



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

Mitchell E. Daniels Jr.
Governor

Thomas W. Easterly
Commissioner

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

TO: Interested Parties / Applicant

DATE: July 16, 2010

RE: Coupled Products, LLC / 183-29293-00015

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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July 16, 2010

Mr. Daniel Coyle
Coupled Products, LLC
2651 S 600 E
Columbia City, IN 46725

Re: 183-29293-00015
Fifth Registration Revision to
R183-14330-00015

Dear Mr. Coyle:

Coupled Products, LLC was issued a Re-Registration No. R183-14330-00015 on August 1, 2001 for a stationary metal automotive part manufacturing source located at 2651 S 600 E, Columbia City, Indiana. On May 24, 2010, the Office of Air Quality (OAQ) received an application from the source for changes as described in the attached Technical Support Document (TSD).

The source shall continue to operate according to 326 IAC 2-5.5. Please find enclosed the revised registration. A copy of the registration is available on the Internet at: <http://www.in.gov/ai/appfiles/idem-caats/>. For additional information about air permits and how the public and interested parties can participate, refer to the IDEM's Guide for Citizen Participation and Permit Guide on the Internet at: www.idem.in.gov

This decision is subject to the Indiana Administrative Orders and Procedures Act - IC 4-21.5-3-5. If you have any questions on this matter, please contact Bruce Farrar, at (800) 451-6027, press 0 and ask for Bruce Farrar or extension 4-5401, or dial (317) 234-5401.

Sincerely,



Iryn Galilung, Section Chief
Permits Branch
Office of Air Quality

IC/bf

Attachment: Revised Registration

cc: File - Whitley County
Whitley County Health Department
Compliance and Enforcement Branch
Billing, Licensing and Training Section



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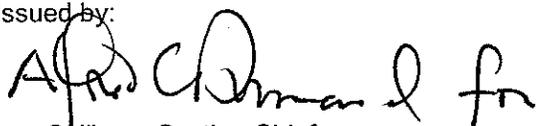
Re-REGISTRATION OFFICE OF AIR QUALITY

Coupled Products, LLC
2651 S 600 E
Columbia City, IN 46725

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. 183-14330-00015 | |
| Original signed by: Iryn Calilung, Section Chief Permits Branch Office of Air Quality | Issuance Date: August 1, 2001 |

First Registration Revision No. 183-15348-00015, issued on July 3, 2002.
Second Registration Revision No. 183-16870-00015, issued on April 3, 2003.
Third Registration Revision No. 183-18047-00015, issued on September 15, 2003.
Fourth Registration Revision No. 183-18156-00015, issued on January 12, 2004.
First Registration Notice-Only Change No. 183-21791-00015, issued on October 19, 2005.
Second Registration Notice-Only Change No. 183-25421-00015, issued on November 14, 2007.
Third Registration Notice-Only Change No. 183-28591-00015, issued on November 19, 2009.

| | |
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| Fifth Registration Revision No. 183-29293-00015 | |
| Issued by:  Iryn Calilung, Section Chief Permits Branch Office of Air Quality | Issuance Date: July 16, 2010 |

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

The Registrant owns and operates a stationary metal automotive parts manufacturing source.

| | |
|------------------------------|--|
| Source Address: | 2651 S 600 E, Columbia City, IN, 46725 |
| Mailing Address: | 2651 S 600 E, Columbia City, IN, 46725 |
| General Source Phone Number: | 260-248-3302 |
| SIC Code: | 3714 |
| County Location: | Whitley County |
| Source Location Status: | Attainment for all criteria pollutants |
| Source Status: | Registration |

A.2 Emission Units and Pollution Control Equipment Summary

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

- (a) One (1) natural gas-fired boiler, with a heat input capacity of 5.2 million British Thermal Units per hour (mmBtu/hr);
- (b) One (1) natural gas-fired barrel line #2 dryer, with a heat input capacity of 1.0 mmBtu/hr;
- (c) Two (2) natural gas-fired rack dryers, identified as #1 and #2, each has a heat input capacity of 0.8 mmBtu/hr;
- (d) One (1) natural gas-fired open top wash station dryer, with a heat input capacity of 1.1 mmBtu/hr;
- (e) One (1) natural gas-fired Bowden wash station dryer, with a heat input capacity of 1.1 mmBtu/hr;
- (f) Three (3) natural gas-fired braze furnaces identified as #5, #6, and #9, each has a heat input capacity of 0.785 mmBtu/hr;
- (g) Two (2) natural gas-fired braze furnaces, identified as #2 and #3, each with heat input capacity of 0.614 mmBtu/hr;
- (h) Seven (7) natural gas-fired space heaters, identified as space heaters #1, #2, #3, #4, #5, #6, and #7, each has a heat input capacity of 0.132 mmBtu/hr;
- (i) Six (6) natural gas-fired space heaters, identified as space heaters #8, #9, #10, #11, #12, and #13, each has a heat input capacity of 0.20 mmBtu/hr;
- (j) Eight (8) natural gas-fired air make-up units, identified as make-up units #1, through #8, each has a heat input capacity of 0.001 mmBtu/hr;
- (k) One large wall air make-up unit, with a capacity of 9.1 mmBtu/hr;
- (l) One (1) deburring machine #1, identified as Pine Deburrer #1, with a capacity of 150 lbs/hr;

- (m) One (1) deburring machine #2, identified as Pine Deburrer #2, with a capacity of 150 lbs/hr;
- (n) One (1) deburring machine #3, identified as Pine Deburrer #3, with a capacity of 150 lbs/hr;
- (o) One (1) deburring machine #4, identified as Pine Deburrer #4, with a capacity of 150 lbs/hr;
- (p) Plating operation, which consists of barrel line #1 and rack lines #1 and #2. Barrel line #1 utilizes a soak clean, cleaning, acid activator, nickel chloride, alkaline zinc, trivalent chromium solution (not used with an electric current) and rust inhibitor bath. Rack line #1 and rack line #2 each utilizes a soak clean, cleaning, acid activator, alkaline zinc/nickel sulfate, trivalent chromium solution (not used with an electric current) and rust inhibitor bath [an affected facility under 40 CFR 63, Subpart WWWWWW];
- (q) Eight (8) small solvent parts washers;
- (r) Wastewater pretreatment operations with scrubber;
- (s) One (1) braze furnace, identified as Braze Furnace #8, with maximum heat input capacity of 0.5 mmBtu/hr;
- (t) Three (3) deburring machines identified as Deburring Machine #5, #6 and #7 each with a maximum capacity of 450 pounds per hour;
- (u) Three (3) barrel lines, identified as Barrel Lines #2, #3 and #4, with a maximum capacity of 825 pounds of steel parts per hour, each, each including [an affected facility under 40 CFR 63, Subpart WWWWWW];
 - (1) One (1) soak-clean bath, capacity: 0.75 gallons per hour per line;
 - (2) One (1) acid activator process, capacity: 1.70 gallons per hour per line;
 - (3) One (1) cleaning bath, capacity: 0.64 gallons per hour per line;
 - (4) One (1) plating bath, capacity: 0.34 gallons per hour per line and 2,137 amp hours per line, Barrels #2 and #4 using a zinc/nickel sulfate bath and Barrel#3 using a zinc/nickel chloride bath;
 - (5) Two (2) trivalent chromium dip tanks, capacity: 0.46 gallons per hour per line;
 - (6) One (1) rust inhibitor bath, capacity: 0.022 gallons per hour per line;
 - (7) One (1) steam powered dryer; and
 - (8) Water rinse tanks.
- (v) One (1) rack line, identified as Rack Line #3, with a maximum capacity of 825 pounds of steel parts per hour, including [an affected facility under 40 CFR 63, Subpart WWWWWW];
 - (1) One (1) soak-clean bath, capacity: 0.16 gallons per hour;
 - (2) One (1) acid activator process, capacity: 2.86 gallons per hour;

- (3) One (1) cleaning bath, capacity: 0.16 gallons per hour;
 - (4) One (1) zinc/nickel sulfate plating bath, capacity: 0.52 gallons per hour and 2,137 amp hours;
 - (5) One (1) trivalent chromium dip tanks, capacity: 1.07 gallons per hour;
 - (6) One (1) rust inhibitor bath, capacity: 0.022 gallons per hour;
 - (7) One (1) steam powered dryer; and
 - (8) Water rinse tanks.
- (w) Five (5) natural gas-fired flame braze tables, identified as flame braze tables 1-07, 1-10, 1-14, 1-15, and 1-21, each with a maximum heat input capacity of 0.180 mmBtu/hr;
 - (x) Two (2) natural gas-fired flame braze tables, identified as flame braze tables 1-16 and 1-17, each with a maximum heat input capacity of 0.165 mmBtu/hr;
 - (y) Two (2) natural gas-fired flame braze tables, identified as flame braze tables 1-18 and 1-19, each with a maximum heat input capacity of 0.225 mmBtu/hr;
 - (z) One (1) natural gas-fired flame braze table, identified as flame braze table 1-20, with a maximum heat input capacity of 0.120 mmBtu/hr;
 - (aa) One (1) natural gas-fired flame braze table, identified as flame braze table 1-22, with a maximum heat input capacity of 0.195 mmBtu/hr;
 - (bb) Three (3) tube heaters, identified as TH#1 through TH#3, approved for construction in 2010, each with a maximum heat input capacity of 0.1 MMBTU/hr;
 - (cc) Two (2) tube heaters, identified as TH#4 and TH#5, approved for construction in 2010, each with a maximum heat input capacity of 0.075 MMBTU/hr.
 - (dd) Three (3) Okuma lathes, identified as Okuma #1 through Okuma #3, approved for construction in 2010, each with a maximum throughput capacity of 60 parts per hour, using a non-VOC containing cutting oil, with particulate controlled by a SmogHog electrostatic precipitator, identified as EP1, and exhausting inside the building;
 - (ee) Three (3) CNC Mills, identified as Mill #1 through Mill #3, approved for construction in 2010, each with a maximum throughput capacity of 60 parts per hour, using a non-VOC containing cutting oil, with no additional controls and exhausting inside the building;
 - (ff) Four (4) CNC Lathes, identified as CNC #1 through CNC #4, approved for construction in 2010, each with a maximum throughput capacity of 60 parts per hour, using a non-VOC containing cutting oil, with no additional controls and exhausting inside the building;
 - (gg) Three (3) Kingsbury machining centers, identified as Kingsbury #1 through Kingsbury #3, approved for construction in 2010, each with a maximum throughput capacity of 60 parts per hour, with no additional controls and exhausting inside the building. Kingsbury #1 and #2 use a maximum of 2 gallons of a VOC containing oil per week, each;
 - (hh) Two (2) New Britain machining centers, identified as New Britain #1 and New Britain #2, approved for construction in 2010, each with a maximum throughput capacity of 400

