOC Content (%) By Weight	2010 Maximum Usage (lb/yr)	2010 Maximum Operating Hours per year	2010 Maximum Usage (lb/hr)	VOC Emissions (lb/hr)	VOC Emissions (lb/year)	VOC Emissions (tons/yr)
Alodine 5200	1.70%	1798.98	2080	0.86	0.015	128.80	0.064
Alodine 5220	0.10%	3597.96	2080	1.73	0.002	15.15	0.008
<b>TOTALS</b>		<b>5396.94</b>					<b>0.072</b>

METHODOLOGY

Since so many different types of parts are coated on these lines, it was determined that the best method to calculate emissions is to use actual parts coated and actual materials purchased for the latest year of 2010.

Actual 2010 hours of operation was 8 hours/day x 5 days/week x 52 weeks/year = 2,080 hours per year.

Maximum Usage is based on 2010 total annual purchases of raw material coating provided by the source, divided by the actual operating hours for the year of 2,080 to obtain lb/hr usage.

VOC content by weight was provided by the MSDS sheets provided by the source.

VOC emissions (lb/hr) = Maximum usage (lb/hr) x VOC content (%)

VOC emissions (lb/yr) = VOC emissions (lb/hr) x 8760 (hrs/yr)

VOC emissions (tons/yr) = VOC emissions (lb/yr) / 2000 (lb/yr)

Alodine 5200 is the main coating and Alodine 5220 is the replenisher, so both will be used in the mixture of coating applied; therefore, the worst case scenario is the sum of both materials.

**Appendix A: Emissions Calculations  
 VOC and Particulate  
 From Surface Coating Operations  
 Manganese Phosphate Line  
 Company Name: Custom Coatings, Inc.  
 Address City IN Zip: 1937 Jacob Street, Auburn, IN 46706  
 Permit Number: 033-28551-00105  
 Pit ID: 033-00105  
 Reviewer: Jack Harmon  
 Date: August, 2010**

**Manganese Phosphate Coating Line EU-02**

Material	VOC Content (%) By Weight	2010 Maximum Usage (lb/yr)	2010 Maximum Operating Hours per year	2010 Maximum Usage (lb/hr)	VOC Emissions (lb/hr)	VOC Emissions (lb/year)	VOC Emissions (tons/yr)
Parcolac 2945	0.00%	842.17	2080	0.40	0.000	0.00	0.000
<b>TOTALS</b>		842.17					<b>0.000</b>

**METHODOLOGY**

Since so many different types of parts are coated on these lines, it was determined that the best method to calculate emissions is to use actual parts coated and actual materials purchased for the latest year of 2010. Actual 2010 hours of operation was 8 hours/day x 5 days/week x 52 weeks/year = 2,080 hours per year.

Maximum Usage is based on 2010 total annual purchases of raw material coating provided by the source, divided by the actual operating hours for the year of 2,080 to obtain lb/hr usage.

VOC content by weight was provided by the MSDS sheets provided by the source.

VOC emissions (lb/hr) = Maximum usage (lb/hr) x VOC content (%)

VOC emissions (lb/yr) = VOC emissions (lb/hr) x 8760 (hrs/yr)

VOC emissions (tons/yr) = VOC emissions (lb/yr) / 2000 (lb/yr)

Parcolac 2945 is the only coating used in this operation and is a water-base material containing no measurable VOCs, according to the MSDS sheets.

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

**Company Name:** Custom Coatings, Inc.  
**Address City IN Zip:** 1937 Jacob Street, Auburn, IN 46706  
**Permit Number:** 033-28551-00105  
**Plt ID:** 033-00105  
**Reviewer:** Jack Harmon  
**Date:** August, 2010

	Shot lb/hr	Total Matl.	Total Throughput
Wheelabrator #1	210	2100	2310
Wheelabrator #2	210	2100	2310
Wheelabrator #3	210	2100	2310
Rotofinish #1	180	1800	1980
Rotofinish #2	180	1800	1980
		1980	

**Table 1 - Emission Factors for Abrasives**

Abrasive	Emission Factor (EF)	
	lb PM / lb abrasive	lb PM10 / lb abrasive
Steel Shot	0.00069	0.00069

