



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: May 3, 2012

RE: Delta Faucet Company / 031-31652-00007

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

Notice of Decision: Approval - Effective Immediately

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

If you wish to challenge this decision, IC 4-21.5-3-7 and IC 13-15-7-3 require that you file a petition for administrative review. This petition may include a request for stay of effectiveness and must be submitted to the Office Environmental Adjudication, 100 North Senate Avenue, Government Center North, Suite N 501E, Indianapolis, IN 46204, **within eighteen (18) 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
FNPER-MOD.dot 12/3/07



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Luke Fullenkamp
Delta Faucet Company
1425 West Main Street
Greensburg, Indiana 47240

May 3, 2012

Re: 031-31652-00007
First Minor Revision to
M031-20848-00007

Dear Luke Fullenkamp:

Delta Faucet Company was issued a Minor Source Operating Permit (MSOP) Renewal No. M031-20848-00007 on August 26, 2008 for a stationary chrome faucet electroplating source located at 1425 West Main Street, Greensburg, Indiana.

On March 22, 2012, the Office of Air Quality (OAQ) received an application from the source requesting to modify its permit to add one spray paint booth to its operation. The attached Technical Support Document (TSD) provides additional explanation of the changes to the source/permit. Pursuant to the provisions of 326 IAC 2-6.1-6, these changes to the permit are required to be reviewed in accordance with the Minor Permit Revision (MPR) procedures of 326 IAC 2-6.1-6(h). Pursuant to the provisions of 326 IAC 2-6.1-6, a minor permit revision to this permit is hereby approved as described in the attached Technical Support Document (TSD).

The following construction conditions are applicable to the proposed project:

1. General Construction Conditions
The data and information supplied with the application shall be considered part of this source modification approval. Prior to any proposed change in construction which may affect the potential to emit (PTE) of the proposed project, the change must be approved by the Office of Air Quality (OAQ).
2. This approval to construct does not relieve the permittee of the responsibility to comply with the provisions of the Indiana Environmental Management Law (IC 13-11 through 13-20; 13-22 through 13-25; and 13-30), the Air Pollution Control Law (IC 13-17) and the rules promulgated thereunder, as well as other applicable local, state, and federal requirements.
3. Effective Date of the Permit
Pursuant to IC 13-15-5-3, this approval becomes effective upon its issuance.
4. Pursuant to 326 IAC 2-1.1-9 (Revocation), the Commissioner may revoke this approval if construction is not commenced within eighteen (18) months after receipt of this approval or if construction is suspended for a continuous period of one (1) year or more.
5. All requirements and conditions of this construction approval shall remain in effect unless modified in a manner consistent with procedures established pursuant to 326 IAC 2.

Pursuant to 326 IAC 2-6.1-6, this permit shall be revised by incorporating the minor permit revision into the permit. All other conditions of the permit shall remain unchanged and in effect. Attached

please find the entire revised permit.

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 Jack Harmon, of my staff, at 317-233-4228 or 1-800-451-6027, and ask for extension 3-4228.

Sincerely,



Iryn Callilung, Section Chief
Permits Branch
Office of Air Quality

Attachments: Technical Support Document and revised permit

IC/jh

cc: File - Decatur County
Decatur County Health Department
U.S. EPA, Region V
Compliance and Enforcement Branch
Billing, Licensing and Training Section



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Minor Source Operating Permit Renewal OFFICE OF AIR QUALITY

Delta Faucet Company
1425 West Main Street
Greensburg, Indiana 47240

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

This permit is issued to the above mentioned company under the provisions of 326 IAC 2-1.1, 326 IAC 2-6.1 and 40 CFR 52.780, with conditions listed on the attached pages.

Indiana statutes from IC 13 and rules from 326 IAC, quoted in conditions in this permit, are those applicable at the time the permit was issued. The issuance or possession of this permit shall not alone constitute a defense against an alleged violation of any law, regulation or standard, except for the requirement to obtain a MSOP under 326 IAC 2-6.1.

Operation Permit No.: M031-20848-00007	
Original Signed by: Iryn Calilung, Section Chief Permits Branch Office of Air Quality	Expiration Date: August 28, 2018
First Notice-Only Change No.: 031-28752-00007, issued January 20, 2010 Second Notice-Only Change No.: 031-29773-00007, issued December 1, 2010 Third Notice-Only Change No.: 031-31320-00007, issued February 8, 2012	
First Minor Permit Revision No. 031-31652-00007	
Issued by:  Iryn Calilung, Section Chief Permits Branch Office of Air Quality	Issuance Date: May 3, 2012 Expiration Date: August 28, 2018

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Attachment B: NESHAP 40 CFR 63, Subpart WWWWWW

SECTION A

SOURCE SUMMARY

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

A.1 General Information [326 IAC 2-5.1-3(c)][326 IAC 2-6.1-4(a)]

The Permittee owns and operates a stationary chrome faucet electroplating source.

Source Address:	1425 West Main Street, Greensburg, Indiana 47240
General Source Phone Number:	812-663-4433
SIC Code:	3432 (Plumbing Fixture Fittings and Trims)
County Location:	Decatur
Source Location Status:	Attainment for all criteria pollutants
Source Status:	Minor Source Operating Permit Program Minor Source, under PSD and Emission Offset Rules Minor Source, Section 112 of the Clean Air Act Not 1 of 28 Source Categories

A.2 Emission Units and Pollution Control Equipment Summary

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

- (a) One (1) decorative chromium electroplating tank, identified as T27, constructed prior to December 16, 1993, using a trivalent chromium bath, using a chemical fume suppressant containing a wetting agent for control and exhausting at stack 1038Cr. This tank is also equipped with a three stage mesh-pad scrubber that is not used for compliance to NESHAP.

Under 40 CFR 63, Subpart N, this is considered an existing decorative chromium electroplating tank [40CFR 63, Subpart N];

- (b) One (1) Multi-Finish electroplating line, identified as 3700, with a capacity of 1,800 pounds of metal and plastic parts per hour, consisting of the following:
- (1) Three (3) nickel plating tanks, identified as stations 39 through 42, 49 through 52, and 53 through 56, equipped with the nickel/cleaner scrubber, and exhausting through the Multi-Finish Line Nickel/Cleaner Scrubber Stack
- [40 CFR Part 63, Subpart WWWWWW];
- (2) One (1) copper sulfate plating tank, identified as stations 32 through 35, equipped with the nickel/cleaner scrubber, and exhausting through the Multi-Finish Line Nickel/Cleaner Scrubber Stack
- [40 CFR Part 63, Subpart WWWWWW];
- (3) One (1) decorative chromium plating tank identified as tank 3700-S6768, with two (2) stations, identified as stations 67 and 68, using a fume suppressant containing a wetting agent as control, and exhausting through the chromium scrubber, which is a three stage mesh-pad scrubber and is not used for

compliance to NESHAP, and exhausting through the Multi-Finish Line Chromium Scrubber Stack.

Under 40 CFR 63, Subpart N, this is considered an existing decorative chromium electroplating tank [40CFR 63, Subpart N];

- (4) One (1) chrome pre-dip tank, identified as station 64, equipped with the chromium scrubber, and exhausting through the Multi-Finish Line Chromium Scrubber Stack;
- (5) One (1) rack strip tank, identified as stations 207 through 210, equipped with the rack strip scrubber, and exhausting through the Multi-Finish Line Rack Strip Scrubber Stack;
- (6) Two (2) chrome strip tanks, identified as stations 15, 197 through 198, equipped with the nickel/cleaner scrubber, and exhausting through the Multi-Finish Line Nickel/Cleaner Scrubber Stack and to the Multi-Finish Line Rack Strip Scrubber Stack, respectively;
- (7) Rinse tanks, equipped with the nickel/cleaner scrubber, and exhausting through the Multi-Finish Line Nickel/Cleaner Scrubber Stack;
- (8) Five (5) cleaner tanks, identified as stations 3 through 5, 7 through 8, 11 through 12, 18, and 22.

One (1) oxidizer tank (Black Magic) identified as station 46 and one (1) acid tank identified as station 25, equipped with the nickel/cleaner scrubber as in 6 and 7, and exhausting through the Multi-Finish Line Nickel/Cleaner Scrubber Stack;

(c) Natural Gas Combustion Boilers:

- (1) One (1) natural gas-fired boiler, identified as 586 (south), constructed in 1975, exhausting at stack 586, capacity: 25.20 million British thermal units per hour;
- (2) One (1) natural gas-fired boiler, identified as 2256 (north), constructed in 1994, exhausting at stack 2256, capacity: 14.70 million British thermal units per hour [40 CFR 60 Subpart Dc];

(d) One (1) powder spray booth, identified as 4160, constructed in 2005, also utilizing an electric cure oven for R&D purposes, equipped with an integral cartridge filtration system, exhausting inside, capacity; 2.6 tons of parts coated per hour, and using 13.9 pounds of powder per hour;

(e) One (1) chromate conversion tank, identified as powder chromate tank, constructed in July 2009, with a maximum capacity of 888 parts per hour, no control.

[40 CFR Part 63, Subpart WWWW];

(f) Three (3) parts washers, using approximately combined 778 total gallons of solvent per year, to remove oil and grease from metal parts, using solvent that contains 100% VOC;

(g) Buffing Stations:

- (1) Buffing operations, including thirty-eight (38) hand buffing stations installed between 1965 and 2005, equipped with two (2) air washers, identified as 3011/3915, and exhausting at stacks 3011/3915;

- (2) Six (6) robot buffing stations; identified as 3213, 3215, and 3997; constructed in 2000, 2001, and 2004, respectively; and robot buffing stations; identified as 4081, 4082, and 4083; constructed in May 2005; and each station also connected to an air washer, identified as 3011, exhausting at stack 3011;
 - (3) Three (3) rotary buffing stations; identified as 433, 236, and 4084; installed between 1965 and 2005, and each station connected to air washers, identified as 3011/3915 and exhausting to stacks 3011/3915;
 - (4) One (1) texturing station; identified as 4431 and one (1) L4 rotary station; identified as 709; installed between 1985 and 2006, and each station connected to air washers identified as 3011/3915 and exhausting to stacks 3011/3915;
 - (5) One (1) two wheel buffering station; identified as 3979; installed in 2001, connected to a fabric filter collector that exhausts to the interior of the building;
- (h) Natural Gas Combustion Ovens:
- (1) One (1) natural gas-fired fluidized bed burn-off oven (2907), rated at 0.99 million British thermal units per hour (MMBtu/hr), with a maximum capacity of 301 pounds per hour of parts using 1.56 pounds per hour of sand, using a cyclone for particulate control, and exhausting at one (1) stack identified as 2918;
 - (2) One (1) natural gas-fired curing oven, identified as 4180 custom coating, constructed in 2005, and exhausting at stack 4160, capacity: 0.8 million British thermal units per hour;
 - (3) One (1) natural gas-fired dry-off oven, identified as 4179, constructed in 2005, capacity: 0.5 million British thermal units, and exhausting at stack 4179;
- (i) One (1) nickel electroplating bath, identified as T22a, equipped with a combination packed bed/chevron blade wet scrubber to minimize nickel emissions from T22a, and exhausting at stack 1038Ni
- [An affected facility under 40 CFR 63, NESHAP WWWWWW];
- (j) One (1) nickel electroplating bath, identified as T22b, approved for construction in 2009, equipped with a combination packed bed/chevron blade wet scrubber to minimize nickel emissions from T22b, and exhausting at stack 1038Ni
- [An affected facility under 40 CFR 63, NESHAP WWWWWW];
- (k) One (1) chromate conversion tank, identified as 1038 chromate tank, constructed in April 2010, with maximum capacity of 64 parts per hour, no control.
- [40 CFR Part 63, Subpart WWWWWW];
- (l) Plating Tanks:
- (1) One (1) copper plating tank, consisting of two tanks plumbed together, identified as T23-T24, equipped with a combination packed bed/chevron blade/mesh pad wet scrubber to minimize copper emissions from T23-T24, and exhausting at stack 574;
- (m) Strip Lines:

- (1) One (1) strip line, identified as 255P using sulfuric acid, ammonium bifluoride, equipped with one (1) packed bed wet scrubber, identified as machine number 2986, and exhausting at stack 255P. A used acid tank and an acid/cleaner tank exhaust to another packed bed wet scrubber, identified as machine number 3312, and exhausting at stack the 255R;
- (2) One (1) rack strip line, identified as 1038, approved for construction in 2012, consisting of (2) rack strips tanks, four (4) rinse tanks and one (1) hot rinse tank, equipped with a combination packed bed/chevron blade/mesh pad wet scrubber to minimize any stripping related emissions from this line, and exhausting to stack 3230, maximum capacity; 2.05 pounds of alkaline cleaner per hour, 0.09 pound of aqua ammonia per hour, 0.06 pound of Acetic Acid per hour, and 0.49 pound of Nitric Acid per hour;
- (3) One (1) rack strip line, identified as 4560, constructed in 2007, including two (2) rinse tanks and one (1) strip tank, maximum capacity; 2.05 pounds of alkaline cleaner per hour, 0.09 pound of aqua ammonia per hour, 0.06 pound of Acetic Acid per hour, and 0.49 pound of Nitric Acid per hour;
- (n) One (1) maintenance tool room which includes:
 - (1) One (1) maintenance welding booth, identified as Booth 11-1, connected to a mesh pad filter system, exhausting to the interior of the building, capacity: 0.2 pound of acetylene/oxygen/argon welding wire per hour;
 - (2) Multiple hand grinding units;
 - (3) Multiple hand drilling units;
 - (4) One (1) maintenance glass bead blast cabinet, identified as unit 711, utilizing a collector for particulate control, constructed in 1979;
- (o) Glass bead blast Cabinets:
 - (1) One (1) PVD Unit 1065 glass bead blast cabinet utilizing a collector for particulate control, constructed in 1990;
 - (2) One (1) additional glass bead blast cabinets: (1) identified as buffing unit 4118 glass bead blast cabinet utilizing a collector;
- (p) Two (2) lab hoods;
- (q) One (1) inductively coupled plasma (ICP) unit;
- (r) One (1) passivation process, identified as line 9069, constructed in June 1998, consisting of:
 - (1) One (1) chromate/nitric acid/water solution tank, identified as Tank #1;
 - (2) One (1) rinse water tank, identified as Tank #2;
 - (3) One (1) hot dionized water tank, identified as Tank #3 equipped with a combination packed bed/chevron blade/mesh pad wet scrubber;
- (s) Various machining equipment where aqueous cutting coolant continuously floods the machining surface in the machining area. There are no criteria pollutants being emitted; 326 IAC2-1.1-3 (e)(10)(B);