- parts per hour, using a non-VOC containing cutting oil, with no additional controls and exhausting inside the building;
- (ii) Eight (8) Acme-Gridley machining centers, identified as Acme-Gridley #1 through Acme-Gridley #8, approved for construction in 2010, each with a maximum throughput capacity of 600 parts per hour, using a non-VOC containing cutting oil, with particulate controlled by a SmogHog electrostatic precipitator, identified as EP2, and exhausting inside the building;
 - (jj) Two (2) Acme-Gridley machining centers, identified as Acme-Gridley #9 and Acme-Gridley #10, approved for construction in 2010, each with a maximum throughput capacity of 600 parts per hour, using a non-VOC containing cutting oil, with no additional controls and exhausting inside the building;
 - (kk) Six (6) Hydromat machining centers, identified as Hydromat #1 through Hydromat #6, approved for construction in 2010, each with a maximum throughput capacity of 800 parts per hour, with particulate controlled by a SmogHog electrostatic precipitator, identified as EP3, and exhausting inside the building;
 - (ll) Four (4) Hydromat machining centers, identified as Hydromat #7 through Hydromat #10, approved for construction in 2010, each with a maximum throughput capacity of 800 parts per hour, using a non-VOC containing cutting oil, with no additional controls and exhausting inside the building;
 - (mm) Four (4) enclosed parts washers, identified as Parts Washer #1 through Parts Washer #4, approved for construction in 2010, each with a maximum throughput capacity of 1,000 parts per hour, using a maximum of 0.0078 gallons of soap per hour, each and 0.0078 gallons of rust inhibitor per hour total, with no additional controls and exhausting inside the building;
 - (oo) Two (2) open top tumblers, identified as Tumbler #1 and Tumbler #2, approved for construction in 2010, each with a maximum throughput capacity of 100 pounds per hour, using a maximum of 0.0078 gallons of soap per hour each and exhausting inside the building. Tumbler #1 uses a maximum of 0.0078 gallons per hour of a HAP-containing soap.

SECTION B

GENERAL CONDITIONS

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

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]

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]

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 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]

- (a) All terms and conditions of permits established prior to Registration No. 183-14330-00015 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)]

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)]

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)]

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

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) natural gas-fired boiler, with a heat input capacity of 5.2 million British Thermal Units per hour (mmBtu/hr);

(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 Particulate [326 IAC 6-2-4]

-
- (a) Pursuant to 326 IAC 6-2-4 (Particulate Emission Limitations for Sources of Indirect Heating), particulate emissions from the 5.2 MMBtu/hr boiler shall be limited to 0.6 pounds per MMBtu heat input.

SECTION D.2

OPERATION CONDITIONS

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

- (u) Three (3) barrel lines, identified as Barrel Lines #2, #3 and #4, with a maximum capacity of 825 pounds of steel parts per hour, each, each including [an affected facility under 40 CFR 63, Subpart WWWWWW];
 - (1) One (1) soak-clean bath, capacity: 0.75 gallons per hour per line;
 - (2) One (1) acid activator process, capacity: 1.70 gallons per hour per line;
 - (3) One (1) cleaning bath, capacity: 0.64 gallons per hour per line;
 - (4) One (1) plating bath, capacity: 0.34 gallons per hour per line and 2,137 amp hours per line, Barrels #2 and #4 using a zinc/nickel sulfate bath and Barrel#3 using a zinc/nickel chloride bath;
 - (5) Two (2) trivalent chromium dip tanks, capacity: 0.46 gallons per hour per line;
 - (6) One (1) rust inhibitor bath, capacity: 0.022 gallons per hour per line;
 - (7) One (1) steam powered dryer; and
 - (8) Water rinse tanks.

- (v) One (1) rack line, identified as Rack Line #3, with a maximum capacity of 825 pounds of steel parts per hour, including [an affected facility under 40 CFR 63, Subpart WWWWWW]:
 - (1) One (1) soak-clean bath, capacity: 0.16 gallons per hour;
 - (2) One (1) acid activator process, capacity: 2.86 gallons per hour;
 - (3) One (1) cleaning bath, capacity: 0.16 gallons per hour;
 - (4) One (1) zinc/nickel sulfate plating bath, capacity: 0.52 gallons per hour and 2,137 amp hours;
 - (5) One (1) trivalent chromium dip tanks, capacity: 1.07 gallons per hour;
 - (6) One (1) rust inhibitor bath, capacity: 0.022 gallons per hour;
 - (7) One (1) steam powered dryer; and
 - (8) Water rinse tanks.

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

Emission Limitations and Standards [326 IAC 2-5.1-2(f)(1)] [326 IAC 2-5.5-4(a)(1)]

D.2.1 Particulate [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emission rate from the zinc/nickel chloride and sulfate plating operations, shall not exceed 2.27 pounds per hour, each, when operating at the maximum process weight rate of 825 pounds per hour, each.

The pounds per hour limitation was calculated with the following equation:

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

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

D.2.2 Volatile Organic Carbon (VOC) [326 IAC 8-3-2] [326 IAC 8-3-5(b)]

(a) Pursuant to 326 IAC 8-3-2 (Cold Cleaner Operations), the owner or operator of a cold cleaner degreaser facility shall:

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

(b) Pursuant to 326 IAC 8-3-5(a) (Cold Cleaner Degreaser Operation and Control), the owner or operator of a cold cleaner degreaser facility shall ensure that the following control equipment requirements are met:

- (1) Equip the degreaser with a cover. The cover must be designed so that it can be easily operated with one (1) hand if:
 - (A) The solvent volatility is greater than two (2) kiloPascals (fifteen (15) millimeters of mercury or three-tenths (0.3) pounds per square inch) measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F));
 - (B) The solvent is agitated; or
 - (C) The solvent is heated.
- (2) Equip the degreaser with a facility for draining cleaned articles. If the solvent volatility is greater than four and three-tenths (4.3) kiloPascals (thirty-two (32) millimeters of mercury or six-tenths (0.6) pounds per square inch) measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F)), then the drainage facility must be internal such that articles are enclosed under

the cover while draining. The drainage facility may be external for applications where an internal type cannot fit into the cleaning system.

- (3) Provide a permanent, conspicuous label which lists the operating requirements outlined in subsection (b).
 - (4) The solvent spray, if used, must be a solid, fluid stream and shall be applied at a pressure which does not cause excessive splashing.
 - (5) Equip the degreaser with one (1) of the following control devices if the solvent volatility is greater than four and three-tenths (4.3) kiloPascals (thirty-two (32) millimeters of mercury or six-tenths (0.6) pounds per square inch) measured at thirty-eight degrees Celsius (38^oC) (one hundred degrees Fahrenheit (100^oF)), or if the solvent is heated to a temperature greater than forty-eight and nine-tenths degrees Celsius (48.9^oC) (one hundred twenty degrees Fahrenheit (120^oF)):
 - (A) A freeboard that attains a freeboard ratio of seventy-five hundredths (0.75) or greater.
 - (B) A water cover when solvent is used is insoluble in, and heavier than, water.
 - (C) Other systems of demonstrated equivalent control such as a refrigerated chiller or carbon adsorption. Such systems shall be submitted to the U.S. EPA as a SIP revision.
- (c) Pursuant to 326 IAC 8-3-5(b) (Cold Cleaner Degreaser Operation and Control), the owner or operator of a cold cleaning facility shall ensure that the following operating requirements are met:
- (1) Close the cover whenever articles are not being handled in the degreaser.
 - (2) Drain cleaned articles for at least fifteen (15) seconds or until dripping ceases.
 - (3) Store waste solvent only in covered containers and prohibit the disposal or transfer of waste solvent in any manner in which greater than twenty percent (20%) of the waste solvent by weight could evaporate.

SECTION D.3

OPERATION CONDITIONS

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

- (mm) Four (4) enclosed parts washers, identified as Parts Washer #1 through Parts Washer #4, approved for construction in 2010, each with a maximum throughput capacity of 1,000 parts per hour, using a maximum of 0.0078 gallons of soap per hour, each and 0.0078 gallons of rust inhibitor per hour total, with no additional controls and exhausting inside the building;
- (oo) Two (2) open top tumblers, identified as Tumbler #1 and Tumbler #2, approved for construction in 2010, each with a maximum throughput capacity of 100 pounds per hour, using a maximum of 0.0078 gallons of soap per hour each and exhausting inside the building. Tumbler #1 uses a maximum of 0.0078 gallons per hour of a HAP-containing soap.

