



Mitchell E. Daniels, Jr.
Governor

Thomas W. Easterly
Commissioner

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

TO: Interested Parties / Applicant
DATE: March 11, 2005
RE: KYB Manufacturing North America, Inc / 081-20410-00015
FROM: Paul Dubenetzky
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, Room 1049, 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 1/10/05



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March 11, 2005

Mr. Benny White
KYB Manufacturing North America, Inc.
2625 North Morton
Franklin, Indiana 46131

Re: 081-20410-00015
First Minor Permit Revision to
MSOP 081-12622-00015

Dear Mr. White:

KYB Manufacturing North America, Inc., was issued a Minor Source Operating Permit on December 21, 2001 for a hard chrome electroplating plant. A letter requesting changes to this permit was received on November 24, 2004. Pursuant to the provisions of 326 IAC 2-6.1-6(g), a minor permit revision to this permit is hereby approved as described in the attached Technical Support Document.

This revision consists of adding an additional electroplating line (P-4) and an additional dip coating line (E-Coat 3) with a 2.5 MMBtu/hr natural gas fired cure oven and a 3.0 MMBtu/hr natural gas fired process boiler.

The following construction conditions are applicable to the proposed project:

1. The data and information supplied with the application shall be considered part of this permit revision 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. Pursuant to IC 13-15-5-3, this approval to construct 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, the minor source operating 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. Please find attached a copy of the revised permit.

Pursuant to Contract No. A305-5-65, IDEM, OAQ has assigned the processing of this application to Eastern Research Group, Inc., (ERG). Therefore, questions should be directed to Yu-Lien Chu, ERG, 1600 Perimeter Park Drive, Morrisville, North Carolina 27560, or call (919) 468-7871 to speak directly to Ms. Chu. Questions may also be directed to Duane Van Laningham at IDEM, OAQ, 100 North Senate Avenue, P.O. Box 6015, Indianapolis, Indiana, 46206-6015, or call (800) 451-6027 and ask for Duane Van Laningham or extension 3-6878, or dial (317) 233-6878.

Sincerely,
Original signed by
Paul Dubenetzky, Branch Chief
Office of Air Quality

Attachments

ERG/YC

cc: File - Johnson County
Johnson County Health Department
Air Compliance Section Inspector - Vaughn Ison
Compliance Data Section
Administrative and Development
Technical Support and Modeling - Michele Boner



Mitchell E. Daniels, Jr.
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Thomas W. Easterly
 Commissioner

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NEW CONSTRUCTION PERMIT AND MINOR SOURCE OPERATING PERMIT OFFICE OF AIR QUALITY

**KYB Manufacturing North America, Inc.
 2625 North Morton
 Franklin, Indiana 46131**

(herein known as the Permittee) is hereby authorized to construct and operate subject to the conditions contained herein, the emission units 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.

Operation Permit No.: MSOP 081-12622-00015	
Issued by: Paul Dubenetzky, Branch Chief Office of Air Quality	Issuance Date: December 21, 2001 Expiration Date: December 21, 2006

First Notice-Only Change No.: 081-15647-00015, issued on March 21, 2002.
 Second Notice-Only Change No.: 081-15857-00015, issued on June 24, 2002.

First Minor Permit Revision No.: 081-20410-00015	Affected Pages: 4-6, 16-24, 27, 29
Issued by: Original signed by Paul Dubenetzky, Branch Chief Office of Air Quality	Issuance Date: March 11, 2005

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SECTION A

SOURCE SUMMARY

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

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

The Permittee owns and operates a stationary hard chrome electroplating plant used to manufacture piston rods for automotive struts.

Authorized Individual: Environmental Manager
Source Address: 2625 North Morton, Franklin, Indiana 46131
Mailing Address: 2625 North Morton, Franklin, Indiana 46131
Phone Number: 317-736-7774
SIC Code: 3710
County Location: Johnson
Source Location Status: Nonattainment for the 8-hour Ozone Standard
Attainment for all other criteria pollutants
Source Status: Minor Source Operating Permit
Minor Source, under PSD and Emission Offset Rules
Minor Source, Section 112 of the Clean Air Act
Not in 1 of 28 Source Categories

A.2 Emissions units and Pollution Control Equipment Summary

This stationary source is approved to construct and operate the following emissions units and pollution control devices:

- (a) One (1) hard chrome electroplating line (identified as P-1), constructed in 1997, consisting of six (6) rectifiers each having a maximum capacity of 6,000 Amps, with emissions controlled using a composite mesh pad wet scrubber. This electroplating line has a maximum throughput capacity of 550 piston rods per hour. Emissions are exhausted through stack H300-A.
- (b) One (1) hard chrome electroplating line (identified as P-2), constructed in 1997, consisting of six (6) rectifiers each having a maximum capacity of 6,000 Amps, with emissions controlled using a composite mesh pad wet scrubber. This electroplating line has a maximum throughput capacity of 550 piston rods per hour. Emissions are exhausted through stack H200-A.
- (c) Four (4) spray paint booths, identified as FA-1, FA-2, FA-3 and FA-4, each using an electrostatic air atomization spray gun and with particulate matter emissions controlled using dry filters. The maximum throughput capacity for each spray booth is as follows:
 - (1) FA-1 has a maximum throughput capacity of 206 metal parts per hour, exhausting at stacks E300-PB and E300-TU;
 - (2) FA-2 has a maximum throughput capacity of 240 metal parts per hour, exhausting at stack J400-TU;
 - (3) FA-3 has a maximum throughput capacity of 240 metal parts per hour, exhausting at stack K220-TU; and

- (4) FA-4 has a maximum throughput capacity of 240 metal parts per hour, exhausting at stack L220-TU.
- (d) Two (2) dip coating lines, identified as E-Coat 1 and E-Coat 2, having maximum throughput capacities of 550 outer shells per hour and 600 outer shells per hour, respectively.
- (e) Six (6) natural gas-fired boilers:
 - (1) E-Coat 2 Process Boiler, constructed in June 1997, having a maximum heat input capacity of 3.5 MMBtu/hour, exhausting at stack P 100-21G;
 - (2) Space Heating Boiler No. 1, constructed in June 1988, having a maximum heat input capacity of 10.461 MMBtu/hour, exhausting at stack L85090;
 - (3) Space Heating Boiler No. 2, constructed in June 1988, having a maximum heat input capacity of 10.461 MMBtu/hour, exhausting at stack L-85091;
 - (4) E-Coat 1 Process Boiler No. 1 (identified as EC1-J300-22A), constructed in June 1991, having a maximum heat input capacity of 1.69 MMBtu/hour, exhausting at stack J300-22A;
 - (5) E-Coat 1 Process Boiler No. 2 (identified as EC1-J300-22B), constructed in June 1991, having a maximum heat input capacity of 1.69 MMBtu/hour, exhausting at stack J300-22B; and
 - (6) One (1) E-Coat 3 process boiler, identified as EC3-Q300-23E, to be constructed in 2005, with a maximum heat input capacity of 3.0 MMBtu/hr, and exhausting through stack Q300-23E.
- (f) Twelve (12) natural gas-fired heaters and ovens:
 - (1) E-Coat 1 Cure Oven (identified as EC1-J300-22D) having a maximum heat input capacity of 1.59 MMBtu/hour, exhausting at stack J300-22D;
 - (2) E-Coat 2 Cure Oven (identified as EC2-P100-21D) having a maximum heat input capacity of 1.59 MMBtu/hour, exhausting at stacks P100-21D, P100-21E and P100-21F;
 - (3) Strut Line FA1 Dry-off Oven (identified as FA1-E300-OV) having a maximum heat input capacity of 0.30 MMBtu/hour, exhausting at stack E300-OV;
 - (4) Strut Line FA1 Cure Oven (identified as FA1-E400-OV) having a maximum heat input capacity of 0.30 MMBtu/hour, exhausting at stack E400-OV;
 - (5) Strut Line FA2 Cure Oven (identified as FA2-J400-OV) having a maximum heat input capacity of 0.88 MMBtu/hour, exhausting at stack J400-OV;
 - (6) Strut Line FA3 Hot Water Heater (identified as FA3-K220-G) having a maximum heat input capacity of 0.88 MMBtu/hour, exhausting at stack K220-G;
 - (7) Strut Line FA3 Cure Oven (identified as FA3-K220-OV) having a maximum heat input capacity 0.30 MMBtu/hour, exhausting at stack K220-OV;