						Wheelabrator #1	Wheelabrator #2	Wheelabrator #3	Rotofinish #1	Rotofinish #2	Total PM/PM10 Emissions (tons/yr)
<b>Potential to Emit Before Control</b>											
FR = Flow rate of actual abrasive (lb/hr) =	lb/hr (per unit)	210.0	210.0	210.0	180.0	180.0					
w = fraction of time of wet blasting =	%	0	0	0	0	0					
N = number of units =		1	1	1	1	1					
EF = PM emission factor for actual abrasive from Table 1 =	lb PM/ lb abrasive	0.00069	0.00069	0.00069	0.00069	0.00069					
PM10 emission factor ratio for actual abrasive from Table 1 =	lb PM10 / lb PM	0.00069	0.00069	0.00069	0.00069	0.00069					
		<b>PM/PM10</b>	<b>PM/PM10</b>	<b>PM/PM10</b>	<b>PM/PM10</b>	<b>PM/PM10</b>					
Potential to Emit (before control) =	lb/hr	1.4E-01	1.4E-01	1.4E-01	1.2E-01	1.2E-01					
=	lb/day	3.5E+00	3.5E+00	3.5E+00	3.0E+00	3.0E+00					<b>Before Control</b>
=	ton/yr	6.3E-01	6.3E-01	6.3E-01	5.4E-01	5.4E-01					<b>3.0E+00</b>
<b>Potential to Emit After Control</b>											
Emission Control Device Efficiency =		99.0%	99.0%	99.0%	99.0%	99.0%					
Potential to Emit (after control) =	lb/hr	1.4E-03	1.4E-03	1.4E-03	1.2E-03	1.2E-03					
=	lb/day	3.5E-02	3.5E-02	3.5E-02	3.0E-02	3.0E-02					<b>After Control</b>
=	ton/yr	6.3E-03	6.3E-03	6.3E-03	5.4E-03	5.4E-03					<b>3.0E-02</b>

**METHODOLOGY**

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

Potential to Emit (before control) = EF x FR x (1 - w/200) x N (where w should be entered in as a whole number (if w is 50%, enter 50))

Potential to Emit (after control) = [Potential to Emit (before control)] \* [1 - control efficiency]

Potential to Emit (tons/year) = [Potential to Emit (lbs/hour)] x [8760 hours/year] x [ton/2000 lbs]

PM2.5 presumed to be equal to PM10

Actual shot usage 10% of total material throughput

**Appendix A: Emissions Calculations**

**Natural Gas Combustion Only**  
**MM BTU/HR <100**  
**Company Name: Custom Coatings, Inc.**  
**Address City IN Zip: 1937 Jacob Street, Auburn, IN 46706**  
**Permit Number: 033-28551-00105**  
**Plt ID: 033-00105**  
**Reviewer: Jack Harmon**  
**Date: August, 2010**

Heat Input Capacity  
MMBtu/hr

Potential Throughput  
MMCF/yr

8.805

77.1

Emission Factor in lb/MMCF	Pollutant					
	PM*	PM10*	SO2	NOx 100 **see below	VOC 5.5	CO 84
Potential Emission in tons/yr	0.07	0.29	0.02	3.86	0.21	3.24

\*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

Combustion Unit	MMBtu/hr	Installation Date
King Air Makeup Unit	2.592	Jan-03
Titan Air Makeup Unit	3.168	Jan-97
Alodine Line 1 drying oven	0.250	Jan-05
Alodine Line 1 drying oven	0.250	Jan-09
Ceiling Tube Heater	0.125	Jan-99
Ceiling Tube Heater	0.100	Jan-97
Ceiling Tube Heater	0.150	Jan-98
Ceiling Tube Heater	0.150	Jan-98
Alodine Line 2 drying oven	0.500	Aug-10
Alodine Line 2 drying oven	0.900	Aug-10
Front office heater	0.120	Jan-03
QA Office heater	0.100	Jan-99
Paint cure oven	0.400	Approved April, 2011
<b>Total MMBtu/hr</b>	<b>8.805</b>	

**Methodology**

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

Emission Factor in lb/MMcf	HAPs - Organics					Totals
	Benzene 2.1E-03	Dichlorobenz 1.2E-03	Formaldehyd 7.5E-02	Hexane 1.8E+00	Toluene 3.4E-03	
Potential Emission in tons/yr	8.099E-05	4.628E-05	2.892E-03	6.942E-02	1.311E-04	7.257E-02 (Hexane)