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

Emission Limitations and Standards [326 IAC 2-5.1-2(f)(1)] [326 IAC 2-5.5-4(a)(1)]

D.3.1 Particulate [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the particulate from the processes listed in the table below shall be limited by the following:

| Emission Unit | Process Weight Rate (lbs/hr) | Allowable PM Limit (lbs/hr) |
|---------------|------------------------------|-----------------------------|
| Tumbler #1 | 100 | 0.551 |
| Tumbler #2 | 100 | 0.551 |

The pound per hour limitation was calculated with the following equation:

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

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

SECTION E.1

OPERATION CONDITIONS

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

- (q) Plating operation, which consists of barrel line #1 and rack lines #1 and #2. Barrel line #1 utilizes a soak clean, cleaning, acid activator, nickel chloride, alkaline zinc, trivalent chromium solution (not used with an electric current) and rust inhibitor bath. Rack line #1 and rack line #2 each utilizes a soak clean, cleaning, acid activator, alkaline zinc/nickel sulfate, trivalent chromium solution (not used with an electric current) and rust inhibitor bath [an affected facility under 40 CFR 63, Subpart WWWWWW];

- (w) Three (3) barrel lines, identified as Barrel Lines #2, #3 and #4, with a maximum capacity of 825 pounds of steel parts per hour, each, each including [an affected facility under 40 CFR 63, Subpart WWWWWW];
 - (1) One (1) soak-clean bath, capacity: 0.75 gallons per hour per line;
 - (2) One (1) acid activator process, capacity: 1.70 gallons per hour per line;
 - (3) One (1) cleaning bath, capacity: 0.64 gallons per hour per line;
 - (4) One (1) plating bath, capacity: 0.34 gallons per hour per line and 2,137 amp hours per line, Barrels #2 and #4 using a zinc/nickel sulfate bath and Barrel#3 using a zinc/nickel chloride bath;
 - (5) Two (2) trivalent chromium dip tanks, capacity: 0.46 gallons per hour per line;
 - (6) One (1) rust inhibitor bath, capacity: 0.022 gallons per hour per line;
 - (7) One (1) steam powered dryer; and
 - (8) Water rinse tanks.

- (x) One (1) rack line, identified as Rack Line #3, with a maximum capacity of 825 pounds of steel parts per hour, including [an affected facility under 40 CFR 63, Subpart WWWWWW];
 - (1) One (1) soak-clean bath, capacity: 0.16 gallons per hour;
 - (2) One (1) acid activator process, capacity: 2.86 gallons per hour;
 - (3) One (1) cleaning bath, capacity: 0.16 gallons per hour;
 - (4) One (1) zinc/nickel sulfate plating bath, capacity: 0.52 gallons per hour and 2,137 amp hours;
 - (5) One (1) trivalent chromium dip tanks, capacity: 1.07 gallons per hour;
 - (6) One (1) rust inhibitor bath, capacity: 0.022 gallons per hour;
 - (7) One (1) steam powered dryer; and
 - (8) Water rinse tanks.

(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 NESHAP WWWWWW [326 IAC 20-1-1][40 CFR 63, Subpart A]

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

E.1.2 Area Source Standards for Plating and Polishing Operations [40 CFR 63, Subpart WWWWWW]

The Permittee shall comply with the following provisions of 40 CFR 63, Subpart WWWWWW as specified is Attachment A of this Registration:

1. 40 CFR 63.11504 (a)(1)(i), (ii), (iv)
2. 40 CFR 63.11504 (a)(2)
3. 40 CFR 63.11505 (a)(1)
4. 40 CFR 63.11505 (b)
5. 40 CFR 63.11506 (a)
6. 40 CFR 63.11507 (a)(1),(2)
7. 40 CFR 63.11507 (g)
8. 40 CFR 63.11508 (a)-(c)(2)
9. 40 CFR 63.11508 (d)(1)-(4)
10. 40 CFR 63.11509 (a)(1),(2)
11. 40 CFR 63.11509 (b)-(c)(2)(i)
12. 40 CFR 63.11509 (c)(6),(7)
13. 40 CFR 63.11509 (d)-(f)
14. 40 CFR 63.11510
15. 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).

| | |
|--------------------------|------------------------------|
| Company Name: | Coupled Products, LLC |
| Address: | 2651 S 600 E |
| City: | Columbia City, Indiana 46725 |
| Phone Number: | 260-248-3302 |
| Registration No.: | 183-14330-00015 |

I hereby certify that Coupled Products, LLC is :

- still in operation.
- no longer in operation.
- in compliance with the requirements of Registration No. 183-14330-00015.
- not in compliance with the requirements of Registration No. 183-14330-00015.

I hereby certify that Coupled Products, LLC is :

| |
|---------------------------------------|
| Authorized Individual (typed): |
| Title: |
| Signature: |
| Phone Number: |
| Date: |

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.

| |
|-----------------------|
| Noncompliance: |
| |
| |
| |
| |

**Reigstraion
OFFICE OF AIR QUALITY**

**Coupled Products
2651 South 600 East
Columbia City, IN 46725**

Attachment A

Title 40: Protection of Environment

**Part 63 - National Emission Standards for Hazardous Air
Pollutants**

**Subpart WWWW - Area Source Standards for Plating and
Polishing Operations**

R183-14330-00015

Title 40: Protection of Environment

PART 63—NATIONAL EMISSION STANDARDS FOR HAZARDOUS AIR POLLUTANTS FOR SOURCE CATEGORIES

[Browse Previous](#) | [Browse Next](#)

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 (iii) of this section.

(i) You must operate the tank with the cover in place at least 95 percent of the electrolytic process operating time.

(ii) You must record the times that the tank is operated and the times that the tank is covered on a daily basis.

(iii) You must state in your annual certification that you have operated the tank with the cover in place at least 95 percent of the electrolytic process time.

(7) If you own or operate an affected continuous electrolytic process tank that contains one or more of the plating and polishing metal HAP and is subject to the requirements in §63.11507(a), "What are my standards and management practices?", and you 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 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]

Table 1 to Subpart WWWW of Part 63. Applicability of General Provisions to Plating and Polishing Area Sources

As required in §63.11510, “What General Provisions apply to this subpart?”, you must meet each requirement in the following table that applies to you.

| Citation | Subject |
|--|---|
| 63.1 | Applicability. |
| 63.2 | Definitions. |
| 63.3 | Units and abbreviations. |
| 63.4 | Prohibited activities. |
| 63.6(a), (b)(1)–(b)(5), (c)(1), (c)(2), (c)(5), (j) | Compliance with standards and maintenance requirements. |
| 63.10(a), (b)(1), (b)(2)(i)–(iii),(xiv), (b)(3), (d)(1), (f) | Recordkeeping and reporting. |
| 63.12 | State authority and delegations. |
| 63.13 | Addresses of State air pollution control agencies and EPA regional offices. |
| 63.14 | Incorporation by reference. |
| 63.15 | Availability of information and confidentiality. |

¹Section 63.11505(e), “What parts of my plant does this subpart cover?”, exempts affected sources from the obligation to obtain title V operating permits.

Indiana Department of Environmental Management Office of Air Quality

Technical Support Document (TSD) for a Registration Revision

Source Description and Location

| | |
|---------------------------------------|--|
| Source Name: | Coupled Products, LLC |
| Source Location: | 2651 S 600 E, Columbia City, IN 46725 |
| County: | Whitley |
| SIC Code: | 3714 |
| Re-Registration No.: | 183-14330-00015 |
| Re-Registration Issuance Date: | August 1, 2001 |
| Re-Registration Revision No.: | 183-29293-00015 |
| Permit Reviewer: | Bruce Farrar |

On February 19, 2010, the Office of Air Quality (OAQ) received an application from Coupled Products, LLC related to a modification to an existing stationary metal automotive parts manufacturing source.

Existing Approvals

The source was issued Re-Registration No.: 183-14330-00015 on August 1, 2001. The source has since received the following approvals:

- (a) Registration Revision No. 183-15348-00015, issued on July 3, 2002; and
- (b) Registration Revision No. 183-16870-00015, issued on April 3, 2003; and
- (c) Registration Revision No. 183-18047-00015, issued on September 15, 2003; and
- (d) Registration Revision No. 183-18156-00015, issued on January 12, 2004; and
- (e) Notice-Only Change No. 183-21791-00015, issued on October 10, 2005; and
- (f) Notice-Only Change No. 183-25421-00015, issued on November 14, 2007; and
- (e) Notice-Only Change No. 183-28591-00015, issued on November 19, 2009.

County Attainment Status

The source is located in Whitley County.

| Pollutant | Designation |
|------------------|---|
| SO ₂ | Better than national standards. |
| CO | Unclassifiable or attainment effective November 15, 1990. |
| O ₃ | Unclassifiable or attainment effective June 15, 2004, for the 8-hour ozone standard. ¹ |
| PM ₁₀ | Unclassifiable effective November 15, 1990. |
| NO ₂ | Cannot be classified or better than national standards. |
| Pb | Not designated. |

¹Unclassifiable 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_{2.5}.

(a) Ozone Standards

Volatile organic compounds (VOC) and Nitrogen Oxides (NOx) are regulated under the Clean Air Act (CAA) for the purposes of attaining and maintaining the National Ambient Air Quality Standards (NAAQS) for ozone. Therefore, VOC and NOx emissions are considered when evaluating the rule applicability relating to ozone. Whitley 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) PM2.5

Whitley County has been classified as attainment for PM2.5. On May 8, 2008 U.S. EPA promulgated the requirements for Prevention of Significant Deterioration (PSD) for PM2.5 emissions, and the effective date of these rules was 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 PM10 emissions as a surrogate for PM2.5 emissions until 326 IAC 2-2 is revised.

(c) Other Criteria Pollutants

Whitley County has been classified as attainment or unclassifiable in Indiana for all 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.

Status of the Existing Source

The table below summarizes the potential to emit of the entire source, prior to the proposed revision, after consideration of all enforceable limits established in the effective permits:

| Process/ Emission Unit | Potential To Emit of the Entire Source Prior to Revision (tons/year) | | | | | | | | |
|---|--|--------------|--------------|-----------------|-------------|------------|--------------|---------------|------------------|
| | PM | PM10 | PM2.5 | SO ₂ | NOx | VOC | CO | Total HAPs | Worst Single HAP |
| Deburring Operation | 4.29 | 4.29 | 4.29 | - | - | - | - | - | - |
| Plating Operation | 6.82 | 6.82 | 6.82 | - | - | - | - | 12.16 | 8.66 HCL |
| 15 Parts Washer | - | - | - | - | - | 0.53 | - | - | - |
| Brazing | - | - | - | - | - | 1.97 | - | - | - |
| Combustion | 0.24 | 0.97 | 0.97 | 0.076 | 12.7 | 0.7 | 10.67 | 0.24 | 0.23 Hexane |
| Total PTE of the Entire Source | 11.35 | 12.08 | 12.08 | 0.076 | 12.7 | 3.2 | 10.67 | <25 | <10 |
| Registration Levels | 25 | 25 | 25 | 25 | 25 | 25 | 100 | 25 | 10 |
| negl. = negligible These emissions are based upon OAQ Permit No.: 183-21791-00015 and No.: 183-25421-00015 | | | | | | | | | |

| |
|---|
| Description of Proposed Revision |
|---|

The Office of Air Quality (OAQ) has reviewed an application, submitted by Coupled Products, LLC on May 24, 2010, relating to the addition, modification, and removal of emission units.