- (8) Strut Line FA4 Hot Water Washer (identified as FA4-L220-G) having a maximum heat input capacity of 0.88 MMBtu/hour, exhausting at stack L220-G;
 - (9) Strut Line FA4 Cure Oven (identified as FA4-L220-OV) having a maximum heat input capacity of 0.30 MMBtu/hour, exhausting at stack L220-OV;
 - (10) Strut Line FA5 Washer Heater (identified as FA5-M230-G) having a maximum heat input capacity of 0.80 MMBtu/hour, exhausting at stack M230-G;
 - (11) Strut Line FA6 Washer Heater (identified as FA6-N210-G) having a maximum heat input capacity of 0.80 MMBtu/hour, exhausting at stack N210-G; and
 - (12) One (1) E-Coat 3 cure oven, identified as EC3-Q300-23D, to be constructed in 2005, with a maximum heat input capacity of 2.5 MMBtu/hr, and exhausting through stack Q300-23D.
- (g) One (1) natural gas-fired burn-off oven (identified as BO-OV) having a maximum heat input capacity of 0.80 MMBtu/hour, with emissions controlled using an afterburner, exhausting at stack BO-OV.
 - (h) One (1) hard chrome electroplating line (identified as P-3), consisting of six (6) rectifiers each having a maximum capacity of 6,000 Amps, with emissions controlled using a composite mesh pad wet scrubber system. This electroplating line has a maximum throughput capacity of 1,000 piston rods per hour. Emissions are exhausted at stack H400-A.
 - (i) One (1) hard chrome electroplating line, identified as P-4, to be constructed in 2005, consisting of seven (7) rectifiers with a maximum capacity of 6,000 Amperes and one (1) rectifier with a maximum capacity of 4,000 Amperes, controlled by a composite mesh pad wet scrubber system. This electroplating line has a maximum throughput capacity of 1,350 piston rods per hour and exhausts through stack H500-A.
 - (j) One (1) dip coating line, identified as E-Coat 3, to be constructed in 2005, with a maximum throughput rate of 1,200 parts per hour, and exhausting through stacks Q300-23A through Q300-23C.

SECTION B GENERAL CONSTRUCTION CONDITIONS

THIS SECTION OF THE PERMIT IS BEING ISSUED UNDER THE PROVISIONS OF 326 IAC 2-1.1 AND 40 CFR 52.780, WITH CONDITIONS LISTED BELOW.

B.1 Permit No Defense [IC 13]

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

B.2 Definitions

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, any applicable definitions found in IC 13-11, 326 IAC 1-2, and 326 IAC 2-1.1-1 shall prevail.

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

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

B.4 Revocation of Permits [326 IAC 2-1.1-9(5)]

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

B.5 Modification to Permit [326 IAC 2]

Notwithstanding the Section B condition entitled "Minor Source Operating Permit", all requirements and conditions of this construction permit shall remain in effect unless modified in a manner consistent with procedures established for modifications of construction permits pursuant to 326 IAC 2 (Permit Review Rules).

B.6 Minor Source Operating Permit [326 IAC 2-6.1]

This document shall also become a minor source operating permit pursuant to 326 IAC 2-6.1 when, prior to start of operation, the following requirements are met:

- (a) The attached Affidavit of Construction shall be submitted to the Office of Air Quality (OAQ), Permit Administration & Development Section.
 - (1) If the Affidavit of Construction verifies that the facilities covered in this Construction Permit were constructed as proposed in the application, then the facilities may begin operating on the date the Affidavit of Construction is postmarked or hand delivered to IDEM.
 - (2) If the Affidavit of Construction does not verify that the facilities covered in this Construction Permit were constructed as proposed in the application, then the Permittee shall receive an Operation Permit Validation Letter from the Chief of the Permit Administration & Development Section prior to beginning operation of the facilities.
- (b) If construction is completed in phases; i.e., the entire construction is not done continuously, a separate affidavit must be submitted for each phase of construction. Any permit conditions associated with operation start up dates such as stack testing for New Source Performance Standards (NSPS) shall be applicable to each individual phase.
- (c) Upon receipt of the Operation Permit Validation Letter from the Chief of the Permit Administration & Development Section, the Permittee shall attach it to this document.

- (d) The operation permit will be subject to annual operating permit fees pursuant to 326 IAC 2-1.1-7(Fees).
- (e) Pursuant to 326 IAC 2-6.1-7, the Permittee shall apply for an operation permit renewal at least ninety (90) days prior to the expiration date established in the validation letter. If IDEM, OAQ, upon receiving a timely and complete permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect until the renewal permit has been issued or denied. The operation permit issued shall contain as a minimum the conditions in Section C and Section D of this permit.

B.7 NSPS Reporting Requirement

Pursuant to the New Source Performance Standards (NSPS), Part 60, Subpart Dc, the source owner/operator is hereby advised of the requirement to report the following at the appropriate times:

- (a) Commencement of construction date (no later than 30 days after such date);
- (b) Anticipated start-up date (not more than 60 days or less than 30 days prior to such date);
- (c) Actual start-up date (within 15 days after such date); and
- (d) Date of performance testing (at least 30 days prior to such date), when required by a condition elsewhere in this permit.

Reports are to be sent to:

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Quality
100 North Senate Avenue, P. O. Box 6015
Indianapolis, IN 46206-6015

The application and enforcement of these standards have been delegated to the IDEM, OAQ. The requirements of 40 CFR Part 60 are also federally enforceable.

B.8 Permit Term [326 IAC 2-6.1-7]

This permit is issued for a fixed term of five (5) years from the original date, 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

SECTION C

SOURCE OPERATION CONDITIONS

Entire Source

C.1 PSD Minor Source Status [326 IAC 2-2] [40 CFR 52.21]

- (a) The total source potential to emit for all criteria pollutants is less than 250 tons per year. Therefore the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration) and 40 CFR 52.21 will not apply.
- (b) Any change or modification which may increase potential to emit to 250 tons per year from this source, shall cause this source to be considered a major source under PSD, 326 IAC 2-2 and 40 CFR 52.21, and shall require approval from IDEM, OAQ prior to making the change.

C.2 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 (PMP) after issuance of this permit, including the following information on each emissions unit:
 - (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;
 - (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.
- (b) The Permittee shall implement the Preventive Maintenance Plans as necessary to ensure that failure to implement the Preventive Maintenance Plan does not cause or contribute to a violation of any limitation on emissions or potential to emit.
- (c) PMP's shall be submitted to IDEM, OAQ, upon request and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ, may require the Permittee to revise its Preventive Maintenance Plan whenever lack of proper maintenance causes or contributes to any violation.

C.3 Permit Revision [326 IAC 2-5.1-3(e)(3)] [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 amend or modify this permit.
- (b) Any application requesting an amendment or modification of this permit shall be submitted to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue
Indianapolis, Indiana 46204

Any such application should be certified by the "authorized individual" as defined by 326 IAC 2-1.1-1.
- (c) The Permittee shall notify the OAQ within thirty (30) calendar days of implementing a notice-only change. [326 IAC 2-6.1-6(d)]

C.4 Inspection and Entry [326 IAC 2-5.1-3(e)(4)(B)] [326 IAC 2-6.1-5(a)(4)]

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) Have access to and copy, at reasonable times, any records that must be kept under this title or the conditions of this permit or any operating permit revisions;
- (c) Inspect, at reasonable times, any processes, emissions units (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit or any operating permit revisions;
- (d) Sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with this permit or applicable requirements; and
- (e) Utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of assuring compliance with this permit or applicable requirements.

C.5 Transfer of Ownership or Operation [326 IAC 2-6.1-6(d)(3)]

Pursuant to [326 IAC 2-6.1-6(d)(3)] :

- (a) In the event that ownership of this source is changed, the Permittee shall notify IDEM, OAQ, Permits Branch, within thirty (30) days of the change.
- (b) The written notification shall be sufficient to transfer the permit to the new owner by an notice-only change pursuant to 326 IAC 2-6.1-6(d)(3).
- (c) IDEM, OAQ, shall issue a revised permit.

The notification which shall be submitted by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1.