- (t) One (1) open tumblers, identified as 4119, constructed in 2005, using plastic media to smooth edges of parts;
- (u) One (1) wastewater treatment area, constructed in 1974, the pH is adjusted utilizing sulfuric acid, consisting of:

One bulk waste cleaner tank;
- (v) One (1) dip area, identified as 4406, consisting of a sulfuric acid/water tank equipped with a mist eliminator exhausting externally, one (1) water rinse tank, and one (1) water spray tank, to remove a white ash material contained on racks. There are no criteria pollutants emitted because of dip operation;
- (w) Four (4) R & D hand dipping/manual plating lines, used for research and development as well as production of electroless copper plating. These R&D lines consist of copper, nickel, trivalent chromium, non-cyanide bronze plating tanks, controlled by two (2) horizontal wet pack bed scrubbers, and exhausting through Stacks 4414 and 4467.
- (x) Four (4) salt spray booths, identified as 2043, 4717, 3660, and 3850, constructed in 1985, 2011, 2002, and 2003 respectively, spraying an aqueous salt solution and no criteria pollutants are generated from this process;
- (y) Four (4) physical vacuum deposition (PVD) chambers; identified as 3740, 3787, 3940, and 4063; constructed in 2003, 2003, 2004, and 2004, respectively. PVD process deposits Zirconium material onto various parts. No HAPs are generated;
- (z) One (1) spray paint booth, identified as 4735, approved for construction in 2012, with a maximum capacity to paint 60 racks per hour, containing 70 plastic parts each rack, using a solvent-based spray coating that will be applied with one electrostatic air atomized spray gun inside a spray booth, using panel filters for particulate control, and exhausting through stack Spray Booth.

SECTION B GENERAL CONDITIONS

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

Terms in this permit shall have the definition assigned to such terms in the referenced regulation. In the absence of definitions in the referenced regulation, the applicable definitions found in the statutes or regulations (IC 13-11, 326 IAC 1-2 and 326 IAC 2-1.1-1) shall prevail.

B.2 Permit Term [326 IAC 2-6.1-7(a)][326 IAC 2-1.1-9.5][IC 13-15-3-6(a)]

- (a) This permit, M031-20848-00007, is issued for a fixed term of ten (10) years from the issuance date of this permit, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date of this permit.
- (b) If IDEM, OAQ, upon receiving a timely and complete renewal permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect, until the renewal permit has been issued or denied.

B.3 Term of Conditions [326 IAC 2-1.1-9.5]

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

- (a) the condition is modified in a subsequent permit action pursuant to Title I of the Clean Air Act; or
- (b) the emission unit to which the condition pertains permanently ceases operation.

B.4 Enforceability

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

B.5 Severability

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

B.6 Property Rights or Exclusive Privilege

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

B.7 Duty to Provide Information

- (a) The Permittee shall furnish to IDEM, OAQ, within a reasonable time, any information that IDEM, OAQ may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. Upon request, the Permittee shall also furnish to IDEM, OAQ copies of records required to be kept by this permit.
- (b) For information furnished by the Permittee to IDEM, OAQ, the Permittee may include a claim of confidentiality in accordance with 326 IAC 17.1. When furnishing copies of requested records directly to U. S. EPA, the Permittee may assert a claim of confidentiality in accordance with 40 CFR 2, Subpart B.

B.8 Annual Notification [326 IAC 2-6.1-5(a)(5)]

- (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 permit.
- (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, Indiana 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.9 Preventive Maintenance Plan [326 IAC 1-6-3]

- (a) If required by specific condition(s) in Section D of this permit, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMPs) no later than ninety (90) days after issuance of this permit or ninety (90) days after initial start-up, whichever is later, including the following information on each facility:
 - (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;
 - (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and
 - (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

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

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

The Permittee shall implement the PMPs.

- (b) A copy of the PMPs shall be submitted to IDEM, OAQ upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or is the primary contributor to an exceedance of any limitation on emissions.
- (c) To the extent the Permittee is required by 40 CFR Part 60/63 to have an Operation Maintenance, and Monitoring (OMM) Plan for a unit, such Plan is deemed to satisfy the PMP requirements of 326 IAC 1-6-3 for that unit.

B.10 Prior Permits Superseded [326 IAC 2-1.1-9.5]

- (a) All terms and conditions of permits established prior to M031-20848-00007 and issued pursuant to permitting programs approved into the state implementation plan have been either:
- (1) incorporated as originally stated,
 - (2) revised, or
 - (3) deleted.
- (b) All previous registrations and permits are superseded by this permit.

B.11 Termination of Right to Operate [326 IAC 2-6.1-7(a)]

The Permittee's right to operate this source terminates with the expiration of this permit unless a timely and complete renewal application is submitted at least one hundred twenty (120) days prior to the date of expiration of the source's existing permit, consistent with 326 IAC 2-6.1-7.

B.12 Permit Renewal [326 IAC 2-6.1-7]

- (a) The application for renewal shall be submitted using the application form or forms prescribed by IDEM, OAQ and shall include the information specified in 326 IAC 2-6.1-7. Such information shall be included in the application for each emission unit at this source. The renewal application does require an affirmation that the statements in the application are true and complete by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

Request for renewal shall be submitted to:

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

- (b) A timely renewal application is one that is:
- (1) Submitted at least one hundred twenty (120) days prior to the date of the expiration of this permit; and
 - (2) If the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.
- (c) If the Permittee submits a timely and complete application for renewal of this permit, the source's failure to have a permit is not a violation of 326 IAC 2-6.1 until IDEM, OAQ takes final action on the renewal application, except that this protection shall cease to apply if, subsequent to the completeness determination, the Permittee fails to submit by the deadline specified, pursuant to 326 IAC 2-6.1-4(b), in writing by IDEM, OAQ any additional information identified as being needed to process the application.

B.13 Permit Amendment or Revision [326 IAC 2-5.1-3(e)(3)][326 IAC 2-6.1-6]

- (a) Permit amendments and revisions are governed by the requirements of 326 IAC 2-6.1-6 whenever the Permittee seeks to amend or modify this permit.

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

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

- (c) The Permittee shall notify the OAQ no later than thirty (30) calendar days of implementing a notice-only change. [326 IAC 2-6.1-6(d)]

B.14 Source Modification Requirement

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

B.15 Inspection and Entry

[326 IAC 2-5.1-3(e)(4)(B)][326 IAC 2-6.1-5(a)(4)][IC 13-14-2-2][IC 13-17-3-2][IC 13-30-3-1]

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

- (a) Enter upon the Permittee's premises where a permitted source is located, or emissions related activity is conducted, or where records must be kept under the conditions of this permit;
- (b) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
- (c) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, inspect, at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit;
- (d) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with this permit or applicable requirements; and
- (e) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of assuring compliance with this permit or applicable requirements.

B.16 Transfer of Ownership or Operational Control [326 IAC 2-6.1-6]

- (a) The Permittee must comply with the requirements of 326 IAC 2-6.1-6 whenever the Permittee seeks to change the ownership or operational control of the source and no other change in the permit is necessary.
- (b) Any application requesting a change in the ownership or operational control of the source shall contain a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new Permittee. The application shall be submitted to:

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

The application which shall be submitted by the Permittee does require an affirmation that the statements in the application are true and complete by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (c) The Permittee may implement notice-only changes addressed in the request for a notice-only change immediately upon submittal of the request. [326 IAC 2-6.1-6(d)(3)]

B.17 Annual Fee Payment [326 IAC 2-1.1-7]

- (a) The Permittee shall pay annual fees due no later than thirty (30) calendar days of receipt of a bill from IDEM, OAQ,.
- (b) The Permittee may call the following telephone numbers: 1-800-451-6027 or 317-233-4230 (ask for OAQ, Billing, Licensing, and Training Section), to determine the appropriate permit fee.

B.18 Credible Evidence [326 IAC 1-1-6]

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

SECTION C SOURCE OPERATION CONDITIONS

Entire Source

Emission Limitations and Standards [326 IAC 2-6.1-5(a)(1)]

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

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

C.2 Permit Revocation [326 IAC 2-1.1-9]

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

- (a) Violation of any conditions of this permit.
- (b) Failure to disclose all the relevant facts, or misrepresentation in obtaining this permit.
- (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 permit shall not require revocation of this permit.
- (d) Noncompliance with orders issued pursuant to 326 IAC 1-5 (Episode Alert Levels) to reduce emissions during an air pollution episode.
- (e) For any cause which establishes in the judgment of IDEM, the fact that continuance of this permit is not consistent with purposes of this article.

C.3 Opacity [326 IAC 5-1]

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

- (a) Opacity shall not exceed an average of 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 non-overlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

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

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

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

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

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

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

C.7 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M]

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

All required notifications shall be submitted to:

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

The notice shall include a signed certification from the owner or operator that the information provided in this notification is correct and that only Indiana licensed workers and project supervisors will be used to implement the asbestos removal project.

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

- (f) **Demolition and Renovation**
The Permittee shall thoroughly inspect the affected facility or part of the facility where the demolition or renovation will occur for the presence of asbestos pursuant to 40 CFR 61.145(a).
- (g) **Indiana Licensed Asbestos Inspector**
The Permittee shall comply with 326 IAC 14-10-1(a) that requires the owner or operator, prior to a renovation/demolition, to use an Indiana Licensed Asbestos Inspector to thoroughly inspect the affected portion of the facility for the presence of asbestos. The requirement to use an Indiana Licensed Asbestos inspector is not federally enforceable.

Testing Requirements [326 IAC 2-6.1-5(a)(2)]

C.8 Performance Testing [326 IAC 3-6]

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

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

no later than thirty-five (35) days prior to the intended test date.
- (b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14) days prior to the actual test date.
- (c) Pursuant to 326 IAC 3-6-4(b), all test reports must be received by IDEM, OAQ not later than forty-five (45) days after the completion of the testing. An extension may be granted by IDEM, OAQ if the Permittee submits to IDEM, OAQ a reasonable written explanation not later than five (5) days prior to the end of the initial forty-five (45) day period.

Compliance Requirements [326 IAC 2-1.1-11]

C.9 Compliance Requirements [326 IAC 2-1.1-11]

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

Compliance Monitoring Requirements [326 IAC 2-6.1-5(a)(2)]

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

Compliance with applicable requirements shall be documented as required by this permit. The Permittee shall be responsible for installing any necessary equipment and initiating any required monitoring related to that equipment. All monitoring and record keeping requirements not already legally required shall be implemented when operation begins.

C.11 Instrument Specifications [326 IAC 2-1.1-11]

- (a) When required by any condition of this permit, an analog instrument used to measure a parameter related to the operation of an air pollution control device shall have a scale such that the expected maximum reading for the normal range shall be no less than twenty percent (20%) of full scale.
- (b) The Permittee may request that the IDEM, OAQ approve the use of an instrument that does not meet the above specifications provided the Permittee can demonstrate that an alternative instrument specification will adequately ensure compliance with permit conditions requiring the measurement of the parameters.

Corrective Actions and Response Steps

C.12 Response to Excursions or Exceedances

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

- (a) The Permittee shall take reasonable response steps to restore operation of the emissions unit (including any control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing excess emissions.
- (b) The response shall include minimizing the period of any startup, shutdown or malfunction. The response may include, but is not limited to, the following:
 - (1) initial inspection and evaluation;
 - (2) recording that operations returned or are returning to normal without operator action (such as through response by a computerized distribution control system);
or
 - (3) any necessary follow-up actions to return operation to normal or usual manner of operation.
- (c) A determination of whether the Permittee has used acceptable procedures in response to an excursion or exceedance will be based on information available, which may include, but is not limited to, the following:
 - (1) monitoring results;
 - (2) review of operation and maintenance procedures and records; and/or
 - (3) inspection of the control device, associated capture system, and the process.
- (d) Failure to take reasonable response steps shall be considered a deviation from the permit.

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

C.13 Actions Related to Noncompliance Demonstrated by a Stack Test

- (a) When the results of a stack test performed in conformance with Section C - Performance Testing, of this permit exceed the level specified in any condition of this permit, the Permittee shall submit a description of its response actions to IDEM, OAQ, no later than seventy-five (75) days after the date of the test.
- (b) A retest to demonstrate compliance shall be performed no later than one hundred eighty (180) days after the date of the test. Should the Permittee demonstrate to IDEM, OAQ that retesting in one hundred eighty (180) days is not practicable, IDEM, OAQ may extend the retesting deadline
- (c) IDEM, OAQ reserves the authority to take any actions allowed under law in response to noncompliant stack tests.