The following is a list of the new and modified emission units and pollution control devices:

- (a) The source has requested the addition of the following units. This change to the registration is considered a revision pursuant to 326 IAC 2-5.5-6(g).
- (1) Three (3) tube heaters, identified as TH#1 through TH#3, approved for construction in 2010, each with a maximum heat input capacity of 0.1 MMBTU/hr;
 - (2) Two (2) tube heaters, identified as TH#4 and TH#5, approved for construction in 2010, each with a maximum heat input capacity of 0.075 MMBTU/hr;
 - (3) Three (3) Okuma lathes, identified as Okuma #1 through Okuma #3, approved for construction in 2010, each with a maximum throughput capacity of 60 parts per hour, using a non-VOC containing cutting oil, with particulate controlled by a SmogHog electrostatic precipitator, identified as EP1, and exhausting inside the building;
 - (4) Three (3) CNC Mills, identified as Mill #1 through Mill #3, approved for construction in 2010, each with a maximum throughput capacity of 60 parts per hour, using a non-VOC containing cutting oil, with no additional controls and exhausting inside the building;
 - (5) Four (4) CNC Lathes, identified as CNC #1 through CNC #4, approved for construction in 2010, each with a maximum throughput capacity of 60 parts per hour, using a non-VOC containing cutting oil, with no additional controls and exhausting inside the building;
 - (6) Three (3) Kingsbury machining centers, identified as Kingsbury #1 through Kingsbury #3, approved for construction in 2010, each with a maximum throughput capacity of 60 parts per hour, with no additional controls and exhausting inside the building. Kingsbury #1 and #2 use a maximum of 2 gallons of a VOC containing oil per week, each;
 - (7) Two (2) New Britain machining centers, identified as New Britain #1 and New Britain #2, approved for construction in 2010, each with a maximum throughput capacity of 400 parts per hour, using a non-VOC containing cutting oil, with no additional controls and exhausting inside the building;
 - (8) Eight (8) Acme-Gridley machining centers, identified as Acme-Gridley #1 through Acme-Gridley #8, approved for construction in 2010, each with a maximum throughput capacity of 600 parts per hour, using a non-VOC containing cutting oil, with particulate controlled by a SmogHog electrostatic precipitator, identified as EP2, and exhausting inside the building;
 - (9) Two (2) Acme-Gridley machining centers, identified as Acme-Gridley #9 and Acme-Gridley #10, approved for construction in 2010, each with a maximum throughput capacity of 600 parts per hour, using a non-VOC containing cutting oil, with no additional controls and exhausting inside the building;
 - (10) Six (6) Hydromat machining centers, identified as Hydromat #1 through Hydromat #6, approved for construction in 2010, each with a maximum throughput capacity of 800 parts per hour, with particulate controlled by a SmogHog electrostatic precipitator, identified as EP3, and exhausting inside the building;

- (11) Four (4) Hydromat machining centers, identified as Hydromat #7 through Hydromat #10, approved for construction in 2010, each with a maximum throughput capacity of 800 parts per hour, using a non-VOC containing cutting oil, with no additional controls and exhausting inside the building;
 - (12) Four (4) enclosed parts washers, identified as Parts Washer #1 through Parts Washer #4, approved for construction in 2010, each with a maximum throughput capacity of 1,000 parts per hour, using a maximum of 0.0078 gallons of soap per hour, each and 0.0078 gallons of rust inhibitor per hour total, with no additional controls and exhausting inside the building; and
 - (13) Two (2) open top tumblers, identified as Tumbler #1 and Tumbler #2, approved for construction in 2010, each with a maximum throughput capacity of 100 pounds per hour, using a maximum of 0.0078 gallons of soap per hour each and exhausting inside the building. Tumbler #1 uses a maximum of 0.0078 gallons per hour of a HAP-containing soap.
- (b) The following units have been approved for modification in 2010:
- (1) The deburring machine #1, identified as DBR #1, with a capacity of 225 lbs/hr;
 - (2) One (1) deburring machine #2, identified as DBR1-01, with a capacity of 150 lbs/hr;
 - (3) One (1) deburring machine #3, identified as Pine Deburrer, with a capacity of 7 lbs/hr;
 - (4) One (1) deburring machine #4, identified as Quick Connect 1, with a capacity of 300 lbs/hr;
- (c) The following units have been removed:
- (1) The natural gas-fired braze furnace, identified as #1, with a heat input capacity of 0.785 mmBtu/hr.
 - (2) The natural gas-fired braze furnace, identified as #7, with a heat input capacity of 0.41 mmBtu/hr.
 - (3) The braze furnace identified as Braze Furnace #0, with maximum heat input capacity of 0.5 mmBtu/hr.
 - (4) Seven (7) small solvent parts washers.
 - (5) Two (2) deburring machines identified as Deburring Machine #8, and #9, each with a maximum capacity of 450 pounds per hour.
 - (6) Five (5) deburring machines identified as Deburring Machine #10, #11, #12, #13, and #14, each with a maximum capacity of 300 pounds per hour.

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| Enforcement Issues |
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There are no pending enforcement actions related to this revision.

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| Emission Calculations |
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See Appendix A of this TSD for detailed emission calculations.

Permit Level Determination – Registration Revision

The following table is used to determine the appropriate permit level under 326 IAC 2-5.5-6. This table reflects the PTE before controls of the proposed revision.

| Process/ Emission Unit | PTE of Proposed Revision (tons/year) | | | | | | | | |
|---------------------------------------|--------------------------------------|-------------|-------------|-----------------|-----------------|-------------|-------------|--------------|------------------|
| | PM | PM10 * | PM2.5 | SO ₂ | NO _x | VOC | CO | Total HAPs | Worst Single HAP |
| Machining Operations | 1.50 | 1.50 | 1.50 | - | - | 0.36 | - | - | - |
| 4 Enclosed Parts Washers | - | - | - | - | - | 0.35 | | | |
| Tumbler #1 and #2 | 0.19 | 0.19 | 0.19 | - | - | 0.05 | - | - | - |
| Combustion Units TH#1 - TH#5 | 3.74E-03 | 0.01 | 0.01 | 1.18E-03 | 0.2 | 0.01 | 0.17 | negl. | negl. |
| Total PTE of Proposed Revision | 1.70 | 1.71 | 1.71 | 0.001 | 0.2 | 0.77 | 0.17 | negl. | negl. |

negl. = negligible
 * 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".

This Registration is being revised through a Registration Revision pursuant to 326 IAC 2-5.5.6(g), because the revision involves construction of new equipment, that is not described in 326 IAC 2-5.5.6(d) (Registration Notice-Only Changes).

PTE of the Entire Source After Issuance of the Registration Revision

The table below summarizes the potential to emit of the entire source after issuance of this revision, reflecting all limits, of the emission units.

| Process/ Emission Unit | Potential To Emit of the Entire Source with the Revision (tons/year) | | | | | | | | |
|---|--|----------------------------------|----------------------------------|----------------------------------|---------------------------------|--------------------------------|----------------------------------|--------------------------------|------------------------------------|
| | PM | PM10 | PM2.5 | SO ₂ | NO _x | VOC | CO | Total HAPs | Worst Single HAP |
| Deburring Operation Pine Deburring #1 - #7 | 4.29 1.88 | 4.29 1.88 | 4.29 1.88 | - | - | - | - | - | - |
| Plating Operation | 6.82 | 6.82 | 6.82 | - | - | - | - | 12.16 | 8.66 HCL |
| 45 7 Parts Washer | - | - | - | - | - | 0.53 0.34 | - | - | - |
| Brazing | - | - | - | - | - | 1.97 | - | - | - |
| Combustion | 0.24 0.23 | 0.97 0.92 | 0.97 0.92 | 0.076 0.073 | 12.7 12.16 | 0.7 0.67 | 10.67 10.22 | 0.24 0.23 | 0.23 0.22 Hexane |
| Machining Operations | 1.50 | 4.50 | 1.50 | - | - | 0.36 | - | - | - |
| 4 Parts Washer | - | - | - | - | - | 0.35 | - | - | - |
| Tumbler #1 and #2 | 0.19 | 0.19 | 0.19 | - | - | 0.05 | - | - | - |
| Total PTE of the Entire Source | 11.35 10.63 | 12.08 11.32 | 12.08 11.32 | 0.076 0.073 | 12.7 12.16 | 3.2 3.74 | 10.67 10.22 | 25 <25 | 10 <10 |
| Registration Levels | 25 | 25 | 25 | 25 | 25 | 25 | 100 | 25 | 10 |
| negl. = negligible * 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". | | | | | | | | | |

The table below summarizes the potential to emit of the entire source after issuance of this revision, reflecting all limits, of the emission units. (Note: the table below was generated from the above table, with bold text un-bolded and strikethrough text deleted).

| Process/ Emission Unit | Potential To Emit of the Entire Source with the Revision (tons/year) | | | | | | | | |
|---|--|--------------|--------------|-----------------|-----------------|-------------|--------------|---------------|------------------|
| | PM | PM10 | PM2.5 | SO ₂ | NO _x | VOC | CO | Total HAPs | Worst Single HAP |
| Pine Deburring #1 - #7 | 1.88 | 1.88 | 1.88 | - | - | - | - | - | - |
| Plating Operation | 6.82 | 6.82 | 6.82 | - | - | - | - | 12.16 | 8.66 HCL |
| 7 Parts Washer | - | - | - | - | - | 0.34 | - | - | - |
| Brazing | - | - | - | - | - | 1.97 | - | - | - |
| Combustion | 0.23 | 0.92 | 0.92 | 0.073 | 12.16 | 0.67 | 10.22 | 0.23 | 0.22 Hexane |
| Machining Operations | 0.61 | 0.61 | 0.61 | - | - | 0.36 | - | - | - |
| 4 Parts Washer | - | - | - | - | - | 0.35 | - | - | - |
| Tumbler #1 and #2 | 0.19 | 0.19 | 0.19 | - | - | 0.05 | - | - | - |
| Total PTE of the Entire Source | 10.63 | 11.32 | 11.32 | 0.073 | 12.16 | 3.45 | 10.22 | <25 | <10 |
| Registration Levels | 25 | 25 | 25 | 25 | 25 | 25 | 100 | 25 | 10 |
| negl. = negligible * 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) This revision will not change the registration status of the source, because the uncontrolled/unlimited potential to emit of all pollutants from the entire source will still be within the ranges listed in 326 IAC 2-5.5-1(b)(1) and the PTE of all other regulated criteria pollutants will still be less than the ranges listed in 326 IAC 2-5.5-1(b)(1). Therefore, the source will still be subject to the provisions of 326 IAC 2-5.5 (Registrations).
- (b) This revision will not change the minor status of the source, because the uncontrolled/unlimited potential to emit of any single HAP will still be less than ten (10) tons per year and the PTE of a combination of HAPs will still be 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

The federal rules applicable to the existing emission units at this source will not change as a result of this revision.