C.6 Permit Revocation [326 IAC 2-1-9]

Pursuant to 326 IAC 2-1-9(a)(Revocation of Permits), this permit to construct and 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.7 Opacity [326 IAC 5-1]

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

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

Testing Requirements

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

- (a) Compliance testing on new emissions units shall be conducted within 60 days after achieving maximum production rate, but no later than 180 days after initial start-up, if specified in Section D of this approval. All testing shall be performed according to the provisions of 326 IAC 3-6 (Source Sampling Procedures), except as provided elsewhere in this permit, utilizing any applicable procedures and analysis methods specified in 40 CFR 51, 40 CFR 60, 40 CFR 61, 40 CFR 63, 40 CFR 75, or other procedures approved by IDEM, OAQ.

A test protocol, except as provided elsewhere in this permit, shall be submitted to:

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Quality
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

no later than thirty-five (35) days prior to the intended test date. The Permittee shall submit a notice of the actual test date to the above address so that it is received at least two weeks prior to the test date.

- (b) All test reports must be received by IDEM, OAQ within forty-five (45) days after the completion of the testing. An extension may be granted by the IDEM, OAQ, if the source submits to IDEM, OAQ, a reasonable written explanation within five (5) days prior to the end of the initial forty-five (45) day period.

The documentation submitted by the Permittee does not require certification by the "authorized individual" as defined by 326 IAC 2-1.1-1.

Compliance Monitoring Requirements

C.9 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.10 Monitoring Methods [326 IAC 3]

Any monitoring or testing required by Section D of this permit shall be performed according to the provisions of 326 IAC 3, 40 CFR 60, Appendix A, or other approved methods as specified in this permit.

C.11 Compliance Response Plan - Failure to Take Response Steps [326 IAC 1-6]

- (a) The Permittee is required to prepare a Compliance Response Plan (CRP) for each compliance monitoring condition of this permit. A CRP shall be submitted to IDEM, OAQ upon request. The CRP shall be prepared within ninety (90) days after issuance of this permit by the Permittee, supplemented from time to time by the Permittee, maintain on site, and comprised of:
- (1) Reasonable response steps that may be implemented in the event that a response step is needed pursuant to the requirements of Section D of this permit; and an expected timeframe for taking reasonable response steps.
 - (2) If, at anytime, the Permittee takes reasonable response steps that are not set forth in the Permittee's current Compliance Response Plan and the Permittee documents such response in accordance with subsection (e) below, the Permittee shall amend its Compliance Response Plan to include such response steps taken.
- (b) For each compliance monitoring condition of this permit, appropriate response steps shall be taken when indicated by the provisions of that compliance monitoring condition as follows:
- (1) Reasonable response steps shall be taken as set forth in the Permittee's current Compliance Response Plan; or
 - (2) If none of the reasonable response steps listed in the Compliance Response Plan is applicable or responsive to the excursion, the Permittee shall devise and implement additional response steps as expeditiously as practical. Taking such additional response steps shall not be considered a deviation from this permit so long as the Permittee documents such response steps in accordance with this condition.
 - (3) If the Permittee determines that additional response steps would necessitate that the emissions unit or control device be shut down, the IDEM, OAQ shall be promptly notified of the expected date of the shut down, the status of the applicable compliance monitoring parameter with respect to normal, and the results of the actions taken up to the time of notification.
 - (4) Failure to take reasonable response steps shall constitute a violation of the permit.
- (c) The Permittee is not required to take any further response steps for any of the following reasons:
- (1) A false reading occurs due to the malfunction of the monitoring equipment and prompt action was taken to correct the monitoring equipment.
 - (2) The Permittee has determined that the compliance monitoring parameters established in the permit conditions are technically inappropriate, has previously submitted a request for an administrative amendment to the permit, and such request has not been denied.

- (3) An automatic measurement was taken when the process was not operating.
- (4) The process has already returned to operating within "normal" parameters and no response steps are required.
- (d) The Permittee shall record all instances when response steps are taken.
- (e) Except as otherwise provided by a rule or provided specifically in Section D, all monitoring as required in Section D shall be performed when the emission unit is operating, except for time necessary to perform quality assurance and maintenance activities.

Record Keeping and Reporting Requirements

C.12 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.13 Monitoring Data Availability [326 IAC 2-6.1-2] [IC 13-14-1-13]

- (a) With the exception of performance tests conducted in accordance with Section C- Performance Testing, all observations, sampling, maintenance procedures, and record keeping, required as a condition of this permit shall be performed at all times the equipment is operating at normal representative conditions.
- (b) As an alternative to the observations, sampling, maintenance procedures, and record keeping of subsection (a) above, when the equipment listed in Section D of this permit is not operating, the Permittee shall either record the fact that the equipment is shut down or perform the observations, sampling, maintenance procedures, and record keeping that would otherwise be required by this permit.
- (c) If the equipment is operating but abnormal conditions prevail, additional observations and sampling should be taken with a record made of the nature of the abnormality.
- (d) If for reasons beyond its control, the operator fails to make required observations, sampling, maintenance procedures, or record keeping, reasons for this must be recorded.

- (e) At its discretion, IDEM may excuse such failure providing adequate justification is documented and such failures do not exceed five percent (5%) of the operating time in any quarter.
- (f) Temporary, unscheduled unavailability of staff qualified to perform the required observations, sampling, maintenance procedures, or record keeping shall be considered a valid reason for failure to perform the requirements stated in (a) above.

C.14 General Record Keeping Requirements [326 IAC 2-6.1-2]

- (a) Records of all required monitoring data and support information 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 kept at the source location for a minimum of three (3) years and available upon the request of an IDEM, OAQ, representative. 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 written request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.
- (b) Records of required monitoring information shall include, where applicable:
 - (1) The date, place, and time of sampling or measurements;
 - (2) The dates analyses were performed;
 - (3) The company or entity performing the analyses;
 - (4) The analytic techniques or methods used;
 - (5) The results of such analyses; and
 - (6) The operating conditions existing at the time of sampling or measurement.
- (c) Support information shall include, where applicable:
 - (1) Copies of all reports required by this permit;
 - (2) All original strip chart recordings for continuous monitoring instrumentation;
 - (3) All calibration and maintenance records;
 - (4) Records of preventive maintenance shall be sufficient to demonstrate that failure to implement the Preventive Maintenance Plan did not cause or contribute to a violation of any limitation on emissions or potential to emit. To be relied upon subsequent to any such violation, these records may include, but are not limited to: work orders, parts inventories, and operator's standard operating procedures. Records of response steps taken shall indicate whether the response steps were performed in accordance with the Compliance Response Plan required by Section C - Compliance Monitoring Plan - Failure to take Response Steps, of this permit, and whether a deviation from a permit condition was reported. All records shall briefly describe what maintenance and response steps were taken and indicate who performed the tasks.
- (d) All record keeping requirements not already legally required shall be implemented when operation begins.

C.15 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 Data Section, Office of Air Quality
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

- (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 and ending on the last day of the reporting period.

C.16 Annual Notification [326 IAC 2-6.1-5(a)(5)]

- (a) Annual notification shall be submitted 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) Noncompliance with any condition must be specifically identified. If there are any permit conditions or requirements for which the source is not in compliance at any time during the year, the Permittee must provide a narrative description of how the source did or will achieve compliance and the date compliance was, or will be, achieved. The notification must be signed by an authorized individual.
- (c) The annual notice shall cover the time period from January 1 to December 31 of the previous year, and shall be submitted in the format attached no later than March 1 of each year to:

Compliance Branch, Office of Air Quality
Indiana Department of Environmental Management
100 North Senate Avenue
Indianapolis, IN 46204

- (d) 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

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SECTION D.1

FACILITY OPERATION CONDITIONS

Facility Description:

- (a) One (1) hard chrome electroplating line (identified as P-1), constructed in 1997, consisting of six (6) rectifiers each having a maximum capacity of 6,000 Amps, with emissions controlled using a composite mesh pad wet scrubber. This electroplating line has a maximum throughput capacity of 550 piston rods per hour. Emissions are exhausted through stack H300-A.
- (b) One (1) hard chrome electroplating line (identified as P-2), constructed in 1997, consisting of six (6) rectifiers each having a maximum capacity of 6,000 Amps, with emissions controlled using a composite mesh pad wet scrubber. This electroplating line has a maximum throughput capacity of 550 piston rods per hour. Emissions are exhausted through stack H200-A.
- (h) One (1) hard chrome electroplating line (identified as P-3), consisting of six (6) rectifiers each having a maximum capacity of 6,000 Amps, with emissions controlled using a composite mesh pad wet scrubber system. This electroplating line has a maximum throughput capacity of 1,000 piston rods per hour. Emissions are exhausted at stack H400-A.
- (i) One (1) hard chrome electroplating line, identified as P-4, to be constructed in 2005, consisting of seven (7) rectifiers with a maximum capacity of 6,000 Amperes and one (1) rectifier with a maximum capacity of 4,000 Amperes, controlled by a composite mesh pad wet scrubber system. This electroplating line has a maximum throughput capacity of 1,350 piston rods per hour and exhausts through stack H500-A.