Record Keeping and Reporting Requirements [326 IAC 2-6.1-5(a)(2)]

C.14 Malfunctions Report [326 IAC 1-6-2]

Pursuant to 326 IAC 1-6-2 (Records; Notice of Malfunction):

- (a) A record of all malfunctions, including startups or shutdowns of any facility or emission control equipment, which result in violations of applicable air pollution control regulations or applicable emission limitations shall be kept and retained for a period of three (3) years and shall be made available to the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ) or appointed representative upon request.
- (b) When a malfunction of any facility or emission control equipment occurs which lasts more than one (1) hour, said condition shall be reported to OAQ, using the Malfunction Report Forms (2 pages). Notification shall be made by telephone or facsimile, as soon as practicable, but in no event later than four (4) daytime business hours after the beginning of said occurrence.
- (c) Failure to report a malfunction of any emission control equipment shall constitute a violation of 326 IAC 1-6, and any other applicable rules. Information of the scope and expected duration of the malfunction shall be provided, including the items specified in 326 IAC 1-6-2(a)(1) through (6).
- (d) Malfunction is defined as any sudden, unavoidable failure of any air pollution control equipment, process, or combustion or process equipment to operate in a normal and usual manner. [326 IAC 1-2-39]

C.15 General Record Keeping Requirements [326 IAC 2-6.1-5]

- (a) Records of all required monitoring data, reports and support information required by this permit shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. These records shall be physically present or electronically accessible at the source location for a minimum of three (3) years. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.
- (b) Unless otherwise specified in this permit, for all record keeping requirements not already legally required, the Permittee shall be allowed up to ninety (90) days from the date of

permit issuance or the date of initial start-up, whichever is later, to begin such record keeping.

C.16 General Reporting Requirements [326 IAC 2-1.1-11] [326 IAC 2-6.1-2] [IC 13-14-1-13]

- (a) Reports required by conditions in Section D of this permit shall be submitted to:
- Indiana Department of Environmental Management
Compliance and Enforcement Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251
- (b) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.
- (c) The first report shall cover the period commencing on the date of issuance of this permit or the date of initial start-up, whichever is later, and ending on the last day of the reporting period. Reporting periods are based on calendar years, unless otherwise specified in this permit. For the purpose of this permit, "calendar year" means the twelve (12) month period from January 1 to December 31 inclusive.

SECTION D.1 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

- (a) One (1) decorative chromium electroplating tank, identified as T27, constructed prior to December 16, 1993, using a trivalent chromium bath, using a chemical fume suppressant containing a wetting agent for control and exhausting at stack 1038Cr. This tank is also equipped with a three stage mesh-pad scrubber that is not used for compliance to NESHAP.

Under 40 CFR 63, Subpart N, this is considered an existing decorative chromium electroplating tank [40CFR 63, Subpart N];

- (b) One (1) Multi-Finish electroplating line, identified as 3700, with a capacity of 1,800 pounds of metal and plastic parts per hour, consisting of the following:

- (1) Three (3) nickel plating tanks, identified as stations 39 through 42, 49 through 52, and 53 through 56, equipped with the nickel/cleaner scrubber, and exhausting through the Multi-Finish Line Nickel/Cleaner Scrubber Stack

[40 CFR Part 63, Subpart WWWWWW];

- (2) One (1) copper sulfate plating tank, identified as stations 32 through 35, equipped with the nickel/cleaner scrubber, and exhausting through the Multi-Finish Line Nickel/Cleaner Scrubber Stack;

- (3) One (1) decorative chromium plating tank identified as tank 3700-S6768, with two (2) stations, identified as stations 67 and 68, using a fume suppressant containing a wetting agent as control, and exhausting through the chromium scrubber, which is a three stage mesh-pad scrubber and is not used for compliance, and exhausting through the Multi-Finish Line Chromium Scrubber Stack. Under 40 CFR 63, Subpart N, this is considered an existing decorative chromium electroplating tank

[40CFR 63, Subpart N];

- (4) One (1) chrome pre-dip tank, identified as station 64, equipped with the chromium scrubber, and exhausting through the Multi-Finish Line Chromium Scrubber Stack;

- (5) One (1) rack strip tank, identified as stations 207 through 210, equipped with the rack strip scrubber, and exhausting through the Multi-Finish Line Rack Strip Scrubber Stack;

- (6) Two (2) chrome strip tanks, identified as stations 15, 197 and 198, equipped with the nickel/cleaner scrubber, and exhausting through the Multi-Finish Line Nickel/Cleaner Scrubber Stack and to the Multi-Finish Line Rack Strip Scrubber Stack, respectively;

- (7) Rinse tanks, equipped with the nickel/cleaner scrubber, and exhausting through the Multi-Finish Line Nickel/Cleaner Scrubber Stack; and

- (8) Five (5) cleaner tanks, identified as stations 3 through 5, 7 through 8, 11 through 12, 18, and 22.

One (1) oxidizer tank (Black Magic) identified as station 46 and one (1) acid tank identified as station 25, equipped with the nickel/cleaner scrubber as in 6 and 7, and exhausting through the Multi-Finish Line Nickel/Cleaner Scrubber Stack.

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

National Emission Standards for Hazardous Air Pollutants (NESHAP) Requirements

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

- (a) Pursuant to 40 CFR 63, the Permittee shall comply with the provisions of 40 CFR 63 Subpart A - General Provisions, which are incorporated by reference as 326 IAC 20-1-1 for the decorative trivalent chromium electroplating tanks, identified as Tank 27 and Tank 3700-S6768, as specified in Appendix A of 40 CFR Part 63, Subpart N apply to the facilities described in this section except when otherwise specified in 40 CFR 63 Subpart N.
- (b) Pursuant to 40 CFR 63.10, the Permittee shall submit all required notifications and reports 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

D.1.2 Chromium Electroplating NESHAP [326 IAC 20-8-1] [40 CFR 63.342(c)&(f)] [40 CFR 63.343(a)(1)&(2)]

Pursuant to 40 CFR Part 63, Tank T27, and Tank 3700-S6768, are subject to 40 CFR Part 63, Subpart N, which is incorporated by reference as 326 IAC 20-8-1. The Permittee which engages in decorative chromium electroplating operation shall comply with the provisions of 40 CFR Part 63, Subpart N (included as Attachment A of this permit).

The existing electroplating tanks are subject to the following portions of 40 CFR 63, Subpart N. Non applicable portions of the NESHAP will not be included in the permit.

Applicable portions of the NESHAP are the following:

- (a) 40 CFR 63.340
- (b) 40 CFR 63.341
- (c) 40 CFR 63.342(a), (b), (c), (d), (d), (f)
- (d) 40 CFR 63.343(a)(1)(3)(4)(5)(6), (b), (c)
- (e) 40 CFR 63.344
- (f) 40 CFR 63.345
- (g) 40 CFR 63.346
- (h) 40 CFR 63.347
- (i) 40 CFR 63.348

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

Compliance Determination Requirements [326 IAC 2-6.1-5]

D.1.3 Preventive Maintenance Plan [326 IAC 1-6-3]

A Preventive Maintenance Plan is required for Tank T27 and Tank 3700-S6768. Section B – Preventive Maintenance Plan contains the Permittee's obligation with regard to the preventive maintenance Plan required by this condition.

SECTION D.2 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

- (c) Natural Gas Combustion Boilers:
- (1) One (1) natural gas-fired boiler, identified as 586 (south), constructed in 1975, exhausting at stack 586, capacity: 25.20 million British thermal units per hour;
 - (2) One (1) natural gas-fired boiler, identified as 2256 (north), constructed in 1994, exhausting at stack 2256, capacity: 14.70 million British thermal units per hour
- [40 CFR 60, Subpart Dc];

(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 2-6.1-5(1)]

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

Pursuant to 326 IAC 6-2-3(e) (Particulate emission limitations for sources of indirect heating: emission limitations for facilities specified in 326 IAC 6-2-1(c)), particulate emissions from all facilities used for indirect heating purposes which have 250 million British thermal units or less heat input or less and began operation after June 8, 1972, shall in no case exceed 0.6 pound of particulate matter per million British thermal units heat input. Therefore, the one (1) boiler, identified as 586 (south), shall not exceed more than 0.6 pound per million British thermal units.

D.2.2 Particulate Emission Limitations [326 IAC 6-2-4]

- (a) Pursuant to 326 IAC 6-2-4(a), the PM emissions from the natural gas-fired boiler, identified as 2256 (north), shall not exceed 0.35 pound per million British thermal units.

These limitations were computed using the following equation:

$$Pt = 1.09/Q^{0.26}$$

where:

Pt = Pounds of particulate emitted per million British thermal units (lb/MMBtu) heat input

Q = Total source maximum operating capacity rating in million British thermal units per hour (MMBtu/hr) heat input. The maximum operating capacity rating is defined as the maximum capacity at which the facility is operated or the nameplate capacity, whichever is specified in the facility's permit application, except when some lower capacity is contained in the facility's operation permit; in which case, the capacity specified in the operation permit shall be used.

SECTION D.3 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

- (d) One (1) powder spray booth, identified as 4160, constructed in 2005, also utilizing an electric cure oven for R&D purposes, equipped with an integral cartridge filtration system, exhausting inside, capacity; 2.6 tons of parts coated per hour, and using 13.9 pounds of powder per hour;
- (e) One (1) chromate conversion tank, identified as powder chromate tank, constructed in July 2009, with a capacity of 888 parts per hour

[40 CFR Part 63, Subpart WWWW];

(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 2-6.1-5(1)]

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

Pursuant to 326 IAC 6-3-2(e) the particulate emissions from powder spray booth, identified as 4160, shall be limited to 7.78 pounds per hour when operating at a process weight rate of 2.6 tons per hour.

The limitations for the powder spray booth, identified as 4160, was calculated using 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:

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

D.3.2 Preventive Maintenance Plan [326 IAC 2-6-1.5]

A Preventive Maintenance Plan is required for the powder booth, 4160, powder reclaim system for the booth, and its cartridge filtration system which is considered integral to the system. Section B – Preventive Maintenance Plan contains the Permittee's obligation with regard to the preventive maintenance Plan required by this condition.

Compliance Determination Requirements

D.3.3 Particulate Control

The cartridge filtration system integral to the spray booth, shall be in operation at all times when the powder spray booth, identified as 4160 is in operation.

D.3.4 Manufacturer's Specifications [326 IAC 2-6-1.5]

The powder booth, identified as 4160 and the cartridge filtration integral to the system shall operate per manufacturer's specifications.

SECTION D.4 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

- (f) Three (3) parts washers, using approximately combined 778 gallons of solvent per year, to remove oil and grease from metal parts, using solvent that contains 100% VOC;

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

D.4.1 Volatile Organic Compounds (VOC) [326 IAC 8-3-2]

Pursuant to 326 IAC 8-3-2, for each of the parts washers, the owner or operator shall:

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

D.4.2 Volatile Organic Compounds (VOC) [326 IAC 8-3-5]

- (a) Pursuant 326 IAC 8-3-5(a), the owner or operator shall ensure that the following control equipment requirements are met for each of the three (3) parts washers:
 - (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 326 IAC 8-3-5(b).

- (4) The solvent spray, if used, must be a solid, fluid stream and shall be applied at a pressure which does not cause excessive splashing.
 - (5) Equip the degreaser with one (1) of the following control devices if the solvent volatility is greater than four and three-tenths (4.3) kiloPascals (thirty-two (32) millimeters of mercury) or six-tenths (0.6) pounds per square inch) measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F)), or if the solvent is heated to a temperature greater than forty-eight and nine-tenths degrees Celsius (48.9°C) (one hundred twenty degrees Fahrenheit (120°F)):
 - (A) A freeboard that attains a freeboard ratio of seventy-five hundredths (0.75) or greater.
 - (B) A water cover when solvent is used is insoluble in, and heavier than, water.
 - (C) Other systems of demonstrated equivalent control such as a refrigerated chiller or carbon adsorption. Such systems shall be submitted to the U.S. EPA as a SIP revision.
- (b) Pursuant 326 IAC 8-3-5(b), the owner or operator shall ensure that the following operating requirements are met for each of the three (3) parts washers:
- (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.5 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

- (g) Buffing Stations:
 - (1) Buffing operations, including thirty-eight (38) hand buffing stations, installed between 1965 and 2005, equipped with two (2) air washers, identified as 3011/3915, and exhausting at stacks 3011/3915;
 - (2) Six (6) robot buffing stations: identified as 3213, 3215, and 3997; constructed in 2000, 2001, and 2004, respectively; and robot buffing stations: identified as 4081, 4082, and 4083; constructed in May 2005, and each station also connected to air washers, identified as 3011/3915 and exhausting to stacks 3011/3915;
 - (3) Three (3) rotary buffing stations, identified as 433,236, and 4084; installed between 1965 and 2005, and each station connected to air washers, identified as 3011/3915 and exhausting to stacks 3011/3915;
 - (4) One (1) texturing station, identified as 4431 and one (1) L4 rotary station, identified as 709; installed between 1985 and 2006, and each station connected to air washers identified as 3011/3915 and exhausting to stacks 3011/3915;
 - (5) One (1) two wheel buffing station, identified as 3979; installed in 2001, connected to a fabric filter collector that exhausts to the interior of the building;
- (h) Natural Gas Combustion Ovens:
 - (1) One (1) natural gas-fired fluidized bed burn-off oven (2907), rated at 0.99 million British thermal units per hour (MMBtu/hr), with a maximum capacity of 301 pounds per hour of parts using 1.56 pounds per hour of sand, using a cyclone for particulate control, and exhausting at one (1) stack identified as 2918;
 - (2) One (1) natural gas-fired curing oven, identified as 4180 custom coating, constructed in 2005, and exhausting at stack 4160, capacity: 0.8 million British thermal units per hour;
 - (3) One (1) natural gas-fired dry-off oven, identified as 4179, constructed in 2005, capacity: 0.5 million British thermal units, and exhausting at stack 4179;
- (i) One (1) nickel electroplating bath, identified as T22a, equipped with a combination packed bed/chevron blade wet scrubber to minimize nickel emissions from T22a, and exhausting at stack 1038Ni [An affected facility under 40 CFR 63, NESHAP WWWWWW];
- (j) One (1) nickel electroplating bath, identified as T22b, approved for construction in 2009, equipped with a combination packed bed/chevron blade wet scrubber to minimize nickel emissions from T22b, and exhausting at stack 1038Ni [An affected facility under 40 CFR 63, NESHAP WWWWWW];
- (k) One (1) chromate conversion tank, identified as 1038 chromate tank, constructed in April 2010, with maximum capacity of 64 parts per hour, no control. [40 CFR Part 63, Subpart WWWWWW];