The federal rule applicability for this revision is as follows:

New Source Performance Standards (NSPS)

- (a) There are no New Source Performance Standards (NSPS) (326 IAC 12 and 40 CFR Part 60) included for this proposed revision.

National Emission Standards for Hazardous Air Pollutants (NESHAP)

- (b) The requirements of the National Emission Standards for Hazardous Air Pollutants: Paint Stripping and Miscellaneous Surface Coating Operations at Area Sources, Subpart HHHHHH (6H), are not included in the permit, since this source does not use chemical strippers that contain methylene chloride (MeCl) or perform a spray-applied surface coating.
- (c) The requirements of the National Emission Standards for Hazardous Air Pollutants Area Source Standards for Nine Metal Fabrication and Finishing Source Categories (40 CFR Part 63), Subpart XXXXXX (6X), do not apply, because the facility is not one of the nine source categories listed in 40 CFR 63.11514(a).
- (d) There are no (*other*) National Emission Standards for Hazardous Air Pollutants (NESHAPs) (326 IAC 14, 326 IAC 20 and 40 CFR Part 63) included for this proposed revision.

Compliance Assurance Monitoring (CAM)

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

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| State Rule Applicability Determination |
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The state rules applicable to the existing emission units at this source will not change as a result of this revision.

The following state rules are applicable to the proposed revision:

- (a) 326 IAC 2-5.5 (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 proposed revision is not subject to the requirements of 326 IAC 2-4.1, since the unlimited potential to emit of HAPs from the new and modified units is less than ten (10) tons per year for any single HAP and less than twenty-five (25) tons per year of a combination of HAPs.
- (c) 326 IAC 2-6 (Emission Reporting)
Pursuant to 326 IAC 2-6-1, this source is not subject to this rule, 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 6-4 (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.

Machining Operation

- (f) 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes)
Pursuant to 326 IAC 6-3-1(b)(14), the machining operation is not subject to the requirements of 326 IAC 6-3-2, because the potential emissions for each new unit are less than 0.551 lbs per hour.
- (g) 326 IAC 8-1-6 (VOC Rules: General Reduction Requirements for New Facilities)
The proposed revision is not subject to the requirements of 326 IAC 8-1-6, since the unlimited VOC potential emissions from the two (2) Kingsbury Machining Center using Sensol 946 are less than twenty-five (25) tons per year. All other machining operation units are exempt because they use a non-VOC containing cutting oil.

Tumbler Operation

- (h) Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes) the particulate from the processes listed in the table below shall be limited by the following:

| Emission Unit | Process Weight Rate (lbs/hr) | Allowable PM Limit (lbs/hr) |
|---------------|------------------------------|-----------------------------|
| Tumbler #1 | 100 | 0.551 |
| Tumbler #2 | 100 | 0.551 |

The pound per hour limitation was calculated with the following equation:

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

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

- (i) 326 IAC 8-1-6 (VOC Rules: General Reduction Requirements for New Facilities)
The proposed revision is not subject to the requirements of 326 IAC 8-1-6, since the unlimited VOC potential emissions from each new unit are less than twenty-five (25) tons per year.
- (j) 326 IAC 8-3-2 (Cold Cleaner Operations)
The two (2) Tumblers, identified as Tumbler #1 and Tumbler #2, are not subject to the provisions of 326 IAC 8-3-2 because they are not cold cleaning degreasers, but used to remove chips from the automotive metal parts.
- (k) There are no other 326 IAC 8 Rules that are applicable to these units.

Enclosed Parts Washer Operation

- (l) 326 IAC 8-1-6 (VOC Rules: General Reduction Requirements for New Facilities)
The proposed revision is not subject to the requirements of 326 IAC 8-1-6, since the unlimited VOC potential emissions from each enclosed parts washer are less than twenty-five (25) tons per year.

- (m) 326 IAC 8-3-2 (Cold Cleaner Operations)
The four (4) Enclosed Parts Washers are not subject to the provisions of 326 IAC 8-3-2 (Organic solvent degreasing operations: cold cleaner operations) because they are not cold cleaning degreasers, but used to remove chips from the automotive metal parts.
- (n) There are no other 326 IAC 8 Rules that are applicable to these units.

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| Proposed Changes |
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The following changes listed below are due to the proposed revision. Deleted language appears as ~~strike through~~ text and new language appears as **bold** text:

A.2 Emission Units and Pollution Control Equipment Summary

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

- (f) ~~Four (4)~~ **Three (3)** natural gas-fired braze furnaces identified as #4, #5, #6, and #9, each has a heat input capacity of 0.785 mmBtu/hr;
- (g) Two (2) natural gas-fired braze furnaces, identified as #2 and #3, each with heat input capacity of 0.614 mmBtu/hr;
- ~~(h) One (1) natural gas-fired braze furnace, identified as #7, with a heat input capacity of 0.41 mmBtu/hr;~~
- ~~(i)~~**(h)** Seven (7) natural gas-fired space heaters, identified as space heaters #1, #2, #3, #4, #5, #6, and #7, each has a heat input capacity of 0.132 mmBtu/hr;
- ~~(j)~~**(i)** Six (6) natural gas-fired space heaters, identified as space heaters #8, #9, #10, #11, #12, and #13, each has a heat input capacity of 0.20 mmBtu/hr;
- ~~(k)~~**(j)** Eight (8) natural gas-fired air make-up units, identified as make-up units #1, through #8, each has a heat input capacity of 0.001 mmBtu/hr;
- ~~(l)~~**(k)** One large wall air make-up unit, with a capacity of 9.1 mmBtu/hr;
- ~~(m)~~**(l)** One (1) deburring machine #1, identified as ~~DBR #1~~**Pine Deburrer #1**, with a capacity of ~~225~~ **150** lbs/hr;
- ~~(n)~~**(m)** One (1) deburring machine #2, identified as ~~DBR1-01~~**Pine Deburrer #2**, with a capacity of 150 lbs/hr;
- ~~(o)~~**(n)** One (1) deburring machine #3, identified as Pine Deburrer **#3**, with a capacity of ~~7~~ **150** lbs/hr;
- ~~(p)~~**(o)** One (1) deburring machine #4, identified as ~~Quick-Connect 4~~**Pine Deburrer #4**, with a capacity of ~~300~~ **150** lbs/hr;
- ~~(q)~~**(p)** Plating operation, which consists of barrel line #1 and rack lines #1 and #2. Barrel line #1 utilizes a soak clean, cleaning, acid activator, nickel chloride, alkaline zinc, trivalent chromium solution (not used with an electric current) and rust inhibitor bath. Rack line #1 and rack line #2 each utilizes a soak clean, cleaning, acid activator, alkaline zinc/nickel sulfate, trivalent chromium solution (not used with an electric current) and rust inhibitor

bath [an affected facility under 40 CFR 63, Subpart WWWWWW];

- ~~(p)~~**(q)** ~~Fifteen (15)~~ **Eight (8)** small solvent parts washers;
- ~~(s)~~**(r)** Wastewater pretreatment operations with scrubber;
- ~~(t)~~**(s)** ~~Two (2)~~ **One (1)** braze furnaces identified as ~~Braze Furnace #0 and Braze Furnace #8,~~ each with maximum heat input capacity of 0.5 mmBtu/hr;
- ~~(u)~~**(t)** ~~Five (5)~~ **Three (3)** deburring machines, identified as Deburring Machine #5, #6, **and** #7, #8, ~~and #9,~~ each with a maximum capacity of 450 pounds per hour;
- ~~(v)~~ ~~Five (5) deburring machines identified as Deburring Machine #10, #11, #12, #13, and #14,~~ each with a maximum capacity of 300 pounds per hour;
- ~~(w)~~**(u)** Three (3) barrel lines, identified as Barrel Lines #2, #3 and #4, with a maximum capacity of 825 pounds of steel parts per hour, each, each including [an affected facility under 40 CFR 63, Subpart WWWWWW];
 - (1) One (1) soak-clean bath, capacity: 0.75 gallons per hour per line;
 - (2) One (1) acid activator process, capacity: 1.70 gallons per hour per line;
 - (3) One (1) cleaning bath, capacity: 0.64 gallons per hour per line;
 - (4) One (1) plating bath, capacity: 0.34 gallons per hour per line and 2,137 amp hours per line, Barrels #2 and #4 using a zinc/nickel sulfate bath and Barrel#3 using a zinc/nickel chloride bath;
 - (5) Two (2) trivalent chromium dip tanks, capacity: 0.46 gallons per hour per line;
 - (6) One (1) rust inhibitor bath, capacity: 0.022 gallons per hour per line;
 - (7) One (1) steam powered dryer; and
 - (8) Water rinse tanks.
- ~~(x)~~**(v)** One (1) rack line, identified as Rack Line #3, with a maximum capacity of 825 pounds of steel parts per hour, including [an affected facility under 40 CFR 63, Subpart WWWWWW];
 - (1) One (1) soak-clean bath, capacity: 0.16 gallons per hour;
 - (2) One (1) acid activator process, capacity: 2.86 gallons per hour;
 - (3) One (1) cleaning bath, capacity: 0.16 gallons per hour;
 - (4) One (1) zinc/nickel sulfate plating bath, capacity: 0.52 gallons per hour and 2,137 amp hours;
 - (5) One (1) trivalent chromium dip tanks, capacity: 1.07 gallons per hour;
 - (6) One (1) rust inhibitor bath, capacity: 0.022 gallons per hour;
 - (7) One (1) steam powered dryer; and