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

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

- D.1.1 General Provisions Relating to HAPs [326 IAC 20-1-1][40 CFR Part 63, Subpart A]
The provisions of 40 CFR Part 63, Subpart A - General Provisions, which are incorporated by reference as 326 IAC 20-1-1, apply to the facilities described in this section except when otherwise specified in 40 CFR Part 63, Subpart N. The permittee shall comply with the requirements of this condition on and after the compliance date for the tanks.
- D.1.2 Chromium Electroplating and Anodizing NESHAP [326 IAC 20-8-1] [40 CFR Part 63, Subpart N]
The provisions of 40 CFR 63, Subpart N - National Emission Standards for Chromium Emissions From Hard and Decorative Chromium Electroplating and Chromium Anodizing Tanks, which are incorporated by reference as 326 IAC 20-8-1, apply to electroplating lines P-1, P-2, P-3, and P-4. A copy of this rule is attached. The Permittee shall comply with the requirements of this condition on and after the compliance date for each tank.
- D.1.3 Chromium Emissions Limitation [40 CFR 63.342(c)] [40 CFR 63.343(a)(1)&(2)] [326 IAC 20-8-1]
 - (a) The emission limitations in this condition apply during tank operation and during periods of startup and shutdown as these are routine occurrences for tanks subject to 326 IAC 20-8-1. The emission limitations do not apply during periods of malfunction.
 - (b) The hard chromium electroplating tanks on electroplating lines P-1 and P-2 are considered large, existing hard chromium electroplating operation. During tank operation, the Permittee shall control chromium emissions discharged to the atmosphere from the tanks by not allowing the concentration of total chromium in the exhaust gas stream discharged to the atmosphere to exceed 0.015 mg/dscm [6.6×10^{-6} gr/dscf].

- (c) The hard chromium electroplating tanks on electroplating lines P-3 and P-4 are considered a large, new hard chromium electroplating operation. During tank operation, the Permittee shall control chromium emissions discharged to the atmosphere from the tanks by not allowing the concentration of total chromium in the exhaust gas stream discharged to the atmosphere to exceed 0.015 mg/dscm [6.6×10^{-6} gr/dscf].

D.1.4 Work Practice Standards [40 CFR 63.342(f)] [326 IAC 20-8-1]

The following work practice standards apply to the electroplating lines P-1, P-2, P-3, and P-4:

- (a) At all times, including periods of startup, shutdown, malfunction and excess emissions, the Permittee shall operate and maintain the electroplating tanks on lines P-1, P-2, P-3, and P-4, including the composite mesh pad wet scrubbers, and any monitoring equipment, in a manner consistent with good air pollution control practices, consistent with the Operation and Maintenance Plan (OMP) required by Condition D.1.6.
- (b) Malfunctions and excess emissions shall be corrected as soon as practicable after their occurrence in accordance with the OMP required by Condition D.1.6.
- (c) These operation and maintenance requirements are enforceable independent of emissions limitations or other requirements in this section.
- (d) Determination of whether acceptable operation and maintenance procedures are being used will be based on information available to IDEM, OAQ, which may include, but is not limited to, monitoring results; review of the OMP, procedures, and records; and inspection of the source.
- (e) Based on the results of a determination made under paragraph (d) of this condition, IDEM, OAQ may require that the Permittee make changes to the OMP required by Condition D.1.6. Revisions may be required if IDEM, OAQ finds that the plan:
 - (1) Does not address a malfunction or period of excess emissions that has occurred;
 - (2) Fails to provide for the operation of the electroplating tanks on electroplating lines P-1, P-2, P-3, and P-4, the composite mesh pad wet scrubbers, and process monitoring equipment during a malfunction or period of excess emissions in a manner consistent with good air pollution control practices; or
 - (3) Does not provide adequate procedures for correcting malfunctioning process equipment, the composite mesh pad wet scrubbers on electroplating lines P-1 and P-2 and P-3, monitoring equipment, or other causes of excess emissions as quickly as practicable.

For electroplating tanks on electroplating lines P-3 and P-4, the Permittee shall comply with the requirements of this condition on and after the start-up date of the electroplating tanks.

The work practice standards that address operation and maintenance must be followed during malfunctions and periods of excess emissions.

D.1.5 Preventive Maintenance Plan [326 IAC 1-6-3]

A Preventive Maintenance Plan (PMP), in accordance with Section B-Preventive Maintenance Plan, of this permit, is required for electroplating lines P-1, P-2, P-3, and P-4 and the control devices.

D.1.6 Operation and Maintenance Plan [40 CFR 63.342(f)(3)] [326 IAC 20-8-1]

- (a) The Permittee shall prepare an Operation and Maintenance Plan (OMP) to be implemented no later than the startup date of electroplating tanks on electroplating lines P-1, P-2, P-3, and P-4. The OMP shall specify the operation and maintenance criteria for the tanks, the air pollution control devices, and monitoring equipment and shall include the following elements:
- (1) For the packed-bed scrubber composite mesh-pad system (PBS/CMP):
 - (A) Quarterly visual inspections of the device to ensure there is proper drainage, no chromic acid buildup on the pads, and no evidence of chemical attack on the structural integrity of the device.
 - (B) Quarterly visual inspection of the back portion of the mesh pad closest to the fan to ensure there is no breakthrough of chromic acid mist.
 - (C) Quarterly visual inspection of the duct work from the tank to the control device to ensure there are no leaks.
 - (D) Perform washdown of the composite mesh-pads in accordance with manufacturers recommendations.
 - (2) A standardized checklist to document the operation and maintenance criteria for tanks on electroplating lines P-1, P-2, P-3, and P-4, the air pollution control device, the add-on air pollution control device and the monitoring equipment.
 - (3) Procedures to be followed to ensure that equipment or process malfunctions due to poor maintenance or other preventable conditions or periods of excess emissions as indicated by monitoring data do not occur.
 - (4) A systematic procedure for identifying malfunctions and periods of excess emissions of tanks on electroplating lines P-1, P-2, P-3, and P-4, the air pollution control device, the add-on air pollution control device and monitoring equipment; and for implementing corrective actions to address such malfunctions and periods of excess emissions.
- (b) The Permittee may use applicable standard operating procedures (SOP) manuals, Occupational Safety and Health Administration (OSHA) plans, or other existing plans such as the PMP required in Condition D.1.5, as the OMP, provided the alternative plans meet the above listed criteria in Condition D.1.6(a).
- (c) If the OMP fails to address or inadequately addresses an event that meets the characteristics of a malfunction or period of excess emissions at the time the plan is initially developed, the Permittee shall revise the OMP within forty-five (45) days after such an event occurs. The revised plan shall include procedures for operating and maintaining tanks on electroplating lines P-1, P-2, P-3, and P-4, the air pollution control device, the add-on air pollution control device and the monitoring equipment, during similar malfunction or period of excess emissions events, and a program for corrective action for such events.
- (d) If actions taken by the Permittee during periods of malfunction or period of excess emissions are inconsistent with the procedures specified in the OMP, the Permittee shall record the actions taken for that event and shall report by phone such actions within two (2) working days after commencing actions inconsistent with the plan. This report shall be

followed by a letter within seven (7) working days after the end of the event, unless the Permittee makes alternative reporting arrangements, in advance, with IDEM, OAQ.