Emission Factor in lb/MMcf	HAPs - Metals					Totals
	Lead 5.0E-04	Cadmium 1.1E-03	Chromium 1.4E-03	Manganese 3.8E-04	Nickel 2.1E-03	
Potential Emission in tons/yr	1.928E-05	4.242E-05	5.399E-05	1.466E-05	8.099E-05	2.113E-04

Methodology is the same as page 1. Totals 7.278E-02

The five highest organic and metal HAPs emission factors are provided above.  
 Additional HAPs emission factors are available in AP-42, Chapter 1.4.

**Appendix A: Emissions Calculations  
VOC and Particulate Emissions  
From Powder Coat Spray Booth Operations  
EU-05**

**Company Name: Custom Coatings, Inc.  
Address City IN Zip: 1937 Jacob Street, Auburn, IN 46706  
Permit Number: 033-28551-00105  
Pit ID: 033-00105  
Reviewer: Jack Harmon  
Date: April, 2011**

Process	Maximum Usage (lbs/hr)	Transfer Efficiency (%)	Uncontrolled Particulate (lbs/hr)	Uncontrolled Particulate (tons/yr)	Control Efficiency (%)
EU-05 Powder Coating Spray Booth	7.50	90.00%	0.75	3.29	99%
<b>Total</b>				<b>3.29</b>	

The powder coat painting booth is equipped with a powder coat particulate filter system to recover particulate.

**Methodology**

Uncontrolled Particulate (lbs/hr) = Maximum Usage (lbs/hr) \* Transfer Efficiency (%)

Uncontrolled Particulate (tons/yr) = Maximum Usage (lbs/hr) \* Transfer Efficiency (%) \* 8760 (hrs/yr) \* 1/2000 (ton/lbs)

AP-42, Chapter 42, describes transfer efficiencies for powder coating to be in the range of 90 to 95%. 90% was used in this calculation to be conservative.



# INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

*We Protect Hoosiers and Our Environment.*

*Mitchell E. Daniels Jr.*  
**Governor**

*Thomas W. Easterly*  
**Commissioner**

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

## SENT VIA U.S. MAIL: CONFIRMED DELIVERY AND SIGNATURE REQUESTED

TO: Dennis Davis  
Q & EPA Coordinator  
Custom Coatings, Inc.  
1937 Jacob St.  
Auburn IN 46706

DATE: Apr. 26, 2011

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

SUBJECT: Final Decision  
Registration  
033-28551-00105

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:  
Phillip Gregg Concentra Environmental Health & Safety Services  
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](mailto:jbrush@idem.IN.gov).

Final Applicant Cover letter.dot 11/30/07

# Mail Code 61-53

IDEM Staff	BMILLER 4/26/2011 Custom Coatings, Inc 033-28551-00105 (final)		Type of Mail:  <b>CERTIFICATE OF MAILING ONLY</b>	AFFIX STAMP HERE IF USED AS CERTIFICATE OF MAILING
Name and address of Sender		Indiana Department of Environmental Management Office of Air Quality – Permits Branch 100 N. Senate Indianapolis, IN 46204		