- (8) Water rinse tanks.
- ~~(v)~~(w) Five (5) natural gas-fired flame braze tables, identified as flame braze tables 1-07, 1-10, 1-14, 1-15, and 1-21, each with a maximum heat input capacity of 0.180 mmBtu/hr;
- ~~(z)~~(x) Two (2) natural gas-fired flame braze tables, identified as flame braze tables 1-16 and 1-17, each with a maximum heat input capacity of 0.165 mmBtu/hr;
- ~~(aa)~~(y) Two (2) natural gas-fired flame braze tables, identified as flame braze tables 1-18 and 1-19, each with a maximum heat input capacity of 0.225 mmBtu/hr;
- ~~(bb)~~(z) One (1) natural gas-fired flame braze table, identified as flame braze table 1-20, with a maximum heat input capacity of 0.120 mmBtu/hr;
- ~~(ee)~~(aa) One (1) natural gas-fired flame braze table, identified as flame braze table 1-22, with a maximum heat input capacity of 0.195 mmBtu/hr;
- (bb) Three (3) tube heaters, identified as TH#1 through TH#3, approved for construction in 2010, each with a maximum heat input capacity of 0.1 MMBTU/hr;**
- (cc) Two (2) tube heaters, identified as TH#4 and TH#5, approved for construction in 2010, each with a maximum heat input capacity of 0.075 MMBTU/hr.**
- (dd) Three (3) Okuma lathes, identified as Okuma #1 through Okuma #3, approved for construction in 2010, each with a maximum throughput capacity of 60 parts per hour, using a non-VOC containing cutting oil, with particulate controlled by a SmogHog electrostatic precipitator, identified as EP1, and exhausting inside the building;**
- (ee) Three (3) CNC Mills, identified as Mill #1 through Mill #3, approved for construction in 2010, each with a maximum throughput capacity of 60 parts per hour, using a non-VOC containing cutting oil, with no additional controls and exhausting inside the building;**
- (ff) Four (4) CNC Lathes, identified as CNC #1 through CNC #4, approved for construction in 2010, each with a maximum throughput capacity of 60 parts per hour, using a non-VOC containing cutting oil, with no additional controls and exhausting inside the building;**
- (gg) Three (3) Kingsbury machining centers, identified as Kingsbury #1 through Kingsbury #3, approved for construction in 2010, each with a maximum throughput capacity of 60 parts per hour, with no additional controls and exhausting inside the building. Kingsbury #1 and #2 use a maximum of 2 gallons of a VOC containing oil per week, each;**
- (hh) Two (2) New Britain machining centers, identified as New Britain #1 and New Britain #2, approved for construction in 2010, each with a maximum throughput capacity of 400 parts per hour, using a non-VOC containing cutting oil, with no additional controls and exhausting inside the building;**
- (ii) Eight (8) Acme-Gridley machining centers, identified as Acme-Gridley #1 through Acme-Gridley #8, approved for construction in 2010, each with a maximum throughput capacity of 600 parts per hour, using a non-VOC containing cutting oil,**

- with particulate controlled by a SmogHog electrostatic precipitator, identified as EP2, and exhausting inside the building;
- (jj) Two (2) Acme-Gridley machining centers, identified as Acme-Gridley #9 and Acme-Gridley #10, approved for construction in 2010, each with a maximum throughput capacity of 600 parts per hour, using a non-VOC containing cutting oil, with no additional controls and exhausting inside the building;
 - (kk) Six (6) Hydromat machining centers, identified as Hydromat #1 through Hydromat #6, approved for construction in 2010, each with a maximum throughput capacity of 800 parts per hour, with particulate controlled by a SmogHog electrostatic precipitator, identified as EP3, and exhausting inside the building;
 - (ll) Four (4) Hydromat machining centers, identified as Hydromat #7 through Hydromat #10, approved for construction in 2010, each with a maximum throughput capacity of 800 parts per hour, using a non-VOC containing cutting oil, with no additional controls and exhausting inside the building;
 - (mm) Four (4) enclosed parts washers, identified as Parts Washer #1 through Parts Washer #4, approved for construction in 2010, each with a maximum throughput capacity of 1,000 parts per hour, using a maximum of 0.0078 gallons of soap per hour, each and 0.0078 gallons of rust inhibitor per hour total, with no additional controls and exhausting inside the building;
 - (oo) Two (2) open top tumblers, identified as Tumbler #1 and Tumbler #2, approved for construction in 2010, each with a maximum throughput capacity of 100 pounds per hour, using a maximum of 0.0078 gallons of soap per hour each and exhausting inside the building. Tumbler #1 uses a maximum of 0.0078 gallons per hour of a HAP-containing soap.

SECTION D.2

OPERATION CONDITIONS

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

- (w)(u) Three (3) barrel lines, identified as Barrel Lines #2, #3 and #4, with a maximum capacity of 825 pounds of steel parts per hour, each, each including an affected facility under 40 CFR 63, Subpart WWWW;
 - (1) One (1) soak-clean bath, capacity: 0.75 gallons per hour per line;
 - (2) One (1) acid activator process, capacity: 1.70 gallons per hour per line;
 - (3) One (1) cleaning bath, capacity: 0.64 gallons per hour per line;
 - (4) One (1) plating bath, capacity: 0.34 gallons per hour per line and 2,137 amp hours per line, Barrels #2 and #4 using a zinc/nickel sulfate bath and Barrel#3 using a zinc/nickel chloride bath;
 - (5) Two (2) trivalent chromium dip tanks, capacity: 0.46 gallons per hour per line;
 - (6) One (1) rust inhibitor bath, capacity: 0.022 gallons per hour per line;
 - (7) One (1) steam powered dryer; and

- (8) Water rinse tanks.
- ~~(x)~~(v) One (1) rack line, identified as Rack Line #3, with a maximum capacity of 825 pounds of steel parts per hour, including [an affected facility under 40 CFR 63, Subpart WWWWWW]:
- (1) One (1) soak-clean bath, capacity: 0.16 gallons per hour;
 - (2) One (1) acid activator process, capacity: 2.86 gallons per hour;
 - (3) One (1) cleaning bath, capacity: 0.16 gallons per hour;
 - (4) One (1) zinc/nickel sulfate plating bath, capacity: 0.52 gallons per hour and 2,137 amp hours;
 - (5) One (1) trivalent chromium dip tanks, capacity: 1.07 gallons per hour;
 - (6) One (1) rust inhibitor bath, capacity: 0.022 gallons per hour;
 - (7) One (1) steam powered dryer; and
 - (8) Water rinse tanks.

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

SECTION D.3 OPERATION CONDITIONS

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

- (mm) Four (4) enclosed parts washers, identified as Parts Washer #1 through Parts Washer #4, approved for construction in 2010, each with a maximum throughput capacity of 1,000 parts per hour, using a maximum of 0.0078 gallons of soap per hour, each and 0.0078 gallons of rust inhibitor per hour total, with no additional controls and exhausting inside the building;
- (oo) Two (2) open top tumblers, identified as Tumbler #1 and Tumbler #2, approved for construction in 2010, each with a maximum throughput capacity of 100 pounds per hour, using a maximum of 0.0078 gallons of soap per hour each and exhausting inside the building. Tumbler #1 uses a maximum of 0.0078 gallons per hour of a HAP-containing soap.

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

Emission Limitations and Standards [326 IAC 2-5.1-2(f)(1)] [326 IAC 2-5.5-4(a)(1)]

D.3.1 Particulate [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the particulate from the processes listed in the table below shall be limited by the following:

| Emission Unit | Process Weight Rate (lbs/hr) | Allowable PM Limit (lbs/hr) |
|---------------|------------------------------|-----------------------------|
| Tumbler #1 | 100 | 0.551 |
| Tumbler #2 | 100 | 0.551 |

The pound per hour limitation was calculated with the following equation:

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

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

SECTION E.1

OPERATION CONDITIONS

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

~~(g)~~(p) Plating operation, which consists of barrel line #1 and rack lines #1 and #2. Barrel line #1 utilizes a soak clean, cleaning, acid activator, nickel chloride, alkaline zinc, trivalent chromium solution (not used with an electric current) and rust inhibitor bath. Rack line #1 and rack line #2 each utilizes a soak clean, cleaning, acid activator, alkaline zinc/nickel sulfate, trivalent chromium solution (not used with an electric current) and rust inhibitor bath [an affected facility under 40 CFR 63, Subpart WWWWWW];

~~(w)~~(u) Three (3) barrel lines, identified as Barrel Lines #2, #3 and #4, with a maximum capacity of 825 pounds of steel parts per hour, each, each including [an affected facility under 40 CFR 63, Subpart WWWWWW];

- (1) One (1) soak-clean bath, capacity: 0.75 gallons per hour per line;
- (2) One (1) acid activator process, capacity: 1.70 gallons per hour per line;
- (3) One (1) cleaning bath, capacity: 0.64 gallons per hour per line;
- (4) One (1) plating bath, capacity: 0.34 gallons per hour per line and 2,137 amp hours per line, Barrels #2 and #4 using a zinc/nickel sulfate bath and Barrel#3 using a zinc/nickel chloride bath;
- (5) Two (2) trivalent chromium dip tanks, capacity: 0.46 gallons per hour per line;
- (6) One (1) rust inhibitor bath, capacity: 0.022 gallons per hour per line;
- (7) One (1) steam powered dryer; and
- (8) Water rinse tanks.

~~(x)~~(v) One (1) rack line, identified as Rack Line #3, with a maximum capacity of 825 pounds of steel parts per hour, including [an affected facility under 40 CFR 63, Subpart WWWWWW];

- (1) One (1) soak-clean bath, capacity: 0.16 gallons per hour;
- (2) One (1) acid activator process, capacity: 2.86 gallons per hour;

- (3) One (1) cleaning bath, capacity: 0.16 gallons per hour;
- (4) One (1) zinc/nickel sulfate plating bath, capacity: 0.52 gallons per hour and 2,137 amp hours;
- (5) One (1) trivalent chromium dip tanks, capacity: 1.07 gallons per hour;
- (6) One (1) rust inhibitor bath, capacity: 0.022 gallons per hour;
- (7) One (1) steam powered dryer; and
- (8) Water rinse tanks.