- (e) The Permittee shall keep the written OMP on record after it is developed to be made available, upon request, by IDEM, OAQ for the life of tanks on electroplating lines P-1, P-2, P-3, and P-4, or until the tank is no longer subject to the provisions of 40 CFR 63.340. In addition, if the OMP is revised, the Permittee shall keep previous versions of the OMPs on record to be made available for inspection, upon request by IDEM, OAQ for a period of five (5) years after each revision to the plan.

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

D.1.7 Performance Testing [326 IAC 2-1.1-11] [40 CFR 63.343(b)(2)] [40 CFR 63.7] [40 CFR 63.344] [326 IAC 20-8-1]

- (a) A performance test demonstrating initial compliance for tanks in electroplating lines P-1 and P-2 were performed on March 18, 1997 and September 9, 1997, respectively.

During the initial performance tests, it was determined that the pressure drop across the composite mesh pad system on electroplating line P-1 was between 1.95 inches and 2.95 inches of water and the pressure drop across the composite mesh pad system on electroplating line P-2 was between 3.20 inches and 4.20 inches of water. As approved by U.S. EPA on February 6, 1998, the pressure drops were revised to between 1.65 inches and 3.65 inches of water for the composite mesh pad on electroplating line P-1 and between 3.00 inches and 5.00 inches of water for the composite mesh pad on electroplating line P-2.

- (b) The Permittee is not required to further test tanks in electroplating lines P-1 and P-2 by this permit. However, the IDEM may require testing when necessary to determine if the tanks are in compliance. If testing is required by the IDEM, compliance with the limits specified in Condition D.1.3 shall be determined by a performance test conducted in accordance with 40 CFR 63.344 and Section C - Performance Testing.
- (c) The Permittee is required to conduct an initial performance test within 180 days after startup of tanks in electroplating line P-3 using the procedures and methods in 40 CFR 63.344 and 40 CFR 63.7 and in accordance with Section C - Performance Testing.
- (d) The Permittee is required to conduct an initial performance test within 180 days after startup of tanks in electroplating line P-4 using the procedures and methods in 40 CFR 63.344 and 40 CFR 63.7 and in accordance with Section C - Performance Testing.
- (e) Any change, modification, or reconstruction of the tanks in electroplating lines P-1, P-2, P-3, and P-4, the composite mesh pads, wet scrubber, or monitoring equipment may require additional performance testing conducted in accordance with 40 CFR 63.344 and Section C - Performance Testing.

D.1.8 Establishing Site-Specific Operating Parameter Values [40 CFR 63.343(c)] [40 CFR 63.344(d)] [326 IAC 20-8-1]

During the initial performance test for electroplating lines P-3 and P-4 and pursuant to 40 CFR 63.343(c)(1)(i) and 40 CFR 63.343(c)(3), when using a packed bed scrubber in conjunction with a composite mesh-pad system to comply with the limit specified in Condition D.1.3, the Permittee shall determine the outlet chromium concentration using the test methods in 40 CFR 63.344(c) and shall establish as a site-specific operating parameter the pressure drop across the system, setting the value that corresponds to compliance with the applicable emission limitation using the procedures in 40 CFR 63.344(d)(4) and (5). The Permittee may conduct multiple performance tests to establish a range of compliant pressure drop values, or may set as the compliant value

the average pressure drop measured over the three test runs of one performance test, and accept " 2 inch of water column from this value as the compliant range.

Compliance Monitoring Requirements

D.1.9 Monitoring to Demonstrate Continuous Compliance [326 IAC 2-6.1-5(a)(2)] [40 CFR 63.343(c)] [326 IAC 20-8-1]

- (a) Pursuant to 40 CFR 63.343(c)(3) and 40 CFR 63.343(c)(1)(ii), when using a packed bed scrubber in conjunction with a composite mesh-pad system to comply with the limits specified in Condition D.1.3, the Permittee shall monitor and record the pressure drop across the composite mesh-pad systems during tank operation once each day that the hard chromium electroplating tanks in electroplating lines P-1, P-2, and P-3 are operating. To be in compliance with the standards, the composite mesh-pad system shall be operated within " 2 inch of water column of the pressure drop value established during the initial performance test, or within the range of compliant values for pressure drop established during multiple performance tests.
- (b) Tank operation or operating time is defined as that time when a part is in the tank and the rectifier is turned on. If the amount of time that no part is in the tank is fifteen minutes or longer, that time is not considered operating time. Likewise, if the amount of time between placing parts in the tank (i.e., when no part is in the tank) is less than fifteen minutes, that time between plating the two parts is considered operating time.

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

D.1.10 Record Keeping Requirements [40 CFR 63.346] [326 IAC 20-8-1]

The Permittee shall maintain records to document compliance with Conditions D.1.3, D.1.4 and D.1.6 using the forms provided with this permit. These records shall be maintained in accordance with Section C - General Record Keeping Requirements of this permit and include a minimum of the following:

- (a) Inspection records for the composite mesh pads, and monitoring equipment to document that the inspection and maintenance required by Conditions D.1.7 and D.1.9 have taken place. The record can take the form of a checklist and should identify the following:
- (1) The device inspected;
 - (2) The date of inspection;
 - (3) A brief description of the working condition of the device during the inspection, including any deficiencies found; and
 - (4) Any actions taken to correct deficiencies found during the inspection, including the date(s) such actions were taken.
- (b) Records of all maintenance performed on tanks in electroplating lines P-1, P-2, P-3, and P-4, the composite mesh pads, and monitoring equipment.
- (c) Records of the occurrence, duration, and cause (if known) of each malfunction of tanks in electroplating lines P-1, P-2, P-3, and P-4, the composite mesh pad, and monitoring equipment.
- (d) Records of the occurrence, duration, and cause (if known) of each period of excess emissions of tanks in electroplating lines P-1, P-2, P-3, and P-4, the composite mesh pads, and monitoring equipment as indicated by monitoring data collected in accordance with this condition.

- (e) Records of actions taken during periods of malfunction or excess emissions when such actions are inconsistent with the OMP.
- (f) Other records, which may take the form of checklists, necessary to demonstrate consistency with the provisions of the OMP.
- (g) Test reports documenting results of all performance tests.
- (h) All measurements as may be necessary to determine the conditions of performance tests, including measurements necessary to determine compliance.
- (i) Records of monitoring data required by 40 CFR 63.343(c) that are used to demonstrate compliance with the standard including the date and time the data are collected.
- (j) The total process operating time, as defined in Condition D.1.9(b), of each tank, during the reporting period.
- (k) Records of the actual cumulative rectifier capacity of each hard chromium electroplating tank expended during each month of the reporting period, and the total capacity expended to date for a reporting period.
- (l) All documentation supporting the notifications and reports required by 40 CFR 63.9 and 63.10 (Subpart A, General Provisions) and by Condition D.1.11.

D.1.11 Reporting Requirements [326 IAC 3-6-4(b)] [40 CFR 63.344(a), 63.345 and 63.347]
[326 IAC 20-8-1]

The notifications and reports required in this section shall be submitted to IDEM, OAQ using the address specified in Section C - General Reporting Requirements.

- (a) Notifications:
 - (1) Initial Notifications
The Permittee shall submit an Initial Notification for each new or reconstructed tank as follows:
 - (A) A notification of the actual date when construction or reconstruction of tanks in electroplating line P-4 commenced shall be submitted no later than thirty (30) days after such date.
 - (B) A notification of the actual date of startup of tanks in electroplating line P-4 shall be submitted within thirty (30) days after such date.
 - (2) Notification of Performance Test
The Permittee shall notify IDEM, OAQ in writing of their intention to conduct a performance test for electroplating line P-4 at least sixty (60) days before the test is scheduled to begin.
 - (A) Pursuant to Section C - Performance Testing, a test protocol shall be submitted no later than thirty-five (35) days prior to the intended test date.
 - (B) In the event the Permittee is unable to conduct the performance test as scheduled, pursuant to 40 CFR 63.7(b)(2) the Permittee shall notify IDEM, OAQ within five (5) days prior to the scheduled performance test date and specify the date when the performance test is rescheduled. Pursuant to Section C - Performance Testing, the rescheduled

performance test date shall be no sooner than fourteen (14) days after IDEM, OAQ is notified in writing of the need to reschedule.