(l) Plating Tanks:

- (1) One (1) copper plating tank, consisting of two tanks plumbed together, identified as T23-T24, equipped with a combination packed bed/chevron blade/mesh pad wet scrubber to minimize copper emissions from T23-T24, and exhausting at stack 574;

(m) Striplines:

- (1) One (1) strip line, identified as 255P using sulfuric acid, ammonium bifluoride, equipped with one (1) packed bed wet scrubber, identified as machine number 2986, and exhausting at stack 255P. A used acid tank and an acid/cleaner tank exhaust to another packed bed wet scrubber, identified as machine number 3312, and exhausting at stack the 255R;
- (2) One (1) rack strip line, identified as 1038, consisting of (2) rack strip tanks, four (4) rinse tanks and one (1) hot rinse tank, equipped with a combination packed bed/chevron blade/mesh pad wet scrubber to minimize any stripping related emissions from this line, and exhausting to stack 3230, maximum capacity: 2.05 pounds of alkaline cleaner per hour, 0.09 pound of aqua ammonia per hour, 0.06 pound of Acetic Acid per hour, and 0.49 pound of Nitric Acid per hour;
- (3) One (1) rack strip line, identified as 4560, constructed in 2007, including two (2) rinse tanks and one (1) strip tank containing 6.3% ammonium nitrate, 2.5% ammonium hydroxide, 2.5% ammonium bromide, and 2.5% acetic acid, exhausting externally;

(n) One (1) maintenance tool room which includes:

- (1) One (1) maintenance welding booth, identified as Booth 11-1, connected to a mesh pad filter system, exhausting to the interior of the building, capacity: 0.2 pound of acetylene/oxygen/argon welding wire per hour;
- (2) Multiple hand grinding units;
- (3) Multiple hand drilling units;
- (4) One (1) maintenance glass bead blast cabinets: identified as unit 711, utilizing a collector for particulate control, constructed in 1979;

(o) Glass Bead blast Cabinets;

- (1) One (1) PVD Unit 1065 glass bead blast cabinet utilizing a collector for particulate control, constructed in 1990;
- (2) One (1) additional glass bead blast cabinets, identified as buffing 4118 glass bead blast cabinets utilizing a collector for particulate control;

(p) Two (2) lab hoods;

(q) One (1) inductively coupled plasma (ICP) unit;

(r) One (1) passivation process, identified as line 9069, constructed in June 1998, consisting of:

- (1) One (1) chromate/nitric acid/water solution tank, identified as Tank #1;
- (2) One (1) rinse water tank, identified as Tank #2;
- (3) One (1) hot dionized water tank, identified as Tank #3, equipped with a combination packed bed/chevron blade/mesh pad wet scrubber;
- (s) Various machining equipment where aqueous cutting coolant continuously floods the machining surface in the machining area. There are no criteria pollutants being emitted; 326 IAC2-1.1-3 (e)(10)(B);
- (t) One (1) open tumblers, identified as 4119, constructed in 2005, using plastic media to smooth edges of parts. There are no criteria pollutants emitted;
- (u) One (1) wastewater treatment area, constructed in 1974, the pH is adjusted utilizing sulfuric acid, consisting of:

One bulk waste cleaner tank;
- (v) One (1) dip area, identified as 4406, consisting of a sulfuric acid/water tank equipped with a mist eliminator exhausting externally, one (1) water rinse tank, and one (1) water spray tank, to remove a white ash material contained on racks. There are no criteria pollutants emitted because of dip operation;
- (w) Four (4) R & D hand dipping/manual plating lines, used for research and development as well as production of electroless copper plating. These R&D lines consist of copper, nickel, trivalent chromium, non-cyanide bronze plating tanks, controlled by two (2) horizontal wet pack bed scrubbers, and exhausting through Stacks 4414 and 4467.
- (x) Four (4) salt spray booths, identified as 2043, 4717, 3660, and 3850, constructed in 1985, 2011, 2002, and 2003 respectively, spraying an aqueous salt solution and no criteria pollutants are generated;
- (y) Four (4) physical vacuum deposition (PVD) chambers; identified as 3740, 3787, 3940, and 4063; constructed in 2003, 2003, 2004, and 2004, respectively. PVD process deposits Zirconium material onto various parts. No HAPs are generated;

(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 2-6.1-5(a)(1)]

D.5.1 Particulate [326 IAC 6-3-2]

- (a) Pursuant to 326 IAC 6-3-2 (e) the particulate emissions (PM) from the buffing operations two (2) air washers, 3011 and 3915 shall combined be limited to less than 9.94 pounds per hour when operating at a combined process weight rate of 7,500 pounds per hour.
- (b) Pursuant to 326 IAC 6-3-2 (e) the particulate emissions (PM) from one (1) two-wheel buffing stations, identified as 3979, shall not exceed 0.551 pounds per hour when operating at process weight rate of less than 100 pounds per hour.
- (c) Pursuant to 326 IAC 6-3-2 (e) the particulate emissions (PM) from six (6) robot buffing stations; identified as 3213, 3215, 3997, 4081, 4082, and 4083; shall each not exceed 0.551 pounds per hour each when operating at process weight rate of less than 100

pounds per hour each.

- (d) Pursuant to 326 IAC 6-3-2 (e) the particulate emissions (PM) from the fluidized bed burn off oven (2907) shall be limited to less than 1.15 pounds per hour, when operating at a process weight rate of 303 pounds per hour.

The pounds per hour limitation for (a) through (f) were computed using 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:

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

D.5.2 Preventive Maintenance Plan [326 IAC 1-6-3]

A Preventive Maintenance Plan is required for these facilities and their control devices. Section B – Preventive Maintenance Plan contains the Permittee's obligation with regard to the preventive maintenance Plan required by this condition.

Compliance Determination Requirements [326 IAC 2-1.1-11]

D.5.3 Control

- (a) Pursuant to 2-6.1-5, in order to comply with D.5.1(f), the cyclone for PM control shall be in operation at all times when the fluidized bed burn off oven is in operation.
- (b) Pursuant to 2-6.1-5 the dust collector shall be in operation at all times when enclosed tool room sand blast unit is in operation.
- (c) Pursuant to 2-6.1-5 the cyclone/fabric filters shall be in operation at all times when:
- (1) One (1) maintenance glass bead blast cabinet, identified as unit 711, utilizing a collector for particulate control and one (1) PVD Unit 1065 glass bead blast cabinets are in operation.
 - (2) One (1) dust collector servicing miscellaneous grinding stations, exhausting indoors, and using a combination cyclone and baghouse collection system for particulate control.
 - (3) One (1) additional glass bead blast cabinets: (1) identified as buffing unit 4118 glass bead blast cabinet utilizing a collector,

Compliance Monitoring Requirements [326 IAC 2-5.1-3(e)(2)]

D.5.4 Cyclone Failure Detection

In the event that cyclone failure has been observed:

Failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced. The emissions unit shall be shut down no later than the completion of the processing of the material in the line. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit Section C - Response to Excursions or Exceedances.

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

D.5.5 Record Keeping Requirements

- (a) Section C - General Record Keeping Requirements; of this permit contains the Permittee's obligations with regard to the records required by this condition.

SECTION D.6 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

- (z) One (1) spray paint booth, identified as 4735, approved for construction in 2012, with a maximum capacity to paint 60 racks per hour, containing 70 plastic parts each rack, using a solvent-based spray coating that will be applied with one electrostatic air atomized spray gun inside a spray booth, using panel filters for particulate control, and exhausting through stack Spray Booth.

(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 2-6.1-5(1)]

D.6.1 Particulate Emission Limitations [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2(d), the Permittee shall control the spray paint booth operation, identified as 4735, by using a dry particulate filter, waterwash, or an equivalent control device, subject to the following:

- (a) The Permittee shall operate the control device in accordance with manufacturer's specifications.
- (b) If overspray is visibly detected at the exhaust or accumulates on the ground, the Permittee shall inspect the control device and do either of the following no later than four (4) hours after such observation:
- (1) Repair control device so that no overspray is visibly detectable at the exhaust or accumulates on the ground.
 - (2) Operate equipment so that no overspray is visibly detectable at the exhaust or accumulates on the ground.

D.6.2 Preventive Maintenance Plan [326 IAC 1-6-3]

A Preventive Maintenance Plan is required for these facilities and their control devices. Section B – Preventive Maintenance Plan contains the Permittee's obligation with regard to the preventive maintenance Plan required by this condition.

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

D.6.3 Recordkeeping Requirements

In order to document the compliance status with Condition D.6.1, the Permittee shall comply with the following:

- (a) If overspray from the Spray Paint Booth, identified as 4735, is visibly detected, the Permittee shall maintain a record of the action taken as a result of the inspection, any repairs of the control device, or change in operations, so that overspray is not visibly detected at the exhaust or accumulates on the ground. These records must be maintained for five (5) years.
- (b) Section C - General Record Keeping Requirements, of this permit, contains the Permittee's obligation with regard to the record keeping required by this permit.

SECTION E.1

OPERATION CONDITIONS

Emissions Unit Description:

- (c) Natural Gas Combustion Boilers:
- (2) One (1) natural gas-fired boiler, identified as 2256 (north), constructed in 1994, exhausting at stack 2256, capacity: 14.70 million British thermal units per hour
- [40 CFR 60, Subpart Dc];

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

E.1.1 General Provisions Relating to NSPS Dc [326 IAC 12-1-1]

The provisions of 40 CFR 60, Subpart Dc - Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units, which are incorporated as 326 IAC 12-1-1, apply to the facility described in this section except when otherwise specified in 40 CFR 60, Subpart Dc.

E.1.2 Area Source Standards for Performance for Small Industrial-Commercial-Institutional Steam Generating Units [40 CFR 60, Subpart Dc]

The Permittee shall comply with the following provisions of 40 CFR 60, Subpart Dc as specified as below (Attachment A of this permit):

1. 40 CFR 60.40c (a) (b) (d) (e)
2. 40 CFR 60.41c
3. 40 CFR 60.48c (a) (h) (i) (j)

SECTION E.2

OPERATION CONDITIONS

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

- (b) One (1) Multi-Finish electroplating line, identified as 3700, with a capacity of 1,800 pounds of metal and plastic parts per hour, consisting of the following:
 - (1) Three (3) nickel plating tanks, identified as stations 39 through 42, 49 through 52, and 53 through 56, equipped with the nickel/cleaner scrubber, and exhausting through the Multi-Finish Line Nickel/Cleaner Scrubber Stack [40 CFR Part 63, Subpart WWWWWW];
 - (2) One (1) copper sulfate plating tank, identified as stations 32 through 35, equipped with the nickel/cleaner scrubber, and exhausting through the Multi-Finish Line Nickel/Cleaner Scrubber Stack [40 CFR Part 63, Subpart WWWWWW];
- (e) One (1) chromate conversion tank, identified as powder coating chromate tank, constructed in July 2009, with maximum capacity of 888 parts per hour, no control., [40 CFR 63, Subpart WWWWWW];
- (i) One (1) nickel electroplating bath, identified as T22a, equipped with a combination packed bed/chevron blade wet scrubber to minimize nickel emissions from T22a, and exhausting at stack 1038Ni [An affected facility under 40 CFR 63, NESHAP WWWWWW];
- (j) One (1) nickel electroplating bath, identified as T22b, approved for construction in 2009, equipped with a combination packed bed/chevron blade wet scrubber to minimize nickel emissions from T22b, and exhausting at stack 1038Ni [An affected facility under 40 CFR 63, NESHAP WWWWWW];
- (k) One (1) chromate conversion tank; identified as 1038 chromate tank, constructed in April 2010, with maximum capacity of 64 parts per hour, no control. [40 CFR 63, Subpart WWWWWW].

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

E.2.1 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.2.2 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 below (Attachment B of this permit):

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**

**MINOR SOURCE OPERATING PERMIT
ANNUAL NOTIFICATION**

This form should be used to comply with the notification requirements under 326 IAC 2-6.1-5(a)(5).

Company Name:	Delta Faucet Company
Address:	1425 West Main Street
City:	Greensburg, Indiana 47240
Phone #:	812-663-4433
MSOP #:	M031-20848-00007

I hereby certify that Delta Faucet Company is :

still in operation.

no longer in operation.

I hereby certify that Delta Faucet Company is :

in compliance with the requirements of MSOP M031-20848-00007.

not in compliance with the requirements of MSOP M031-20848-00007.

Authorized Individual (typed):
Title:
Signature:
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:

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

**CHROMIUM ELECTROPLATING NESHAP
ONGOING COMPLIANCE STATUS REPORT**

Source Name: Delta Faucet Company
Source Address: 1425 West Main Street, Greensburg, IN 47240
Mailing Address: 1425 West Main Street, Greensburg, IN 47240
MSOP No.: 031-20848-00007

Tank ID #: _____
Type of process: *[Hard, Decorative, Anodizing]*
Monitoring Parameter: *[e.g., Surface tension of the electroplating bath]*
Parameter Value: *[e.g., 45 dynes per centimeter]*
Limits: Total chromium concentration may not exceed _____ mg/dscm

This form is to be used to report compliance for the Chromium Electroplating NESHAP only.
The frequency for completing this report may be altered by the IDEM, OAQ, Compliance and enforcement branch.