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

Conclusion and Recommendation

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 May 24, 2010.

The construction and operation of this proposed revision shall be subject to the conditions of the attached proposed Registration Revision No. 183-29293-00015. The staff recommends to the Commissioner that this Registration Revision be approved.

IDEM Contact

- (a) Questions regarding this proposed permit can be directed to Bruce Farrar at the Indiana Department Environmental Management, Office of Air Quality, Permits Branch, 100 North Senate Avenue, MC 61-53 IGCN 1003, Indianapolis, Indiana 46204-2251 or by telephone at (317) 234-5401 or toll free at 1-800-451-6027 extension 4-5401.
- (b) A copy of the findings is available on the Internet at: <http://www.in.gov/ai/appfiles/idem-caats/>
- (c) For additional information about air permits and how the public and interested parties can participate, refer to the IDEM's Guide for Citizen Participation and Permit Guide on the Internet at: www.idem.in.gov

**Appendix A: Emissions Calculations
Summary**

Company Name: Coupled Products, LLC
Address City IN Zip: 2651 South 600 East, Columbia City, Indiana 46725
Permit Number: 183-29293-00015
Plt ID: 183-00015
Reviewer: Bruce Farrar
Date: May 24, 2010

| | Pollutant | | | | | | | | | |
|--|--------------|--------------|--------------|--------------|--------------|-------------|--------------|---------------|---------------|----------|
| | PM | PM10 | PM2.5 | SO2 | NOx | VOC | CO | Total HAPs | Single HAP | HAP name |
| Total from 183-25421-00015: | 11.35 | 12.08 | 12.08 | 0.0762 | 12.704 | 3.2 | 10.67 | <25 | <10 | |
| Modified/Deleted Emission Units Change: | (2.42) | (2.47) | (2.47) | (0.005) | (0.74) | (0.23) | (0.62) | | | |
| New Emission Units: | | | | | | | | | | |
| Machining Operations | 1.50 | 1.50 | 1.50 | | | 0.36 | | | | |
| 4 Parts Washer: | | | | | | 0.35 | | | | |
| Tumbler: | 0.19 | 0.19 | 0.19 | | | 0.05 | | | | |
| Combustion: | 3.74E-03 | 0.01 | 0.01 | 1.18E-03 | 0.20 | 0.01 | 0.17 | 3.72E-03 | 3.55E-03 | Hexane |
| Total for Revision: | 1.70 | 1.71 | 1.71 | 0.001 | 0.20 | 0.77 | 0.17 | 0.004 | 0.004 | |
| Source total after Revision : | 10.63 | 11.32 | 11.32 | 0.073 | 12.16 | 3.74 | 10.22 | <25 | <10 | |

**Appendix A: Emissions Calculations
Machining Emissions**

Company Name: Coupled Products, LLC
Address City IN Zip: 2651 South 600 East, Columbia City, Indiana 46725
Permit Number: 183-29293-00015
Plt ID: 183-00015
Reviewer: Bruce Farrar
Date: May 24, 2010

| Emission Unit | No. of machines | Maximum Throughput (parts/hr) | Max Weight per part (lbs/part) | Process Throughput (lbs hour) | Coolant Used (gal/week/mach) | Max Amount of coolant | Density (lbs/gal) | % VOC | VOC Emissions (tons/yr) |
|-------------------------------|-----------------|-------------------------------|--------------------------------|-------------------------------|------------------------------|-----------------------|-------------------|--------|-------------------------|
| Okuma Lathe | 3 | 60 | 0.1 | 6.00 | Redcut 180 | 10 | 7.28 | 0.00% | 0.00 |
| CNC Mill | 3 | 60 | 0.1 | 6.00 | Redcut 180 | 10 | 7.28 | 0.00% | 0.00 |
| CNC Lathe | 4 | 60 | 0.1 | 6.00 | Redcut 180 | 10 | 7.28 | 0.00% | 0.00 |
| Kingsbury Machining Center | 2 | 60 | 0.1 | 6.00 | Sensol 946 | 2 | 8.76 | 40.00% | 0.36 |
| Kingsbury Machining Center | 1 | 60 | 0.1 | 6.00 | None | 0 | N/A | N/A | 0.00 |
| New Britain Machining Center | 2 | 400 | 0.1 | 40.00 | Redcut 180 | 5 | 7.28 | 0.00% | 0.00 |
| Acme Gridley Machining Center | 8 | 600 | 0.1 | 60.00 | Redcut 180 | 10 | 7.28 | 0.00% | 0.00 |
| Acme Gridley Machining Center | 2 | 600 | 0.1 | 60.00 | Redcut 180 | 10 | 7.28 | 0.00% | 0.00 |
| Hydromat Machining Center | 6 | 800 | 0.1 | 80.00 | Redcut 180 | 10 | 7.28 | 0.00% | 0.00 |
| Hydromat Machining Center | 4 | 800 | 0.1 | 80.00 | Redcut 180 | 10 | 7.28 | 0.00% | 0.00 |

Total VOC (tons/yr) = 0.36

Methodology

VOC Emissions (tons/yr) = Max amount of coolant (gal/week/machine) * No. of Machines * Density (lbs/gal) * % VOC * 52 weeks/yr * 1 ton/2000lbs

| Emission Unit | No. of machines | Controlled by SmogHog | SmogHog Control Efficiency % * | Maximum Throughput (parts/hr) | Max Weight per part (lbs/part) | Process Throughput (lbs hour) | Material Lost (%) ^α | PM/PM10 Emissions (tons/year) | Controlled PM/PM10 Emissions (tons/yr) |
|-------------------------------|-----------------|-----------------------|--------------------------------|-------------------------------|--------------------------------|-------------------------------|--------------------------------|-------------------------------|--|
| Okuma Lathe | 3 | yes | 95.00% | 60 | 0.1 | 6.00 | 0.022% | 0.017 | 0.001 |
| CNC Mill | 3 | no | | 60 | 0.1 | 6.00 | 0.022% | 0.017 | 0.017 |
| CNC Lathe | 4 | no | | 60 | 0.1 | 6.00 | 0.022% | 0.023 | 0.023 |
| Kingsbury Machining Center | 2 | no | | 60 | 0.1 | 6.00 | 0.022% | 0.012 | 0.012 |
| Kingsbury Machining Center | 1 | no | | 60 | 0.1 | 6.00 | 0.022% | 0.006 | 0.006 |
| New Britain Machining Center | 2 | no | | 400 | 0.1 | 40.00 | 0.022% | 0.077 | 0.077 |
| Acme Gridley Machining Center | 8 | yes | 95.00% | 600 | 0.1 | 60.00 | 0.022% | 0.463 | 0.023 |
| Acme Gridley Machining Center | 2 | no | | 600 | 0.1 | 60.00 | 0.022% | 0.116 | 0.116 |
| Hydromat Machining Center | 6 | yes | 95.00% | 800 | 0.1 | 80.00 | 0.022% | 0.463 | 0.023 |
| Hydromat Machining Center | 4 | no | | 800 | 0.1 | 80.00 | 0.022% | 0.308 | 0.308 |

Total PM/PM10 (tons/yr) = 1.501 0.606

Methodology

Particulate Emissions (tons/yr) = Max through-put (parts/hr) * Max weight (lbs/part) * No. of Machines * Material lost (%) * 8760 hrs/yr * 1ton/2000 lbs

* - Control efficiency from manufactures specifications

α - Material lost based on deburring material lost, OAQ permit #183-14330-00015, issued August 1, 2001.

**Appendix A: Emissions Calculations
Tumblers**

**Company Name: Coupled Products, LLC
Address City IN Zip: 2651 South 600 East, Columbia City, Indiana 46725
Permit Number: 183-29293-00015
Plt ID: 183-00015
Reviewer: Bruce Farrar
Date: May 24, 2010**

| Emission Unit | Maximum Throughput (parts/hr) | Max Weight per part (lbs/part) | Process Throughput (lbs hour) | Soap Used | Max Amount of soap (gal/hour/machine) | Density (lbs/gal) | % VOC | VOC Emissions (tons/yr) |
|---------------|-------------------------------|--------------------------------|-------------------------------|------------|---------------------------------------|-------------------|-------|-------------------------|
| Tumbler #1 | 1000 | 0.1 | 100.00 | GNP-11P | 0.0078 | 8.88 | 8.00% | 0.024 |
| Tumbler #2 | 1000 | 0.1 | 100.00 | MC 740L | 0.0078 | 9.17 | 0.00% | 0.00 |
| | | | | Oakite NRP | 0.0078 | 9.45 | 0.00% | 0.00 |
| | | | | SC 129 | 0.0078 | 8.00 | 0.00% | 0.00 |
| | | | | Oakite 200 | 0.0078 | 8.43 | 7.50% | 0.022 |

Total VOC (tons/yr) = 0.046

Methodology

VOC Emissions (tons/yr) = Max amount of soap (gal/hr/machine) * Density (lbs/gal) * % VOC * 8760 hr/yr * 1 ton/2000lbs

| Emission Unit | Maximum Throughput (parts/hr) | Max Weight per part (lbs/part) | Process Throughput (lbs hour) | Material Lost (%)* | PM/PM10 Emissions (tons/year) |
|---------------|-------------------------------|--------------------------------|-------------------------------|--------------------|-------------------------------|
| Tumbler #1 | 1000 | 0.1 | 100.00 | 0.022% | 0.096 |
| Tumbler #2 | 1000 | 0.1 | 100.00 | 0.022% | 0.096 |

Total PM/PM10 (tons/yr) = 0.193

Methodology

Particulate Emissions (tons/yr) = Max through-put (parts/hr) * Max weight (lbs/part) * Material lost (%) * 8760 hrs/yr * 1ton/2000 lbs

* - Material lost based on deburring material lost, OAQ permit #183-14330-00015, issued August 1, 2001.