- (3) A Notification of Compliance Status (NCS) is required each time that the facility becomes subject to the requirements of 40 CFR Part 63 Subpart N.
 - (A) The NCS shall be submitted to IDEM, OAQ, and shall list, for each tank, the information identified in 40 CFR 63.347(e)(2).
 - (B) The NCS for tanks in electroplating line P-3 shall be submitted to IDEM, OAQ no later than forty-five (45) days following completion of the compliance demonstration pursuant to Section C - Performance Testing.
- (4) Notification of Construction or Reconstruction
Pursuant to 40 CFR 63.345(b)(1), the Permittee may not construct a new tank subject to 40 CFR 63, Subpart N (including non-affected tanks defined in 40 CFR 63.344(e)) without submitting a Notification of Construction or Reconstruction (NCR) to IDEM, OAQ. In addition, the Permittee may not change, modify, or reconstruct tanks in electroplating lines P-1, P-2, P-3, and P-4 without submitting a Notification of Construction or Reconstruction (NCR) to IDEM, OAQ.
 - (A) The NCR shall contain the information identified in 40 CFR 63.345(b) (2) and (3).
 - (B) A change, modification, or reconstruction of this facility includes any change in the air pollution control techniques, the addition of add-on control devices, or the construction of duct work for the purpose of controlling both existing tanks and non-affected facilities by a common control technique or device [i.e., the addition of duct work to the CMP system].
 - (C) A complete application to construct new chromium electroplating or chromium anodizing tanks serves as this notification. Likewise, the complete application to modify or reconstruct electroplating lines P-1, P-2 and P-3 serves as this notification.
 - (D) Pursuant to 326 IAC 2-1.1-2(a), permission must be received from IDEM, OAQ before construction, modification, or reconstruction may commence.
- (b) Performance Test Results
The Permittee shall document results from the initial performance test for electroplating line P-4 and any future performance tests in a complete test report that contains the information required in 40 CFR 344(a).

The Permittee shall submit reports of performance test results as part of the Notification of Compliance Status, described in 40 CFR 63.347(e), no later than forty-five (45) days following the completion of the performance test.
- (c) Ongoing Compliance Status Report
The Permittee shall prepare summary reports to document the ongoing compliance status of electroplating lines P-1, P-2, P-3, and P-4, using the Ongoing Compliance Status Report form provided with this permit. This report shall contain the information specified in 40 CFR 63.347(g)(3).

Because electroplating lines P-1, P-2, P-3, and P-4, located at site that is an area source of hazardous air pollutants (HAPs), the Ongoing Compliance Status Report shall be retained on site and made available to IDEM, OAQ upon request.

- (1) The Ongoing Compliance Status Report shall be completed according to the following schedule except as provided in paragraphs (c)(2).
 - (A) The first report shall cover the period from the issuance date of this permit to December 31 of the year in which the permit is issued.
 - (B) Following the first year of reporting, the report shall be completed on a calendar year basis with the reporting period covering from January 1 to December 31.
- (2) If either of the following conditions are met, semiannual reports shall be prepared and submitted to IDEM, OAQ:
 - (A) The total duration of excess emissions (as indicated by the monitoring data collected by the Permittee in accordance with 40 CFR 63.343(c)) is one percent (1%) or greater of the total operating time as defined in Condition D.1.9(b) for the reporting period; or
 - (B) The total duration of malfunctions of the add-on air pollution control device and monitoring equipment is five percent (5%) or greater of the total operating time as defined in Condition D.1.9(b).

Once the Permittee reports an exceedance as defined above, Ongoing Compliance Status Reports shall be submitted semiannually until a request to reduce reporting frequency in accordance with 40 CFR 63.347(g)(2) is approved.

- (3) IDEM, OAQ may determine on a case-by-case basis that the summary report shall be completed more frequently and submitted, or that the annual report shall be submitted instead of being retained on site, if these measures are necessary to accurately assess the compliance status of the source.

SECTION D.2

EMISSIONS UNIT OPERATION CONDITIONS

Facility Description:

- (c) Four (4) spray paint booths, identified as FA-1, FA-2, FA-3 and FA-4, each using an electrostatic air atomization spray gun and with particulate matter emissions controlled using dry filters. The maximum throughput capacity for each spray booth is as follows:
- (1) FA-1 has a maximum throughput capacity of 206 metal parts per hour, exhausting at stacks E300-PB and E300-TU;
 - (2) FA-2 has a maximum throughput capacity of 240 metal parts per hour, exhausting at stack J400-TU;
 - (3) FA-3 has a maximum throughput capacity of 240 metal parts per hour, exhausting at stack K220-TU; and
 - (4) FA-4 has a maximum throughput capacity of 240 metal parts per hour, exhausting at stack L220-TU.
- (d) Two (2) dip coating lines, identified as E-Coat 1 and E-Coat 2, having maximum throughput capacities of 550 outer shells per hour and 600 outer shells per hour, respectively.
- (j) One (1) dip coating line, identified as E-Coat 3, to be constructed in 2005, with a maximum throughput rate of 1,200 parts per hour, and exhausting through stacks Q300-23A through Q300-23C.

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

Emission Limitations and Standards

D.2.1 Volatile Organic Compounds (VOC) [326 IAC 8-2-9]

Pursuant to 326 IAC 8-2-9 (Miscellaneous Metal Coating Operations), the volatile organic compound (VOC) content of coating applied in the spray paint operations (FA-1, FA-2, FA-3, and FA-4) and dip coating operations (E-Coat 1 and E-Coat 2) shall be limited to 3.5 pounds of VOCs per gallon of coating less water, as delivered to the applicator for any calendar day, for forced warm air (less than 90EC or 194 EF) dried coatings.

Solvent sprayed from application equipment during cleanup or color changes shall be directed into containers. Such containers shall be closed as soon as such solvent spraying is complete, and the waste solvent shall be disposed of in such a manner that evaporation is minimized.

D.2.2 Particulate Matter (PM) [326 IAC 6-3-2(c)]

The PM emissions from the spray paint operations (FA-1, FA-2, FA-3 and FA-4) shall not exceed the pound per hour emission rate established as E in the following formula:

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

$$E = 4.10 P^{0.67}$$

where E = rate of emission in pounds per hour; and
P = process weight rate in tons per hour

D.2.3 Hazardous Air Pollutants (HAPs)

The potential to emit hazardous air pollutants (HAPs) from the spray painting booths and dip coating lines is less than ten (10) tons per year for any single HAP and less than twenty-five (25) tons per year for any combination of HAPs. Any changes to the spray painting or dip coating operations that would increase the potential to emit for the entire source to greater than ten (10) tons per year for a single HAP or twenty-five (25) tons per year for any combination of HAPs shall require prior approval from IDEM, OAQ.

D.2.4 Preventive Maintenance Plan [326 IAC 1-6-3]

A Preventive Maintenance Plan, in accordance with Section C - Preventive Maintenance Plan, of this permit, is required for the painting operations and any control devices.

Compliance Determination Requirements

D.2.5 Testing Requirements [326 IAC 2-1.1-11]

The Permittee is not required to test this emissions unit by this permit. However, IDEM may require compliance testing when necessary to determine if the emissions unit is in compliance. If testing is required by IDEM, compliance with the PM limit specified in Condition D.2.2 and the VOC limit specified in Condition D.2.1 shall be determined by a performance test conducted in accordance with Section C - Performance Testing.

D.2.6 Volatile Organic Compounds (VOC)

Compliance with the VOC content limitation contained in Condition D.2.1 shall be determined pursuant to 326 IAC 8-1-4(a)(3) and 326 IAC 8-1-2(a) using formulation data supplied by the coating manufacturer. IDEM, OAQ, reserves the authority to determine compliance using Method 24 in conjunction with the analytical procedures specified in 326 IAC 8-1-4.

D.2.7 Particulate Matter (PM)

The dry filters used for PM control shall be in operation at all times when the spray paint operations (FA-1, FA-2, FA-3 and FA-4) are in operation.