Companies classified as a major source: submit this report no later than 30 days after the end of the reporting period.
Companies classified as an area source: complete this report no later than 30 days after the end of the reporting period,
and retain on site unless otherwise notified.

This form consists of 2 pages

Page 1 of 2

BEGINNING AND ENDING DATES OF THE REPORTING PERIOD:
TOTAL OPERATING TIME OF THE TANK DURING THE REPORTING PERIOD:

MAJOR AND AREA SOURCES: CHECK ONE
9 NO DEVIATIONS OF THE MONITORING PARAMETER ASSOCIATED WITH THIS TANK FROM THE COMPLIANT VALUE OR RANGE OF VALUES OCCURRED DURING THIS REPORTING PERIOD.
9 THE MONITORING PARAMETER DEVIATED FROM THE COMPLIANT VALUE OR RANGE OF VALUES DURING THIS REPORTING PERIOD (THUS INDICATING THE EMISSION LIMITATION MAY HAVE BEEN EXCEEDED, WHICH COULD RESULT IN MORE FREQUENT REPORTING).

AREA (I.E., NON-MAJOR) SOURCES OF HAP ONLY: IF DEVIATIONS OCCURRED, LIST THE AMOUNT OF TANK OPERATING TIME EACH MONTH THAT MONITORING RECORDS SHOW THE MONITORING PARAMETER DEVIATED FROM THE COMPLIANT VALUE OR RANGE OF VALUES.			
JAN	APR	JUL	OCT
FEB	MAY	AUG	NOV
MAR	JUN	SEP	DEC

HARD CHROME TANKS / MAXIMUM RECTIFIER CAPACITY LIMITED IN ACCORDANCE WITH 40 CFR 63.342(c)(2) ONLY: LIST THE ACTUAL AMPERE-HOURS CONSUMED (BASED ON AN AMP-HR METER) BY THE INDIVIDUAL TANK.			
JAN	APR	JUL	OCT
FEB	MAY	AUG	NOV
MAR	JUN	SEP	DEC

CHROMIUM ELECTROPLATING NESHAP ONGOING COMPLIANCE STATUS REPORT

ATTACH A SEPARATE PAGE IF NEEDED

Page 2 of 2

IF THE OPERATION AND MAINTENANCE PLAN REQUIRED BY 40 CFR 63.342 (f)(3) WAS NOT FOLLOWED, PROVIDE AN EXPLANATION OF THE REASONS FOR NOT FOLLOWING THE PLAN AND DESCRIBE THE ACTIONS TAKEN FOR THAT EVENT:

DESCRIBE ANY CHANGES IN TANKS, RECTIFIERS, CONTROL DEVICES, MONITORING, ETC. SINCE THE LAST STATUS REPORT:

ADDITIONAL COMMENTS:

ALL SOURCES: CHECK ONE

- 9 I CERTIFY THAT THE WORK PRACTICE STANDARDS IN 40 CFR 63.342(f) WERE FOLLOWED IN ACCORDANCE WITH THE OPERATION AND MAINTENANCE PLAN ON FILE; AND, THAT THE INFORMATION CONTAINED IN THIS REPORT IS ACCURATE AND TRUE TO THE BEST OF MY KNOWLEDGE.
- 9 THE WORK PRACTICE STANDARDS IN 40 CFR 63.342(f) WERE NOT FOLLOWED IN ACCORDANCE WITH THE OPERATION AND MAINTENANCE PLAN ON FILE, AS EXPLAINED ABOVE AND/OR ON ATTACHED.

Submitted by:

Title/Position:

Signature:

Date:

Phone:

Attach a signed certification to complete this report.

MALFUNCTION REPORT

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF AIR QUALITY FAX NUMBER - 317 233-6865

**This form should only be used to report malfunctions applicable to Rule 326 IAC 1-6
and to qualify for the exemption under 326 IAC 1-6-4.**

THIS FACILITY MEETS THE APPLICABILITY REQUIREMENTS BECAUSE IT HAS POTENTIAL TO EMIT 25 TONS/YEAR PARTICULATE MATTER ?____, 25 TONS/YEAR SULFUR DIOXIDE ?____, 25 TONS/YEAR NITROGEN OXIDES?____, 25 TONS/YEAR VOC ?____, 25 TONS/YEAR HYDROGEN SULFIDE ?____, 25 TONS/YEAR TOTAL REDUCED SULFUR ?____, 25 TONS/YEAR REDUCED SULFUR COMPOUNDS ?____, 25 TONS/YEAR FLUORIDES ?____, 100 TONS/YEAR CARBON MONOXIDE ?____, 10 TONS/YEAR ANY SINGLE HAZARDOUS AIR POLLUTANT ?____, 25 TONS/YEAR ANY COMBINATION HAZARDOUS AIR POLLUTANT ?____, 1 TON/YEAR LEAD OR LEAD COMPOUNDS MEASURED AS ELEMENTAL LEAD ?____, OR IS A SOURCE LISTED UNDER 326 IAC 2-5.1-3(2) ?____. EMISSIONS FROM MALFUNCTIONING CONTROL EQUIPMENT OR PROCESS EQUIPMENT CAUSED EMISSIONS IN EXCESS OF APPLICABLE LIMITATION _____.

THIS MALFUNCTION RESULTED IN A VIOLATION OF: 326 IAC _____ OR, PERMIT CONDITION # _____ AND/OR PERMIT LIMIT OF _____

THIS INCIDENT MEETS THE DEFINITION OF "MALFUNCTION" AS LISTED ON REVERSE SIDE ? Y N

THIS MALFUNCTION IS OR WILL BE LONGER THAN THE ONE (1) HOUR REPORTING REQUIREMENT ? Y N

COMPANY: _____ PHONE NO. () _____
LOCATION: (CITY AND COUNTY) _____
PERMIT NO. _____ AFS PLANT ID: _____ AFS POINT ID: _____ INSP: _____
CONTROL/PROCESS DEVICE WHICH MALFUNCTIONED AND REASON: _____

DATE/TIME MALFUNCTION STARTED: ____/____/20____ _____ AM / PM

ESTIMATED HOURS OF OPERATION WITH MALFUNCTION CONDITION: _____

DATE/TIME CONTROL EQUIPMENT BACK-IN SERVICE ____/____/20____ _____ AM/PM

TYPE OF POLLUTANTS EMITTED: TSP, PM-10, SO2, VOC, OTHER: _____

ESTIMATED AMOUNT OF POLLUTANT EMITTED DURING MALFUNCTION: _____

MEASURES TAKEN TO MINIMIZE EMISSIONS: _____

REASONS WHY FACILITY CANNOT BE SHUTDOWN DURING REPAIRS:

CONTINUED OPERATION REQUIRED TO PROVIDE ESSENTIAL* SERVICES: _____

CONTINUED OPERATION NECESSARY TO PREVENT INJURY TO PERSONS: _____

CONTINUED OPERATION NECESSARY TO PREVENT SEVERE DAMAGE TO EQUIPMENT: _____

INTERIM CONTROL MEASURES: (IF APPLICABLE) _____

MALFUNCTION REPORTED BY: _____ TITLE: _____
(SIGNATURE IF FAXED)

MALFUNCTION RECORDED BY: _____ DATE: _____ TIME: _____

*SEE PAGE 2

Please note - This form should only be used to report malfunctions applicable to Rule 326 IAC 1-6 and to qualify for the exemption under 326 IAC 1-6-4.

326 IAC 1-6-1 Applicability of rule

Sec. 1. This rule applies to the owner or operator of any facility required to obtain a permit under 326 IAC 2-5.1 or 326 IAC 2-6.1.

326 IAC 1-2-39 "Malfunction" definition

Sec. 39. Any sudden, unavoidable failure of any air pollution control equipment, process, or combustion or process equipment to operate in a normal and usual manner.

***Essential services** are interpreted to mean those operations, such as, the providing of electricity by power plants. Continued operation solely for the economic benefit of the owner or operator shall not be sufficient reason why a facility cannot be shutdown during a control equipment shutdown.

If this item is checked on the front, please explain rationale:

**Indiana Department of Environmental Management
Office of Air Quality**

Technical Support Document (TSD) for a Minor Permit Revision to a Minor
Source Operating Permit (MSOP)

Source Description and Location

Source Name:	Delta Faucet Company
Source Location:	1425 West Main Street, Greensburg, Indiana 47240
County:	Decatur
SIC Code:	3432 (Plumbing Fixture Fittings and Trims)
Operation Permit No.:	M031-20848-00007
Operation Permit Issuance Date:	August 26, 2008
Minor Permit Revision No.:	031-31652-00007
Permit Reviewer:	Jack Harmon

On March 22, 2012, the Office of Air Quality (OAQ) received an application from Delta Faucet Company related to a modification to an existing stationary chrome faucet electroplating source. Additional information was received on April 19, 2012.

Existing Approvals

The source was issued MSOP Renewal No. 031-20848-00007 on August 26, 2008. The source has since received the following approvals:

- (a) Notice-Only Change No. 031-28752-00007, issued on January 20, 2010;
- (b) Notice-Only Change No. 031-29773-00007, issued on December 1, 2010; and
- (c) Notice-Only Change No. 031-31320-00007, issued on February 8, 2012

County Attainment Status

The source is located in Decatur 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 (NO_x) are regulated under the Clean Air Act (CAA) for the purposes of attaining and maintaining the National Ambient Air Quality Standards (NAAQS) for ozone. Therefore, VOC and NO_x emissions are considered when evaluating the rule applicability relating to ozone. Decatur County has been designated as attainment or unclassifiable for ozone. Therefore, VOC and NO_x emissions were reviewed

Process/ Emission Unit	Potential To Emit of the Entire Source Prior to the Proposed Revision (tons/year)									
	PM	PM10*	PM2.5**	SO ₂	NO _x	VOC	CO	Total HAPs	Worst Single HAP	
*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". ** PM2.5 presumed to be equal to PM10. ***The 1038 Chromate Tank is an acid dip bath, thus there are no PTE, no VOCs, and no HAPs These emissions are based on the Potential to Emit of the Entire Source after Issuance of MSOP NOC No. 031-31320-00007, issued February 7, 2012.										

Description of Proposed Revision

The Office of Air Quality (OAQ) has reviewed an application, submitted by Delta Faucet Company on March 22, 2012, relating to the modification of its MSOP to add one (1) spray paint booth, identified as 4735, which will utilize one spray nozzle to apply paint containing VOC to plastic parts.

The following is a list of the new emission unit and pollution control device:

- (a) One (1) spray paint booth, identified as 4735, approved for construction in 2012, with a maximum capacity to paint 60 racks per hour, containing 70 plastic parts each rack, using a solvent-based spray coating that will be applied with one electrostatic air atomized spray gun inside a spray booth, using panel filters for particulate control, and exhausting through stack Spray Booth.

Enforcement Issues

There are no pending enforcement actions related to this revision.

Emission Calculations

See Appendix A of this TSD for detailed emission calculations.

Permit Level Determination – MSOP Revision

The following table is used to determine the appropriate permit level under 326 IAC 2-6.1-6. This table reflects the PTE before controls of the proposed revision. Control equipment is not considered federally enforceable until it has been required in a federally enforceable permit.

Process/ Emission Unit	PTE of Proposed Revision (tons/year)									
	PM	PM10	PM2.5	SO ₂	NO _x	VOC	CO	GHGs as CO ₂ e	Total HAPs	Worst Single HAP
Spray Paint Booth 4735*	1.42	1.42	1.42	0.00	0.00	5.19	0.00	0.00	0.700	0.700 (MiBK)
Total PTE of Proposed Revision	1.42	1.42	1.42	0.00	0.00	5.19	0.00	0.00	0.700	0.700 (MiBK)

* PTE was calculated based on the maximum racks per hour and not based on the number of parts per rack. PTE is the worst case scenario for all coatings used on this paint line.

This MSOP is being revised through a MSOP Minor Permit Revision pursuant to 326 IAC 2-6.1-6(g)(4)(B), because the revision involves the construction of an emission unit with potential to emit (PTE) VOC within the ranges specified in 326 IAC 2-6.1-6(g)(4)(B).

PTE of the Entire Source After Issuance of the MSOP Revision

The table below summarizes the potential to emit of the entire source, with updated emissions shown as

bold values and previous emissions shown as ~~strikethrough~~ values.