Line	Article Number	Name, Address, Street and Post Office Address	Postage	Handing Charges	Act. Value (If Registered)	Insured Value	Due Send if COD	R.R. Fee	S.D. Fee	S.H. Fee	Rest. Del. Fee
											Remarks
1		Dennis Davis Q& EPA Coordinator Custom Coatings, Inc 1937 Jacob St Auburn IN 46706 (Source CAATS) <b>Via Confirm Delivery</b>									
2		Mr. Steve Christman NISWMD 2320 W 800 S, P.O. Box 370 Ashley IN 46705 (Affected Party)									
3		DeKalb County Commissioners 100 South Main Street Auburn IN 46706 (Local Official)									
4		Ms. Diane Leroy 303 N. Jackson St. Auburn IN 46706 (Affected Party)									
5		Mr. Barry Fordanish R#3 1480 CR 66 Auburn IN 46706 (Affected Party)									
6		Mr. Dave Weilbaker 1423 Urban Ave Auburn IN 46706 (Affected Party)									
7		Auburn City Council and Mayors Office P.O. Box 506 Auburn IN 46706-0506 (Local Official)									
8		Dekalb County Health Department 220 E 7th St #110 Auburn IN 46706 (Health Department)									
9		Daniel & Sandy Trimmer 15021 Yellow River Road Columbia City IN 46725 (Affected Party)									
10		Mr. Charles L. Berger Berger & Berger, Attorneys at Law 313 Main Street Evansville IN 47700 (Affected Party)									
11		21Alive P.O. Box 2121 Fort Wayne IN 46801 (Affected Party)									
12		NBC33 3401 Butler Road Fort Wayne IN 46808 (Affected Party)									
13		Brown & Sons Fuel Co. P.O. Box 665 Kendallville IN 46755 (Affected Party)									
14		Mr. Marty K. McCurdy 2550 County Road 27 Waterloo IN 46793 (Affected Party)									
15		Mr. Phillip Gregg Concentra Environmental Health and Safety Services 10339 Dawsons Creek Blvd., Ste 7E Ft Wayne IN 46825 (Consultant)									

Total number of pieces Listed by Sender	Total number of Pieces Received at Post Office	Postmaster, Per (Name of Receiving employee)	The full declaration of value is required on all domestic and international registered mail. The maximum indemnity payable for the reconstruction of nonnegotiable documents under Express Mail document reconstructing insurance is \$50,000 per piece subject to a limit of \$50, 000 per occurrence. The maximum indemnity payable on Express mil merchandise insurance is \$500. The maximum indemnity payable is \$25,000 for registered mail, sent with optional postal insurance. See <b>Domestic Mail Manual R900, S913, and S921</b> for limitations of coverage on inured and COD mail. See <b>International Mail Manual</b> for limitations o coverage on international mail. Special handling charges apply only to Standard Mail (A) and Standard Mail (B) parcels.
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# Mail Code 61-53

IDEM Staff	BMILLER 4/26/2011 Custom Coatings, Inc 033-28551-00105 (final)		Type of Mail:  <b>CERTIFICATE OF MAILING ONLY</b>	AFFIX STAMP HERE IF USED AS CERTIFICATE OF MAILING
Name and address of Sender		Indiana Department of Environmental Management Office of Air Quality – Permits Branch 100 N. Senate Indianapolis, IN 46204		

Line	Article Number	Name, Address, Street and Post Office Address	Postage	Handling Charges	Act. Value (If Registered)	Insured Value	Due Send if COD	R.R. Fee	S.D. Fee	S.H. Fee	Rest. Del. Fee
											Remarks
1		Resident 1933 Jacob Street Auburn IN 46706 (Affected Party)									
2		Auburn Water Pollution Control Board 2010 Wayne Street Auburn IN 46707 (Affected Party)									
3		Trophie & Awards 1916 Wayne Street Auburn IN 46707 (Affected Party)									
4		Resident 1918 Wayne Street Auburn IN 46706 (Affected Party)									
5		Resident 1920 Wayne Street Auburn IN 46706 (Affected Party)									
6		Resident 1922 Wayne Street Auburn IN 46706 (Affected Party)									
7		Resident 1924 Wayne Street Auburn IN 46706 (Affected Party)									
8		Mark Zeltwanger 26545 CR 52 Nappanee IN 46550 (Affected Party)									
9											
10											
11											
12											
13											
14											
15											

Total number of pieces Listed by Sender	Total number of Pieces Received at Post Office	Postmaster, Per (Name of Receiving employee)	The full declaration of value is required on all domestic and international registered mail. The maximum indemnity payable for the reconstruction of nonnegotiable documents under Express Mail document reconstructing insurance is \$50,000 per piece subject to a limit of \$50, 000 per occurrence. The maximum indemnity payable on Express mil merchandise insurance is \$500. The maximum indemnity payable is \$25,000 for registered mail, sent with optional postal insurance. See <b>Domestic Mail Manual R900, S913, and S921</b> for limitations of coverage on inured and COD mail. See <b>International Mail Manual</b> for limitations o coverage on international mail. Special handling charges apply only to Standard Mail (A) and Standard Mail (B) parcels.
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