Compliance Monitoring Requirements [326 IAC 2-5.1-3(e)(2)] [326 IAC 2-6.1-5(a)(2)]

D.2.8 Monitoring

- (a) Daily inspections shall be performed to verify the placement, integrity and particle loading of the filters. To monitor the performance of the dry filters, weekly observations shall be made of the overspray from the surface coating booth stacks (E300-PB, E300-TU, J400-TU, K220-TU, and L220-TU) while one or more of the booths are in operation. The Compliance Response Plan shall be followed whenever a condition exists which should result in a response step. Failure to take response steps in accordance with Section C - Compliance Monitoring Plan - Failure to Take Response Steps, shall be considered a violation of this permit.
- (b) Monthly inspections shall be performed of the coating emissions from the stack and the presence of overspray on the rooftops and the nearby ground. The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when a noticeable change in overspray emission, or evidence of overspray emission is observed. The Compliance Response Plan shall be followed whenever a condition exists which should result in a response step. Failure to take response steps in accordance with Section C - Compliance Monitoring Plan - Failure to Take Response Steps, shall be considered a violation of this permit.
- (c) Additional inspections and preventive measures shall be performed as prescribed in the Preventive Maintenance Plan.

Record Keeping and Reporting Requirements [326 IAC 2-5.1-3(e)(2)] [326 IAC 2-6.1-5(a)(2)]

D.2.9 Record Keeping Requirements

- (a) To document compliance with Conditions D.2.1 and D.2.3, the Permittee shall maintain records in accordance with (1) through (5) below. Records maintained for (1) through (5) shall be taken monthly and shall be complete and sufficient to establish compliance with the VOC content limit established in Condition D.2.1.
 - (1) The VOC and HAP content of each coating material used. Records shall include purchase orders, invoices, and material safety data sheets (MSDS) necessary to verify the type and amount used.
 - (2) A log of the dates of use;
 - (3) The cleanup solvent usage for each month;
 - (4) The total VOC and HAP usage for each month; and
 - (5) The weight of VOCs and HAPs emitted for each compliance period.
- (b) To document compliance with Condition D.2.8, the Permittee shall maintain a log of weekly overspray observations, daily and monthly inspections, and those additional inspections prescribed by the Preventive Maintenance Plan.
- (c) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

SECTION D.3

EMISSIONS UNIT OPERATION CONDITIONS

Facility Description:

- (e) Six (6) natural gas-fired boilers:
- (1) E-Coat 2 Process Boiler, constructed in June 1997, having a maximum heat input capacity of 3.5 MMBtu/hour, exhausting at stack P 100-21G;
 - (2) Space Heating Boiler No. 1, constructed in June 1988, having a maximum heat input capacity of 10.461 MMBtu/hour, exhausting at stack L85090;
 - (3) Space Heating Boiler No. 2, constructed in June 1988, having a maximum heat input capacity of 10.461 MMBtu/hour, exhausting at stack L-85091;
 - (4) E-Coat 1 Process Boiler No. 1 (identified as EC1-J300-22A), constructed in June 1991 having a maximum heat input capacity of 1.69 MMBtu/hour, exhausting at stack J300-22A;
 - (5) E-Coat 1 Process Boiler No. 2 (identified as EC1-J300-22B), constructed in June 1991, having a maximum heat input capacity of 1.69 MMBtu/hour, exhausting at stack J300-22B; and
 - (6) One (1) E-Coat 3 process boiler, identified as EC3-Q300-23E, to be constructed in 2005, with a maximum heat input capacity of 3.0 MMBtu/hr, and exhausting through stack Q300-23E.

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

Emission Limitations and Standards

D.3.1 Particulate Matter Limitation (PM) [326 IAC 6-2-4]

- (a) Pursuant to 326 IAC 6-2-4 (Particulate emission limitations for sources of indirect heating: Emission Limitations for Facilities Specified in 326 IAC 6-2-1 (d)), particulate emissions from Space Heating Boilers #1 and #2 shall in no case exceed 0.49 pounds of particulate matter per million British thermal units heat input.
- (b) Pursuant to 326 IAC 6-2-4 (Particulate emission limitations for sources of indirect heating: Emission Limitations for Facilities Specified in 326 IAC 6-2-1 (d)), particulate emissions from E-Coat 1 process boilers #1 and #2 shall in no case exceed 0.48 pounds of particulate matter per million British thermal units heat input.
- (c) Pursuant to 326 IAC 6-2-4 (Particulate emission limitations for sources of indirect heating: Emission Limitations for Facilities Specified in 326 IAC 6-2-1 (d)), particulate emissions from E-Coat 2 process boiler shall in no case exceed 0.46 pounds of particulate matter per million British thermal units heat input.
- (d) Pursuant to 326 IAC 6-2-4 (Particulate emission limitations for sources of indirect heating: Emission Limitations for Facilities Specified in 326 IAC 6-2-1 (d)), particulate emissions from E-Coat 3 process boiler shall in no case exceed 0.45 pounds of particulate matter per million British thermal units heat input.

D.3.2 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for these boilers.

Compliance Determination Requirements

D.3.3 Testing Requirements [326 IAC 2-1.1-11]

The Permittee is not required to test this emissions unit by this permit. However, IDEM may require compliance testing when necessary to determine if the emissions unit is in compliance. If testing is required by IDEM, compliance with the PM limit specified in Condition D.3.1 shall be determined by a performance test conducted in accordance with Section C - Performance Testing.

SECTION D.4

FACILITY OPERATION CONDITIONS

Facility Description:

- (f) Twelve (12) natural gas-fired heaters and ovens:
- (1) E-Coat 1 Cure Oven (identified as EC1-J300-22D) having a maximum heat input capacity of 1.59 MMBtu/hour, exhausting at stack J300-22D;
 - (2) E-Coat 2 Cure Oven (identified as EC2-P100-21D) having a maximum heat input capacity of 1.59 MMBtu/hour, exhausting at stacks P100-21D, P100-21E and P100-21F;
 - (3) Strut Line FA1 Dry-off Oven (identified as FA1-E300-OV) having a maximum heat input capacity of 0.30 MMBtu/hour, exhausting at stack E300-OV;
 - (4) Strut Line FA1 Cure Oven (identified as FA1-E400-OV) having a maximum heat input capacity of 0.30 MMBtu/hour, exhausting at stack E400-OV;
 - (5) Strut Line FA2 Cure Oven (identified as FA2-J400-OV) having a maximum heat input capacity of 0.88 MMBtu/hour, exhausting at stack J400-OV;
 - (6) Strut Line FA3 Hot Water Heater (identified as FA3-K220-G) having a maximum heat input capacity of 0.88 MMBtu/hour, exhausting at stack K220-G;
 - (7) Strut Line FA3 Cure Oven (identified as FA3-K220-OV) having a maximum heat input capacity 0.30 MMBtu/hour, exhausting at stack K220-OV;
 - (8) Strut Line FA4 Hot Water Washer (identified as FA4-L220-G) having a maximum heat input capacity of 0.88 MMBtu/hour, exhausting at stack L220-G;
 - (9) Strut Line FA4 Cure Oven (identified as FA4-L220-OV) having a maximum heat input capacity of 0.30 MMBtu/hour, exhausting at stack L220-OV;
 - (10) Strut Line FA5 Washer Heater (identified as FA5-M230-G) having a maximum heat input capacity of 0.80 MMBtu/hour, exhausting at stack M230-G;
 - (11) Strut Line FA6 Washer Heater (identified as FA6-N210-G) having a maximum heat input capacity of 0.80 MMBtu/hour, exhausting at stack N210-G; and
 - (12) One (1) E-Coat 3 cure oven, identified as EC3-Q300-23D, to be constructed in 2005, with a maximum heat input capacity of 2.5 MMBtu/hr, and exhausting through stack Q300-23D.

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

Emission Limitations and Standards

There are no regulations specifically applicable to these emission units.

SECTION D.5

FACILITY OPERATION CONDITIONS

Facility Description:

- (g) One (1) natural gas-fired burn-off oven (identified as BO-OV) having a maximum heat input capacity of 0.80 MMBtu/hour, with emissions controlled using an afterburner, exhausting at stack BO-OV.

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

Emission Limitations and Standards

D.5.1 Incinerator Requirements [326 IAC 4-2]

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

- (a) Consist of primary and secondary chambers or the equivalent;
- (b) Be equipped with a primary burner unless burning wood products;
- (c) Comply with 326 IAC 5-1 and 326 IAC 2;
- (d) Be maintained properly as specified by the manufacturer and approved by the commissioner;
- (e) Be operated according to the manufacturer's recommendations and only burn waste approved by the commissioner;
- (f) Comply with other state and/or local rules or ordinances regarding installation and operation of incinerators;
- (g) Be operated so that emissions of hazardous material including but not limited to viable pathogenic bacteria, dangerous chemicals or gases, or noxious odors are prevented;
- (h) Not emit particulate matter in excess of five-tenths (0.5) pounds of particulate matter per one thousand (1,000) pounds of dry exhaust gas at standard condition corrected to fifty percent (50%) excess air; and
- (i) Not create a nuisance or fire hazard.