Process/ Emission Unit	Potential To Emit of the Entire Source After the Revision (tons/year)									
	PM	PM10 *	PM2.5* *	SO ₂	NO _x	VOC	CO	GHGs as CO ₂ e****	Total HAPs	Worst Single HAP
Spray Paint Booth 4735	1.42	1.42	1.42	0.00	0.00	5.19	0.00	0.00	7.0E-1	7.0E-01 (MiBK)
Powder Spray Booth (1)***	0.91	0.91	0.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Powder Coating Chromate Tank	0.05	0.05	0.05	0.00	0.00	0.00	0.00	0.00	2.3E-02	2.3E-02 (Chromium)
Natural Gas Boiler/ovens	0.21	0.84	0.84	0.07	11.04	0.61	9.27	13325.7	2.08E-1	1.99E-01 (Hexane)
Plater ID 3700	0.83	0.83	0.83	0.00	0.00	0.46	0.00	0.00	3.68E-1	1.95E-01 (Nickel)
Plater ID 574	0.54	0.54	0.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Plater ID 255	5.39	5.39	5.39	0.00	0.00	0.00	0.00	0.00	1.24E-1	1.24E-01 (Chromium)
Electroless Plating & R&D	0.22	0.22	0.22	0.004	0.00	0.01	0.00	0.00	5.39E-1	5.39E-01 (Formaldehyde)
Buffing Stations Air Washers	27.57	27.57	27.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Parts Washers	0.00	0.00	0.00	0.00	0.00	4.46	0.00	0.00	0.00	0.00
Welding	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total PTE of Entire Source*****	37.15 53.44	37.78 53.74	37.78 53.74	0.07	11.04	10.72 5.53	9.27	13,325.7	1.94 4.24	7.0E-01 (MiBK) 3.4E-01 (Nickel)
Title V Major Source Thresholds	NA	100	100	100	100	100	100	100,000	25	10
PSD Major Source Thresholds	250	250	250	250	250	250	250	100,000	NA	NA
<p>*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".</p> <p>** PM2.5 presumed to be equal to PM10.</p> <p>***The 1038 Chromate Tank is an acid dip bath, thus there are no PTE, no VOCs, and no HAPs.</p> <p>****The 100,000 CO₂e threshold represents the Title V and PSD subject to regulation thresholds for GHGs in order to determine whether a source's emissions are a regulated NSR pollutant under Title V and PSD.</p> <p>***** The CO₂e emissions were included in the emissions calculations in Appendix A of MSOP NOC 031-31320-00007, issued on February 8, 2012, but were not shown on the Summary Sheet. Therefore, they are shown in this revision, but are not considered as a change in this revision, since the evaluation was already done.</p> <p>***** The control device for the Powder Spray Booth (1) was determined to be integral to the process in the MSOP Renewal No. 031-20848-00007, issued August 26, 2008. However, in MSOP NOC No. 031-31320-00007, issued February 8, 2012, the totals for Total PTE of the Entire Source for PM, PM10, and PM2.5 were incorrectly added. The Total PTE of the Entire Source for PM, PM10, and PM2.5 shown above are the correct emissions and are shown as a part of this revision.</p>										

The table below summarizes the potential to emit of the entire source after issuance of this revision, reflecting all limits, of the emission units. Any control equipment is considered federally enforceable only after issuance of this MSOP permit revision, and only to the extent that the effect of the control equipment is made practically enforceable in the permit. (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 After the Revision (tons/year)									
	PM	PM10*	PM2.5**	SO ₂	NO _x	VOC	CO	GHGs as CO ₂ e****	Total HAPs	Worst Single HAP
Spray Paint Booth 4735	1.42	1.42	1.42	0.00	0.00	5.19	0.00	0.00	7.0E-1	7.0E-01 (MiBK)
Powder Spray Booth (1)***	0.91	0.91	0.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Powder Coating Chromate Tank	0.05	0.05	0.05	0.00	0.00	0.00	0.00	0.00	2.3E-02	2.3E-02 (Chromium)
Natural Gas Boiler/ovens	0.21	0.84	0.84	0.07	11.04	0.61	9.27	13325.7	2.08E-1	1.99E-01 (Hexane)
Plater ID 3700	0.83	0.83	0.83	0.00	0.00	0.46	0.00	0.00	3.68E-1	1.95E-01 (Nickel)
Plater ID 574	0.54	0.54	0.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Plater ID 255	5.39	5.39	5.39	0.00	0.00	0.00	0.00	0.00	1.24E-1	1.24E-01 (Chromium)
Electroless Plating & R&D	0.22	0.22	0.22	0.004	0.00	0.01	0.00	0.00	5.39E-1	5.39E-01 (Formaldehyde)
Buffing Stations Air Washers	27.57	27.57	27.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Parts Washers	0.00	0.00	0.00	0.00	0.00	4.46	0.00	0.00	0.00	0.00
Welding	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total PTE of Entire Source*****	37.15	37.78	37.78	0.07	11.04	10.72	9.27	13,325.7	1.94	7.0E-01 (MiBK)
Title V Major Source Thresholds	NA	100	100	100	100	100	100	100,000	25	10
PSD Major Source Thresholds	250	250	250	250	250	250	250	100,000	NA	NA

*Under the Part 70 Permit program (40 CFR 70), 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".

** PM2.5 presumed to be equal to PM10.

***The 1038 Chromate Tank is an acid dip bath, thus there are no VOCs, and no HAPs.

****The 100,000 CO₂e threshold represents the Title V and PSD subject to regulation thresholds for GHGs in order to determine whether a source's emissions are a regulated NSR pollutant under Title V and PSD.

**** The CO₂e emissions were included in the emissions calculations in Appendix A of MSOP NOC 031-31320-00007, issued on February 8, 2012, but were not shown on the Summary Sheet. Therefore, they are shown in this revision, but are not considered as a change in this revision, since the evaluation was already done.

***** The control device for the Powder Spray Booth (1) was determined to be integral to the process in the MSOP Renewal No. 031-20848-00007, issued August 26, 2008. However, in MSOP NOC No. 031-31320-00007, issued February 8, 2012, the totals for Total PTE of the Entire Source for PM, PM10, and PM2.5 were incorrectly added. The Total PTE of the Entire Source for PM, PM10, and PM2.5 shown above are the correct emissions and are shown as a part of this revision.

MSOP Status

- (a) This revision to an existing Title V minor stationary source will not change the minor status, because the uncontrolled/unlimited potential to emit criteria pollutants from the entire source will still be limited to less than the Title V major source threshold levels. Therefore, the source will still be subject to the provisions of 326 IAC 2-6.1 (MSOP).
- (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.

- (c) This revision will not change the minor status of the source, because the uncontrolled/unlimited potential to emit greenhouse gases (GHGs) will still be less than the Title V subject to regulation threshold of one hundred thousand (100,000) tons of CO₂ equivalent emissions (CO₂e) per year. Therefore, the source is not subject to the provisions of 326 IAC 2-7.

Federal Rule Applicability Determination

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 (NESHAPs) for Halogenated Solvent Cleaning, 40 CFR 63, Subpart T, are not included for this proposed revision, because this source does not use halogenated solvents in its operation. Therefore, the requirements of 40 CFR 63, Subpart T do not apply.
- (c) The requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAPs) for Surface Coating of Plastic Parts and Products, 40 CFR 63, Subpart PPPP, are not included for this proposed revision, because this source is not a major source of HAPs. Therefore, the requirements of 40 CFR 63, Subpart PPPP do not apply.
- (d) The requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAPs) for Paint Stripping and Miscellaneous Surface Coating Operations at Area Sources, 40 CFR 63, Subpart HHHHHH, are not included for this proposed revision, because this source does not perform paint stripping activities, does not perform auto body refinishing, and does not include target HAPs of chromium, cadmium, lead, nickel, or manganese in its spray operations. Therefore, the requirements of 40 CFR 63, Subpart HHHHHH do not apply.
- (e) 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)

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

State Rule Applicability Determination

The following state rules are applicable to the proposed revision:

- (a) 326 IAC 2-6.1 (Minor Source Operating Permits (MSOP))
MSOP applicability is discussed under the Permit Level Determination – MSOP section above.
- (b) 326 IAC 2-2 (Prevention of Significant Deterioration(PSD))
This modification to an existing PSD minor stationary source will not change the PSD minor status, because the potential to emit of all attainment regulated pollutants from the entire source will continue to be less than the PSD major source threshold levels. Therefore, pursuant to 326

IAC 2-2, the PSD requirements do not apply. See PTE of the Entire Source After Issuance of the MSOP Revision Section above.

- (c) 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 emission unit 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.
- (d) 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.
- (e) 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.
- (f) 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.
- (g) 326 IAC 6-5 (Fugitive Particulate Matter Emission Limitations)
Due to this revision, the source is not subject to the requirements of 326 IAC 6-5, because the fugitive dust sources do not have potential fugitive particulate emissions greater than 25 tons per year.

Spray Paint Booth 4735

- (j) 326 IAC 6-3-2(d) (Particulate Emission Limitations for Manufacturing Processes)
The spray paint booth, identified as 4735, is subject to the requirements of 326 IAC 6-3-2(d) because it is a surface coating operation that has the potential to emit particulate matter. Pursuant to 326 IAC 6-3-2(d), the spray paint booth operation shall be controlled by a dry particulate filter, waterwash, or an equivalent control device, subject to the following:
- (1) The source shall operate the control device in accordance with manufacturer's specifications.
 - (2) If overspray is visibly detected at the exhaust or accumulates on the ground, the source shall inspect the control device and do either of the following no later than four (4) hours after such observation:
 - (A) Repair control device so that no overspray is visibly detectable at the exhaust or accumulates on the ground.

- (B) Operate equipment so that no overspray is visibly detectable at the exhaust or accumulates on the ground.

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

- (k) 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 new spray paint booth 4735 is less than twenty-five (25) tons per year.
- (l) There are no other 326 IAC 8 Rules that are applicable to the spray paint booth, identified as 4735.
- (m) 326 IAC 12 (New Source Performance Standards)
See Federal Rule Applicability Section of this TSD.
- (n) 326 IAC 20 (Hazardous Air Pollutants)
See Federal Rule Applicability Section of this TSD.

Compliance Determination, Monitoring and Testing Requirements

- (a) There are no compliance determination and monitoring requirements applicable to this proposed spray paint booth, identified as 4735.
- (b) There are no testing requirements applicable to this proposed spray paint booth, identified as 4735.

The existing compliance requirements will not change as a result of this revision. The source shall continue to comply with the applicable requirements and permit conditions as contained in MSOP No: 031-31320-00007, issued on February 8, 2012.

Proposed Changes

- (a) The following changes listed below are due to the proposed revision. Deleted language appears as ~~strikethrough~~ 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:

- (z) **One (1) spray paint booth, identified as 4735, approved for construction in 2012, with a maximum capacity to paint 60 racks per hour, containing 70 plastic parts each rack, using a solvent-based spray coating that will be applied with one electrostatic air atomized spray gun inside a spray booth, using panel filters for particulate control, and exhausting to the indoors.**

SECTION D.6 EMISSIONS UNIT OPERATION CONDITIONS



Emissions Unit Description:

- (z) One (1) spray paint booth, identified as 4735, approved for construction in 2012, with a maximum capacity to paint 60 racks per hour, containing 70 plastic parts each rack, using a solvent-based spray coating that will be applied with one electrostatic air atomized spray gun inside a spray booth, using panel filters for particulate control, and exhausting to the indoors.

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

Emission Limitations and Standards [326 IAC 2-6.1-5(1)]

D.6.1 Particulate Emission Limitations [326 IAC 6-3-2]

326 IAC 6-3-2(d) (Particulate Emission Limitations for Manufacturing Processes)

Pursuant to 326 IAC 6-3-2(d), the Permittee shall control the spray paint booth operation, identified as 4735, by using a dry particulate filter, waterwash, or an equivalent control device, subject to the following:

- (a) The Permittee shall operate the control device in accordance with manufacturer's specifications.
- (b) If overspray is visibly detected at the exhaust or accumulates on the ground, the Permittee shall inspect the control device and do either of the following no later than four (4) hours after such observation:
- (1) Repair control device so that no overspray is visibly detectable at the exhaust or accumulates on the ground.
- (2) Operate equipment so that no overspray is visibly detectable at the exhaust or accumulates on the ground.

D.6.2 Preventive Maintenance Plan [326 IAC 1-6-3]

A Preventive Maintenance Plan is required for these facilities and their control devices. Section B – Preventive Maintenance Plan contains the Permittee's obligation with regard to the preventive maintenance Plan required by this condition.

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

D.6.3 Recordkeeping Requirements

In order to document the compliance status with Condition D.6.1, the Permittee shall comply with the following:

- (a) If overspray from the Spray Paint Booth, identified as 4735, is visibly detected, the Permittee shall maintain a record of the action taken as a result of the inspection, any repairs of the control device, or change in operations, so that overspray is not visibly detected at the exhaust or accumulates on the ground. These records must be maintained for five (5) years.
- (b) Section C - General Record Keeping Requirements, of this permit, contains the Permittee's obligation with regard to the record keeping required by this permit.

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 March 22, 2012. Additional information was received on April 19, 2012.

The construction and operation of this proposed revision shall be subject to the conditions of the attached proposed MSOP Minor Revision No. 031-31652-00007. The staff recommends to the Commissioner that this MSOP Minor Revision be approved.

IDEM Contact

- (a) Questions regarding this proposed permit can be directed to Jack Harmon 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) 317-233-4228 or toll free at 1-800-451-6027 extension 3-4228.
- (b) A copy of the findings is available on the Internet at: <http://www.in.gov/ai/appfiles/idem-caats/>
- (c) For additional information about air permits and how the public and interested parties can participate, refer to the IDEM's Guide for Citizen Participation and Permit Guide on the Internet at: www.in.gov/idem

Revised Appendix A: Emission Calculations
Emission Summary

Company Name: Delta Faucet Company
Address City IN Zip: 1425 West Main Street, Greensburg, Indiana 47240
MSOP Permit NO.: 031-31652-00007
Reviewer: Jack Harmon

Uncontrolled Potential Emissions of the Entire Source (tons/year)**													
Category	Pollutant	Spray Booth 4735	Powder Spray Booth (1)**	Powder Coating Chromate tank	Natural gas boiler/ovens	Emission Generating Activities							TOTAL
						Plater ID	Plater ID	Plater ID	Formaldehyde	Buffing	Parts Washers	Welding	
						3700	574	255	Electroless Plating and R&D	Stations Air Washers			
Criteria Pollutants	PM	1.42	0.91	0.05	0.21	0.83	0.54	5.39	0.22	27.57		0.01	37.15
	PM10	1.42	0.91	0.05	0.84	0.83	0.54	5.39	0.22	27.57		0.01	37.78
	SO2	0.00			0.07				0.004				0.07
	NOx	0.00			11.04				0.00				11.04
	VOC	5.19			0.61	0.46			0.01		4.46		10.72
	CO	0.00			9.27								9.27
	CO2e	0.00			13,325.73								13325.73
Hazardous Air Pollutants	DCB	-			1.32E-04								1.32E-04
	Cadmium	-			1.21E-04								1.21E-04
	Toluene	-			3.75E-04								3.75E-04
	Benzene	-			2.32E-04								2.32E-04
	Formaldehyde	-			8.28E-03				5.39E-01				5.47E-01
	Lead	-			5.52E-05	1.81E-05							7.33E-05
	Nickel	-			2.32E-04	1.95E-01							1.95E-01
	Chromium	-		2.3E-02	1.55E-04	1.73E-01		1.24E-01					3.20E-01
	Hexane	-			1.99E-01								1.99E-01
	MiBK	7.00E-01											7.00E-01
Totals	7.00E-01				2.08E-01	3.68E-01		1.24E-01	5.39E-01				1.94E+00

* The 1038 Chromate Tank is an acid dip bath, thus there are no PTE, no VOCs, and no HAPs

** The control device for the Powder Spray Booth (1) was determined to be integral to the process in MSOP Renewal No. 031-20848-00007, issued August 26, 2008; therefore the PM, PM10, and PM2.5 PTE is shown with the consideration of the control device.