**Appendix A: Emissions Calculations
Enclosed Parts Washer**

**Company Name: Coupled Products, LLC
Address City IN Zip: 2651 South 600 East, Columbia City, Indiana 46725
Permit Number: 183-29293-00015
Plt ID: 183-00015
Reviewer: Bruce Farrar
Date: May 24, 2010**

| Emission Unit | No. of machines | Maximum Throughput (parts/hr) | Max Weight per part (lbs/part) | Process Throughput (lbs hour) | Soap Used | Max Amount of soap (gal/hour/machine) | Density (lbs/gal) | % VOC | VOC Emissions (tons/yr) |
|------------------------------|-----------------|-------------------------------|--------------------------------|-------------------------------|------------|---------------------------------------|-------------------|-------|-------------------------|
| Enclosed Parts Washer | 4 | 1000 | 0.1 | 100.00 | MC40L | 0.0078 | 9.17 | 0.00% | 0.00 |
| | | | | | Oakite NRP | 0.0078 | 9.45 | 0.00% | 0.00 |
| | | | | | SC 129 | 0.0078 | 8.00 | 0.00% | 0.00 |
| | | | | | Oakite 200 | 0.0078 | 8.43 | 7.50% | 0.346 |
| | | | | | Rust Inhib | 0.0078 | 9.26 | 0.00% | 0.00 |
| Total VOC (tons/yr) = | | | | | | | | | 0.346 |

Methodology

VOC Emissions (tons/yr) = Max amount of soap (gal/hr/machine) * No. of Machines * Density (lbs/gal) * % VOC * 8760 hr/yr * 1 ton/2000lbs

Appendix A: Emissions Calculations

Natural Gas Combustion Only

MM BTU/HR <100

Company Name: Coupled Products, LLC

Address City IN Zip: 2651 South 600 East, Columbia City, Indiana 46725

Permit Number: 183-29293-00015

Plt ID: 183-00015

Reviewer: Bruce Farrar

Date: May 24, 2010

Heat Input Capacity

MMBtu/hr

0.30

0.15

0.5

Potential Throughput

MMCF/yr

2.63

1.31

3.9

Emission Unit

TH#1-TH#3

0.10 MMBtu/hr, each

TH#4-#5

0.075 MMBtu/hr, each

| | Pollutant | | | | | |
|-------------------------------|-----------|----------|----------|--------------------|----------|------|
| | PM* | PM10* | SO2 | NOx | VOC | CO |
| Emission Factor in lb/MMCF | 1.9 | 7.6 | 0.6 | 100 **see below | 5.5 | 84 |
| Potential Emission in tons/yr | 3.74E-03 | 1.50E-02 | 1.18E-03 | 0.197 | 1.08E-02 | 0.17 |

*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

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

See page 6 for HAPs emissions calculations.

Appendix A: Emissions Calculations

Natural Gas Combustion Only

MM BTU/HR <100

HAPs Emissions

Company Name: Coupled Products, LLC

Address City IN Zip: 2651 South 600 East, Columbia City, Indiana 46725

Permit Number: 183-29293-00015

Plt ID: 183-00015

Reviewer: Bruce Farrar

Date: May 24, 2010

| HAPs - Organics | | | | | |
|-------------------------------|--------------------|----------------------------|-------------------------|-------------------|--------------------|
| Emission Factor in lb/MMcf | Benzene 2.1E-03 | Dichlorobenzene 1.2E-03 | Formaldehyde 7.5E-02 | Hexane 1.8E+00 | Toluene 3.4E-03 |
| Potential Emission in tons/yr | 4.139E-06 | 2.365E-06 | 1.478E-04 | 3.548E-03 | 6.701E-06 |

| HAPs - Metals | | | | | |
|-------------------------------|-----------------|--------------------|---------------------|----------------------|-------------------|
| Emission Factor in lb/MMcf | 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 | 9.855E-07 | 2.168E-06 | 2.759E-06 | 7.490E-07 | 4.139E-06 |

Methodology is the same as page 5.

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



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

Mitchell E. Daniels Jr.
Governor

Thomas W. Easterly
Commissioner

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

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

TO: Daniel Coyle
Coupled Products, LLC
2651 S 600 E
Columbus City, IN 46725

DATE: July 16, 2010

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

SUBJECT: Final Decision
Registration Revision
183-29293-00015

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:
Tina Johnson - Plant Manager
Brook A. Myer - August Mack Environmental, Inc.
OAQ Permits Branch Interested Parties List

If you have technical questions regarding the enclosed documents, please contact the Office of Air Quality, Permits Branch at (317) 233-0178, or toll-free at 1-800-451-6027 (ext. 3-0178), and ask to speak to the permit reviewer who prepared the permit. If you think you have received this document in error, please contact Joanne Smiddie-Brush of my staff at 1-800-451-6027 (ext 3-0185), or via e-mail at jbrush@idem.IN.gov.

Final Applicant Cover letter.dot 11/30/07

Mail Code 61-53

| | | | | |
|----------------------------|---|---|---|--|
| IDEM Staff | GHOTOPP 7/16/2010 Coupled Products, LLC 183-29293-00015 Final | | Type of Mail: CERTIFICATE OF MAILING ONLY | AFFIX STAMP HERE IF USED AS CERTIFICATE OF MAILING |
| Name and address of Sender |  | Indiana Department of Environmental Management Office of Air Quality – Permits Branch 100 N. Senate Indianapolis, IN 46204 | | |

| Line | Article Number | Name, Address, Street and Post Office Address | Postage | Handing Charges | Act. Value (If Registered) | Insured Value | Due Send if COD | R.R. Fee | S.D. Fee | S.H. Fee | Rest. Del. Fee | Remarks |
|------|----------------|--|---------|-----------------|----------------------------|---------------|-----------------|----------|----------|----------|----------------|---------|
| 1 | | Daniel Coyle Coupled Products, LLC 2651 S 600 E Columbia City IN 46725 (Source CAATS) via confirmed delivery | | | | | | | | | | |
| 2 | | Tina Johnson Plant Mgr Coupled Products, LLC 2651 S 600 E Columbia City IN 46725 (RO CAATS) | | | | | | | | | | |
| 3 | | Mr. Janel Rogers 2050 E Linker Rd Columbia City IN 46725 (Affected Party) | | | | | | | | | | |
| 4 | | Mr. Nondus Carr 1760 South 500 East Columbia City IN 46725 (Affected Party) | | | | | | | | | | |
| 5 | | Mr. Thomas E. Delaney 2640 East 400 Columbia City IN 46725 (Affected Party) | | | | | | | | | | |
| 6 | | Mr. William Overdeer 3285 Cider Mill Road Columbia City IN 46725 (Affected Party) | | | | | | | | | | |
| 7 | | Mr. Robert F. Taylor 7856 S 800 E-92 Fort Wayne IN 46814 (Affected Party) | | | | | | | | | | |
| 8 | | Daniel & Sandy Trimmer 15021 Yellow River Road Columbia City IN 46725 (Affected Party) | | | | | | | | | | |
| 9 | | Whitley County Commissioners 220 West Van Buren Street Suite 207 Columbia City IN 46725 (Local Official) | | | | | | | | | | |
| 10 | | Duane & Deborah Clark Clark Farms 6973 E. 500 S. Columbia City IN 46725 (Affected Party) | | | | | | | | | | |
| 11 | | William Riley PO Box 837 Columbia City IN 46725 (Affected Party) | | | | | | | | | | |
| 12 | | Gene Donaghy Northeastern REMC 4901 E. Park 30 Drive Columbia City IN 46725-8790 (Affected Party) | | | | | | | | | | |
| 13 | | Mr. Lynn Weirick 3954 E Old Trail Rd Columbia City IN 46725 (Affected Party) | | | | | | | | | | |
| 14 | | Whitley County Health Department 220 West Van Buren Steetr Suite 111 Columbia City IN 46725-2056 (Health Department) | | | | | | | | | | |
| 15 | | Ms. Camille Amiri News Channel 15 2915 W State Blvd Fort Wayne IN 46808 (Affected Party) | | | | | | | | | | |

| | | | |
|---|--|--|--|
| 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 Domestic Mail Manual R900, S913, and S921 for limitations of coverage on inured and COD mail. See International Mail Manual for limitations o coverage on international mail. Special handling charges apply only to Standard Mail (A) and Standard Mail (B) parcels. |
| 14 | | | |

Mail Code 61-53

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|----------------------------|---|---|---|--|
| IDEM Staff | GHOTOPP 7/16/2010 Coupled Products, LLC 183-29293-00015 Final | | Type of Mail: CERTIFICATE OF MAILING ONLY | AFFIX STAMP HERE IF USED AS CERTIFICATE OF MAILING |
| Name and address of Sender |  | Indiana Department of Environmental Management Office of Air Quality – Permits Branch 100 N. Senate Indianapolis, IN 46204 | | |

| Line | Article Number | Name, Address, Street and Post Office Address | Postage | Handing Charges | Act. Value (If Registered) | Insured Value | Due Send if COD | R.R. Fee | S.D. Fee | S.H. Fee | Rest. Del. Fee | Remarks |
|------|----------------|--|---------|-----------------|----------------------------|---------------|-----------------|----------|----------|----------|----------------|---------|
| 1 | | Charles 4655 S. 700 East Columbia City IN 46725 (Affected Party) | | | | | | | | | | |
| 2 | | Michael Gayle 1315 S. 500 East Columbia City IN 46725 (Affected Party) | | | | | | | | | | |
| 3 | | Mr. Columbia City Council and Mayors Office 112 South Chauncey Street Columbia City IN 46725 (Local Official) | | | | | | | | | | |
| 4 | | Brooke A. Myer August Mack Environmental, Inc. 1302 N. Meridian Street, Suite 300 Indianapolis IN 46202 (Consultant) | | | | | | | | | | |
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|---|--|--|--|
| 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 Domestic Mail Manual R900, S913, and S921 for limitations of coverage on inured and COD mail. See International Mail Manual for limitations o coverage on international mail. Special handling charges apply only to Standard Mail (A) and Standard Mail (B) parcels. |
| 4 | | | |