**Appendix A: Emissions Calculations
VOC, Particulate, and HAPs
From Surface Coating Operations**

Company Name: Delta Faucet Company
Address City IN Zip: 1425 West Main Street, Greensburg, Indiana 47240
Permit Number: 031-31652-00007
Plt ID: 031-00007
Reviewer: Jack Harmon

Spray Coating Booth 4735, constructed 2012

Material	Density (Lb/Gal)	Weight % Volatile (H2O & Organics)	Weight % Water	Weight % Organics	Volume % Water	Volume % Non-Volatiles (solids)	Gal of Mat. (gal/unit)	Maximum (unit/hour)	Pounds VOC per gallon of coating less water	Pounds VOC per gallon of coating	Potential VOC pounds per hour	Potential VOC pounds per day	Potential VOC tons per year	Particulate Potential (ton/yr)	lb VOC/gal solids	Transfer Efficiency	MIBK (lb/gal)	Worst HAP MIBK (ton/yr)	Total HAPs (ton/yr)
CC939*	7.94	53.20%	5.1%	48.10%	0.0%	50.40%	0.00467	60.000	3.82	3.82	1.07	25.68	5.19	1.37	7.58	70%	0.57	7.00E-01	7.00E-01
CC947*	8.76	55.88%	13.7%	42.17%	0.0%	48.10%	0.00467	60.000	3.69	3.69	1.04	24.84	4.93	1.42	7.68	70%	0.00021	2.58E-04	2.58E-04

* As Applied. Supplied by source.

Worst case scenario for all coatings, as applied													5.19	1.42	7.00E-01	7.00E-01
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METHODOLOGY

Maximum throughput is 60 racks per hour, and each rack contains 70 parts at an average weight of 0.14 lbs each part. Total gallons of material used is for the entire rack of 70 parts. Process Weight Rate for 326 IAC 6-3-2 is (60 x 70 x 0.14)/2000 = 0.294 tons/hr.

Pounds of VOC per Gallon Coating less Water = (Density (lb/gal) * Weight % Organics) / (1-Volume % water)

Pounds of VOC per Gallon Coating = (Density (lb/gal) * Weight % Organics)

Potential VOC Pounds per Hour = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr)

Potential VOC Pounds per Day = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr) * (24 hr/day)

Potential VOC Tons per Year = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr) * (8760 hr/yr) * (1 ton/2000 lbs)

Particulate Potential Tons per Year = (units/hour) * (gal/unit) * (lbs/gal) * (1 - Weight % Volatiles) * (1-Transfer efficiency) * (8760 hrs/yr) * (1 ton/2000 lbs)

Pounds VOC per Gallon of Solids = (Density (lbs/gal) * Weight % organics) / (Volume % solids)

Total = Worst Coating + Sum of all solvents used

PTE MIBK (tons/yr) = lb MIBK / gal x Gal material x Maximum throughput x 8760 hrs/yr / 2000 lb/ton

This source uses approximately 0.125 gallons per day of acetone for clean-up purposes, or less than 45 gallons per year maximum.

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**Revised Appendix A: Emission Calculations
Powder Spray Booth**

Company Name: Delta Faucet Company
Address City IN Zip: 1425 West Main Street, Greensburg, Indiana 47240
MSOP Permit NO.: 031-31652-00007
Reviewer: Jack Harmon

Emission Unit	Maximum Powder Use (lbs/hr)	Maximum Powder Use (tons/yr)	Transfer Efficiency (%)	Cartridge filter Efficiency	PTE before cartridge filters PM/PM ₁₀ (lbs/hr)	PTE before cartridge filter PM/PM ₁₀ (tons/yr)	PTE after Cartridge filter PM/PM ₁₀ (lbs/hr)	PTE after Cartridge filter PM/PM ₁₀ (tons/yr)	PM/PM ₁₀ Allowable PM lbs/hr
Powder Spray Booth-4160	13.923	60.983	70.0%	95.0%	4.18	18.3	0.209	0.91	7.78
Total					4.18	18.3	0.209	0.91	

The control device for the Powder Spray Booth (1) was determined to be integral to the process in MSOP Renewal No. 031-20848-00007, issued August 26, 2008; therefore the PM, PM₁₀, and PM_{2.5} PTE is shown with the consideration of the control device. The transfer efficiency is based on electrostatic-airless gun for table leg type coated surfaces.

Methodology

Potential Emissions (lbs/hr) = Powder usage rate * (1- transfer efficiency)

Emissions (tons/yr) = Emissions (lbs/hr) * 8760 hrs/yr / 2000 lbs/ton

PM₁₀/PM_{2.5} emissions are assumed to equal PM.

**Revised Appendix A: Emission Calculations
Powder Coating Chromate Tank**

**Company Name: Delta Faucet Company
Address City IN Zip: 1425 West Main Street, Greensburg, Indiana 47240
MSOP Permit NO.: 031-31652-00007
Reviewer: Jack Harmon**

Tank	HAP	Tank capacity (gallons)	Tank Surface Area (ft ²)	*Chromium Compounds Emission Factor (grains/hr-ft ²)	*Total PM Emission Factor (grains/hr-ft ²)	Potential PM Emissions (lb/hr)	Potential PM Emissions (ton/yr)	Potential Chromium Emissions (lb/hr)	Potential Chromium Emissions (ton/yr)	Potential Total HAP Emissions (tons/yr)
Powder Coating Chromate Tank	Chrome Compounds	575	18.11	2	4.2	0.0109	0.0476	0.0052	0.0227	0.023

*Chromium and PM Emission factors are from AP-42 Table 12.20.2 for chromic acid anodizing; Raytheon uses a different plating process (electroless). Since electroless plating emission factors are not available, the chromic acid anodizing process emission factors are the best available emission factors available for potential emissions of chromium for this process.

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

**Company Name: Delta Faucet Company
Address City IN Zip: 1425 West Main Street, Greensburg, Indiana 47240
MSOP Permit NO.: 031-31652-00007
Reviewer: Jack Harmon**

	Heat Input Capacity MMBtu/hr	HHV mmBtu mmscf	Potential Throughput MMCF/yr
Boiler 586 south	25.2	1000	220.8
Boiler 2256 north	14.7	1000	128.8
Dry-off Oven 4179	0.5	1000	4.4
Fluidized bed burn off oven 2907	1.0	1000	8.7
Curing oven 4180	0.8	1000	7.0

Emission Factor in lb/MMCF	Pollutant						
	PM*	PM10*	direct PM2.5*	SO2	NOx 100 **see below	VOC	CO
Potential Emission in tons/yr	0.2	0.8	0.8	0.1	11.0	0.6	9.3

*PM emission factor is filterable PM only. PM10 emission factor is filterable and condensable PM10 combined.
PM2.5 emission factor is filterable and condensable PM2.5 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 2 for HAPs emissions calculations.

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

**Company Name: Delta Faucet Company
 Address City IN Zip: 1425 West Main Street, Greensburg, Indiana 47240
 MSOP Permit NO.: 031-31652-00007
 Reviewer: Jack Harmon**

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	2.318E-04	1.325E-04	8.278E-03	1.987E-01	3.753E-04

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	5.519E-05	1.214E-04	1.545E-04	4.194E-05	2.318E-04

Total HAPs = 2.083E-01

Methodology is the same as page 1.

The five highest organic and metal HAPs emission factors are provided above.
 Additional HAPs emission factors are available in AP-42, Chapter 1.4.
 See Page 3 for Greenhouse Gas calculations.

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

**Company Name: Delta Faucet Company
 Address City IN Zip: 1425 West Main Street, Greensburg, Indiana 47240
 MSOP Permit NO.: 031-31652-00007
 Reviewer: Jack Harmon**

	Greenhouse Gas		
	CO2	CH4	N2O
Emission Factor in lb/MMcf	120,000	2.3	2.2
Potential Emission in tons/yr	13,245	0.3	0.2
Summed Potential Emissions in tons/yr	13,246		
CO2e Total in tons/yr	13,326		

Methodology

The N2O Emission Factor for uncontrolled is 2.2. The N2O Emission Factor for low Nox burner is 0.64.
 Emission Factors are from AP 42, Table 1.4-2 SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03.
 Greenhouse Warming Potentials (GWP) from Table A-1 of 40 CFR Part 98 Subpart A.
 $Emission (tons/yr) = Throughput (MMCF/yr) \times Emission\ Factor (lb/MMCF) / 2,000\ lb/ton$
 $CO2e (tons/yr) = CO2\ Potential\ Emission\ ton/yr \times CO2\ GWP (1) + CH4\ Potential\ Emission\ ton/yr \times CH4\ GWP (21) + N2O\ Potential\ Emission\ ton/yr \times N2O\ GWP (310).$

**Revised Appendix A: Emission Calculations
Electroplating Plater ID 3700**

Company Name: Delta Faucet Company
Address City IN Zip: 1425 West Main Street, Greensburg, Indiana 47240
MSOP Permit NO.: 031-31652-00007
Reviewer: Jack Harmon

	Emission Factor (gr/dscf)	Total Flow Rate (cfm)	PTE before Control (lbs/hr)	PTE before Control (tons/yr)	Control Efficiency	PTE after Control (lbs/hr)	PTE after Control (tons/yr)	Weight % Lead	PTE Lead before controls (tons/yr)	PTE Lead after controls (tons/yr)
Chromium Electroplating										
PM	0.00069	14000	0.0828	0.363	99.98%	1.66E-05	7.25E-05	0.00005	1.81E-05	3.63E-09
Chromium	0.00033	14000	0.0396	0.173	99.98%	7.92E-06	3.47E-05			
Nickel Electroplating										
PM	0.000067	38690	0.0444	0.195	95.00%	2.22E-03	9.73E-03			
Nickel	0.000067	38690	0.0444	0.195	95.00%	2.22E-03	9.73E-03			
Copper Sulfate Electroplating										
PM	0.000081	4420	0.0614	0.269	95.00%	3.07E-03	1.34E-02			
Copper	0.000081	4420	0.0614	0.269	95.00%	3.07E-03	1.34E-02			
Total PM				0.826		5.31E-03	0.023			

Each Tank for decorative chromium electroplating is open and equipped with separate scrubber as an add-on device
Source compliance to the NESHAP is via surface tension (35 dynes/cm) The scrubber is not required for compliance to the NESHAP 40 CFR 63, Subpart N
Emissions from Tank T27, T22a, and T22b are included in Line 1038 on page 7

Methodology

Chromium Electroplating

Emission factor for decorative chromium electroplating (SCC 3-09-1010-28) using a fume suppressant from AP-42, Table 12.20-1
 $PTE\ before\ Control\ (lbs/hr) = Emission\ factor\ (gr/dscf) \times Total\ flow\ rate\ (cfm) \times (60\ min/hr) / 7,000\ gr/lb$
 $PTE\ Lead\ before\ Control\ (lbs/hr) = PTE\ PM\ before\ Control\ (lbs/hr) \times Weight\ \% \ Lead$
 $PTE\ after\ Control\ (lbs/hr) = PTE\ before\ Control\ (lbs/hr) \times (1 - Control\ Efficiency)$
 $PTE\ (tons/yr) = PTE\ (lbs/hr) \times 8,760\ hrs/yr / 2,000\ lbs/ton$

Nickel and Copper Sulfate Electroplating

Emission factors for Nickel electroplating (SCC 3-09-010-68) using a wet scrubber and Copper Sulfate Electroplating using a wet scrubber (SCC 3-09-010-45) from AP-42, Table 12.20-4
 $PTE\ after\ Control\ (lbs/hr) = Emission\ factor\ (gr/dscf) \times Total\ flow\ rate\ (cfm) \times (60\ min/hr) / 7,000\ gr/lb$
 $PTE\ before\ Control\ (lbs/hr) = PTE\ after\ Control\ (lbs/hr) / (1 - Control\ Efficiency)$
 $PTE\ (tons/yr) = PTE\ (lbs/hr) \times 8,760\ hrs/yr / 2,000\ lbs/ton$

Material	Density (lbs/gal)	Weight % Volatile (H2O & Organics)	Weight % Water	Weight % Organics	Volume % Water	Percentage of Material (/shift)	Tank Capacity (gallons)	Number of Shifts per day	Potential VOC (tons/yr)
Fume Suppressant	8.76	12.00%	0.0%	12.0%	0.0%	0.05%	1603	3.00	0.461

A negligible amount of glycol ethers may be emitted from the UDYPREP 340 Acid Salt.

Methodology

$PTE\ VOC\ (tons/yr) = Density\ (lbs/gal) \times Weight\ \% \ Organics \times Percentage\ of\ Material\ (/shift) \times Tank\ Capacity\ (gallons) \times Number\ of\ Shifts\ per\ Day \times 365\ Days/yr / 2,000\ lbs/ton$

Totals	PTE before Control (lbs/hr)	PTE before Control (tons/yr)	PTE after Control (lbs/hr)	PTE after Control (tons/yr)
PM	0.189	0.826	0.005	0.023
VOC		0.461		0.461
Chromium	3.96E-02	1.7E-01	7.92E-06	3.47E-05
Nickel	0.044	0.195	0.002	0.010
Lead		1.8E-05		3.63E-09
Total HAPs		0.368		0.010

**Revised Appendix A: Emission Calculations
Electroplating Plater T23-26(Plater 574)**

Company Name: Delta Faucet Company
Address City IN Zip: 1425 West Main Street, Greensburg, Indiana 47240
MSOP Permit NO.: 031-31652-00007
Reviewer: Jack Harmon

Description	Emission Factor (grains per dscfm)	Control Efficiency	Airflow (scfm)	PTE of Copper emissions (tons per year)	PTE of PM emissions (lbs/hr)	PTE of PM emissions (tons per year)	PTE of PM emissions after control (tons per year)
Copper Tank	8.10E-05	95	8898	0.54	0.124	0.54	0.03

Methodology

Emission Calculations are based on AP-42 - Page 12.20 (Supplement B 7/96)

PM10/PM2.5 emissions are assumed to equal PM.

Potential emissions (tons/year) = emission factor * airflow / (1- control efficiency) *60 minutes/hr * 8760 hrs/yr * 1 ton / 2000 lbs * 1 lb / 7000 grains.

**Revised Appendix A: Emission Calculations
Formaldehyde electroless Plating R&D 1 Line (formerly T7/T8)*****

Company Name: Delta Faucet Company
Address City IN Zip: 1425 West Main Street, Greensburg, Indiana 47240
MSOP Permit NO.: 031-31652-00007
Reviewer: Jack Harmon

VOC and HAP emissions

Unit ID	Pollutant	Usage (lbs/hr)	Potential Emissions before Controls (lbs/hr)	PTE before Controls (tons/yr)	Control Efficiency (%)	PTE after Controls (lbs/hr)	PTE after Controls (tons/yr)
EC Tank 1715	Formaldehyde	0.123	0.123	0.539	99.0%	0.001	0.005
EC Tank 1715	PM	0.05	0.05	0.219	90.00%	0.005	0.0219

*Emissions from the Brite dip tank are methanol emissions only

**Small amounts of SO₂ and NO_x can result from those operations.

NO_x emissions supplied by the applicant are 0.754 tons per year, and SO_x emissions supplied by the applicant are 0.086 tons per year.

*** Production from T7/T8 lines were moved to R&D 1 Line in 2010 and equipment removed. These emissions represent the production electroless plating at the R&D 1 Line.

Waste Water Treatment area

Sulfuric acid used	emission Factor	SO ₂ emissions
gal/year	lb/ton	tons/yr
10000	0.1	0.004

Density of Water = 8.34 lbs/gal
Specific Gravity for solvent = 1.84

Sox Emissions (tons/yr) = Solvent (gallon/yr) * Solvent Specific Gravity (1.84)* Density of water(8.34 lbs/gal)*(1/2000lbs/ton) *(.1lbs/ton) SO₂ / 2000 lbs/ton

**Revised Appendix A: Emission Calculations
Rack Strip and Plater Line 1038 and Rack Strip Line 255P and 4560**

Company Name: Delta Faucet Company
Address City IN Zip: 1425 West Main Street, Greensburg, Indiana 47240
MSOP Permit NO.: 031-31652-00007
Reviewer: Jack Harmon

	Capacity	Emission Factor for Chromium (grains/A-hr)	Emission Factor for Nickel (grains/A-hr)	Emission factor for Copper (grains/A-hr)	Emision Factor for Particulate (grains/A-hr)	PTE Cr (tons per year)	PTE Ni (tons per year)	PTE PM (tons per year)
**Line 1038	6000	-	0.63		0.63	-	4.730	4.730
Line 255	6000	0.03	-		0.07	0.124		0.259
*Line 4560				NA	NA	-	-	NA
Total						0.124	4.730	4.989

Rack Strip Line 1038

Material	Normal Usage (lbs/hr)	Maximum Usage (lbs/hr)	Maximum Usage (tons/yr)		Control Efficiency (%)	controlled PTE of PM (tons/yr)
T34						
Alkaline Cleaner	1.09	2.05	8.98		95.0%	0.449
T37						
Aqua Ammonia	0.05	0.09	0.41		95.0%	0.021
Acetic Acid	0.03	0.06	0.25		95.0%	0.012
Total PM			0.66			0.033

*Emission Factors are based on AP-42 Table 12.20-4;

**Emission Factors are based on AP-42 12.20-1 and 12.20-4, T22b is identical to T22a so emissions are multiplied by 2.

Methodology

Potential Emissions = Emission Factor * Capacity (A)*8760 (hr/yr)*1/7000 (lb/grain) * 1/2000 (tons/lb)

PM10 and PM2.5 emissions are assumed to be equal to PM.

**Revised Appendix A: Emission Calculations
Process Operations- buffing**

Company Name: Delta Faucet Company
Address City IN Zip: 1425 West Main Street, Greensburg, Indiana 47240
MSOP Permit NO.: 031-31652-00007
Reviewer: Jack Harmon

Emission Unit	Flow Rate (acfm)	Inlet Grain Loading (gr/acfm)	Potential PM Emissions (lbs/hr)	Potential PM Emissions (tons/yr)
Two wheel Buffing #3979	2100	0.01	0.18	0.79
38 hand buffing stations	500	0.01	0.04	14.27
rotary buffing station #236	1340	0.01	0.11	1.51
rotary buffing station #4084	1000	0.01	0.09	1.13
rotary buffing station #433	650	0.01	0.06	0.73
Texturing station 4431	600	0.01	0.05	0.68
L4 rotary station 709	925	0.01	0.08	1.04
Robot Buffing Station #3213	3300	0.01	0.28	1.24
Robot Buffing Station #3215	3300	0.01	0.28	1.24
Robot Buffing Station #3997	3300	0.01	0.28	1.24
Robot Buffing Station #4081	3300	0.01	0.28	1.24
Robot Buffing Station #4082	3300	0.01	0.28	1.24
Robot Buffing Station #4083	3300	0.01	0.28	1.24

Total

27.573

*Two wheel buffing stations has three operations. Potential emissions are multiplied by three.

Methodology

Potential Emissions (lbs/hr) = Flow Rate * Inlet Grain Loading * 60 min/hr / (7000 grains/lb)

Potential Emissions (tons/year) = Flow Rate * Inlet Grain Loading * 60 min/hr * 8760 hr/yr / (7000 grains/lb * 2000 lbs/ton)

PM10/PM2.5 emissions are assumed to equal PM.

Air Washers are the controls for the Buffing operations, except for #3979.

Air Washers

Emission Unit	Stack	Flow Rate (acfm)	outlet Grain Loading (gr/acfm)	Controlled	Controlled	Control Efficiency	PTE	PTE	Process Weight Rate (lbs/hr)	Allowable Emissions PM (lbs/hr)
				Emission Rate (lbs/hr)	Emission Rate (tons/yr)		PM (lbs/hr)	PM (tons/yr)		
Buffing Air Washer	3011	48000	1.01E-06	4.16E-04	1.82E-03	95.0%	8.31E-03	3.64E-02		
Buffing Air Washer	3915	60000	1.01E-06	5.19E-04	2.28E-03	95.0%	1.04E-02	4.55E-02		
Total				9.35E-04	4.10E-03		1.87E-02	8.19E-02	less than 100	0.551

Methodology

Controlled Emissions (lbs/hr) = gr/acfm x acfm x 60 minutes/hr / 7000 gr/lb

Uncontrolled Emissions (lbs/hr) = Controlled Emissions (lbs/hr) / (1 - Control Efficiency)

Emissions (tons/yr) = Emissions (lbs/hr) * 8760 hrs/yr / 2000 lbs/ton

Allowable Emissions (lbs/hr) = 4.10 x (Process weight (lbs/hr) / 2000 lbs/ton)^0.67 [326 IAC 6-3-2]

**Revised Appendix A: Emission Calculations
Process Operations- (5) parts washers**

Company Name: Delta Faucet Company
Address City IN Zip: 1425 West Main Street, Greensburg, Indiana 47244
MSOP Permit NO.: 031-31652-00007
Reviewer: Jack Harmon

(5) Parts Washers PTE VOC

Parts Washer	VOC %	VOC PTE tons/yr
Solvent gal/yr		
1296.00	100%	4.46

Methodology

Density of Water = 8.34 lbs/gal

Specific Gravity for Hydrotreated distillate CAS#64742-47-8 = 0.825

Solvent VOC content = 100%

VOC Emissions (tons/yr) = Solvent (gallon/yr) * Solvent Specific Gravity (.825) * Density of water(8.34) * (100/100) VOC / 2000 lbs/ton

Revised Appendix A: Welding and Thermal Cutting

Company Name: Delta Faucet Company
 Address City IN Zip: 1425 West Main Street, Greensburg, Indiana 47240
 MSOP Permit NO.: 031-31652-00007
 Reviewer: Jack Harmon

PROCESS	Number of Stations	Max. electrode consumption per station (lbs/hr)		EMISSION FACTORS * (lb pollutant / lb electrode)				EMISSIONS (lb/hr)				TOTAL HAPS (lb/hr)
				PM = PM10	Mn	Ni	Cr	PM = PM10	Mn	Ni	Cr	
WELDING												
Submerged Arc	0	0		0.036	0	0	0	0.000	0	0.000	0	0.000
Metal Inert Gas (MIG)(ER5154)	0	0		0.0241	3E-05		1E-05	0.000	0	0.000	0	0.000
Stick (E7018 electrode)	0	0		0.0211	0	0	0	0.000	0	0.000	0	0.000
Tungsten Inert Gas (TIG)(carbon steel)	0	0		0.0055	0	0	0	0.000	0	0.000	0	0.000
Oxyacetylene(carbon steel)	2	0.2		0.0055	0	0	0	0.002	0	0.000	0	0.000
FLAME CUTTING												
	Number of Stations	Max. Metal Thickness Cut (in.)	Max. Metal Cutting Rate (in./minute)	EMISSION FACTORS (lb pollutant/1,000 inches cut, 1" thick)				EMISSIONS (lbs/hr)				TOTAL HAPS (lb/hr)
				PM = PM10	Mn	Ni	Cr	PM = PM10	Mn	Ni	Cr	
Oxyacetylene	0	0	0	0.1622	5E-04	1E-04	0.0003	0.000	0.000	0.000	0.000	0.000
Oxymethane	0	0	0	0.0815	2E-04	0	0.0002	0.000	0.000	0.000	0.000	0.000
Plasma	0	0	0	0	0	0	0	0.000	0.000	0.000	0.000	0.000
EMISSION TOTALS								PM = PM10	Mn	Ni	Cr	Total HAPS
Potential Emissions lbs/hr								0.002	0.00	0.00	0.00	0.00
Potential Emissions lbs/day								0.053	0.00	0.00	0.00	0.00
Potential Emissions tons/year								0.010	0.000	0.000	0.000	0.000

METHODOLOGY

*Emission Factors are default values for carbon steel unless a specific electrode type is noted in the Process column. Consult AP-42 or other reference for different electrode types.

Welding emissions, lb/hr: (# of stations)(max. lbs of electrode used/hr/station)(emission factor, lb. pollutant/lb. of electrode used)

Cutting emissions, lb/hr: (# of stations)(max. metal thickness, in.)(max. cutting rate, in./min.)(60 min./hr.)(emission factor, lb. pollutant/1,000 in. cut, 1" thick)

Emissions, lbs/day = emissions, lbs/hr x 24 hrs/day

Emissions, tons/yr = emissions, lb/hr x 8,760 hrs/day x 1 ton/2,000 lbs.

Plasma cutting emission factors are from the American Welding Society study published in Sweden (March 1994).

Welding and other flame cutting emission factors are from an internal training session document.

See AP-42, Chapter 12.19 for additional emission factors for welding.



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: Luke Fullenkamp
Delta Faucet Company
1425 W Main Street
Greensburg, IN 47240

DATE: May 3, 2012

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

SUBJECT: Final Decision
Minor Permit Revision
031-31652-00007

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:
Scott Wesseler – Plant Manager
Leigh Anne Harvey – ENVIRON International Corp.
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 5/3/2012 Delta Faucet Co 031-31652-00007 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		

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1		Luke Fullenkamp Delta Faucet Co 1425 W Main St Greensburg IN 47240 (Source CAATS) via confirmed delivery										
2		Scott Wesseler Plant Mgr Delta Faucet Co 1425 W Main St Greensburg IN 47240 (RO CAATS)										
3		Decatur County Commissioners 150 Courthouse Square Greensburg IN 47240 (Local Official)										
4		Greensburg City Council & Mayors office 314 W Washington Street Greensburg IN 47240 (Local Official)										
5		Decatur County Health Department 801 N. Lincoln St Greensburg IN 47240-1397 (Health Department)										
6		Mr. Leonard Rohls 8504 North County Road 300 West Batesville IN 47006 (Affected Party)										
7		Melanie Brassell 606 Nelsons Parkway, P.O. Box 465 Wakarusa IN 46573 (Affected Party)										
8		Ms. Leigh Anne Harvey ENVIRON International Corp. One Indiana Square Suite 2550 Indianapolis In 46204 (Consultant)										
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