If any of the above result, the burning shall be terminated immediately.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
Compliance 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:	KYB Manufacturing North America, Inc.
Address:	2625 North Morton
City:	Franklin, Indiana 46131
Phone #:	317-736-7774
MSOP #:	081-12622-00015

I hereby certify that KYB Manufacturing North America, Inc. is

still in operation.

no longer in operation.

I hereby certify that KYB Manufacturing North America, Inc. is

in compliance with the requirements of MSOP 081-12622-00015.

not in compliance with the requirements of MSOP 081-12622-00015.

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:



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

Source Background and Description

Source Name:	KYB Manufacturing North America, Inc.
Source Location:	2625 North Morton, Franklin, Indiana 46131
County:	Johnson
SIC Code:	3710
Operation Permit No.:	081-12622-00015
Operation Permit Issuance Date:	December 21, 2001
Minor Permit Revision No.:	081-20410-00015
Permit Reviewer:	ERG/YC

The Office of Air Quality (OAQ) has reviewed a revision application from KYB Manufacturing North America, Inc. relating to the construction and operation of the following emission units:

- (a) One (1) hard chrome electroplating line, identified as P-4, to be constructed in 2005, consisting of seven (7) rectifiers with a maximum capacity of 6,000 Amperes and one (1) rectifier with a maximum capacity of 4,000 Amperes, controlled by a composite mesh pad wet scrubber system. This electroplating line has a maximum throughput capacity of 1,350 piston rods per hour and exhausts through stack H500-A.
- (b) One (1) dip coating line, identified as E-Coat 3, to be constructed in 2005, with a maximum throughput rate of 1,200 parts per hour, and exhausting through stacks Q300-23A through Q300-23C.
- (c) One (1) E-Coat 3 cure oven, identified as EC3-Q300-23D, to be constructed in 2005, using natural gas as fuel, with a maximum heat input capacity of 2.5 MMBtu/hr, and exhausting through stack Q300-23D.
- (d) One (1) E-Coat 3 process boiler, identified as EC3-Q300-23E, to be constructed in 2005, using natural gas as fuel, with a maximum heat input capacity of 3.0 MMBtu/hr, and exhausting through stack Q300-23E.

History

KYB Manufacturing North America is an existing hard chrome electroplating plant for automobile parts and was issued a MSOP (#081-12622-00015) on December 21, 2001. The source requested to construct and operate a new electroplating line (P-4) and a new dip coating line (E-Coat 3) with a 2.5 MMBtu/hr natural gas fired cure oven and a 3.0 MMBtu/hr natural gas fired process boiler. This existing source is subject to the requirements of NESHAP for Hard and Decorative Chromium Electroplating and Chromium Anodizing Tanks (40 CFR 63, Subpart N). The Permittee also requested Conditions D.1.8 and D.1.9 in their MSOP be revised to reflect the most recent version of this NESHAP, which was revised on July 19, 2004.

In addition, Johnson County has been redesignated as a nonattainment area for the 8 hour ozone standard, effective June 15, 2004. Since the potential to emit VOC and NOx from this source is each less than 100 tons/yr after this revision, this source is considered a minor source under Emission Offset rules (326 IAC 2-3). Therefore, the general information in Condition A.1 has been revised to reflect the changes above.

Enforcement Issue

There are no enforcement actions pending.

Stack Summary

Stack ID	Operation	Height (feet)	Diameter (feet)	Flow Rate (acfm)	Temperature (°F)
H500-A	Electroplating Line P-4	40	1.93	16,500	85-110
Q300-23A	E-Coating 3	40	1.5	3,000	120
Q300-23B	E-Coating 3	40	1.5	3,000	85
Q300-23C	E-Coating 3	40	2.0	4,875	85
Q300-23D	Cure Oven	40	1.0	4,800	150
Q300-24E	Process Boiler	40	1.0	4,800	150

Recommendation

The staff recommends to the Commissioner that the construction and operation be approved. This recommendation is based on the following facts and conditions:

Unless otherwise stated, information used in this review was derived from the application and additional information submitted by the applicant.

A complete application for the purposes of this review was received on November 24, 2004. Additional information was received on December 20, 2004, January 26, 2005, and March 3, 2005.

Emission Calculations

See Appendix A of this document for detailed emissions calculations (pages 1 through 4).

Potential To Emit of the Revision

Pursuant to 326 IAC 2-1.1-1(16), Potential to Emit is defined as “the maximum capacity of a stationary source or emissions unit to emit any air pollutant under its physical and operational design. Any physical or operational limitation on the capacity of a source to emit an air pollutant, including air pollution control equipment and restrictions on hours of operation or type or amount of material combusted, stored, or processed shall be treated as part of its design if the limitation is enforceable by the U. S. EPA, the department, or the appropriate local air pollution control agency.”

This table reflects the PTE before controls. Control equipment is not considered federally enforceable until it has been required in a federally enforceable permit.

Pollutant	Potential To Emit (tons/year)
PM	7.38
PM10	7.38

Pollutant	Potential To Emit (tons/year)
SO ₂	0.01
VOC	0.59
CO	2.02
NO _x	2.41

HAP's	Potential To Emit (tons/year)
Chromium Compounds	3.45
TOTAL	3.45

Justification for Revision

This revision is being performed as a minor permit revision because (1) the potential to emit PM/PM10 is greater than 5 tons/yr and less than 25 tons/yr, pursuant to 326 IAC 2-6.1-6(g)(4); and (2) the proposed electroplating line P-4 is subject to the requirements of NESHAP, Subpart N, which is the most stringent applicable requirement for this unit, pursuant to 326 IAC 2-6.1-6(g)(6).

Potential to Emit After Revision

The table below summarizes the total potential to emit, reflecting all limits, of the significant emission units after control. The control equipment is considered federally enforceable only after issuance of this Permit Revision.

Process/facility	Potential to Emit (tons/year)						
	PM	PM-10	SO ₂	VOC	CO	NO _x	HAPs
Electroplating Line P-4*	7.20	7.20	-	-	-	-	3.45 (Cr)
Dip Coating Line E-Coat 3	-	-	-	0.46	-	-	-
NG Fired Curing Oven and Process Boiler for E-Coat 3	0.18	0.18	0.01	0.13	2.02	2.41	Negligible
PTE of this Revision	7.38	7.38	0.01	0.59	2.02	2.41	3.45 (Cr)
PTE of the Existing Units **	19.1	19.1	0.10	10.6	13.7	16.7	5.89 for a single HAP (Cr) and 9.89 for total HAPs
Total PTE of the Entire Source after this Revision	26.5	26.5	0.11	11.2	15.7	19.1	9.34 for a single HAP (Cr) and 13.3 for total HAPs
Title V Major Source Thresholds	NA	100	100	100	100	100	10 for a single HAP and 25 for total HAPs.

Note: (*) This is the PTE before control.
 (**) The PTE of the existing units is from the Technical Support Document (TSD) for MSOP #081-12622-00015, issued on December 21, 2001.

After adding the proposed emission units, the potential to emit of the criteria pollutants from the entire source is less than the Title V major source thresholds. Therefore, the requirements of 326 IAC 2-7 are not applicable to this source.

County Attainment Status

The source is located in Johnson County.

Pollutant	Status
PM10	Attainment
SO ₂	Attainment
NO ₂	Attainment
1-hour Ozone	Attainment
8-hour Ozone	Basic Nonattainment
CO	Attainment
Lead	Attainment

- (a) Volatile organic compounds (VOC) and Nitrogen Oxides (NOx) are regulated under the Clean Air Act (CAA) for the purposes of attaining and maintaining the National Ambient Air Quality Standards (NAAQS) for ozone. Therefore, VOC and NOx emissions are considered when evaluating the rule applicability relating to ozone. Johnson County has been designated as nonattainment for the 8-hour ozone standard. Therefore, VOC emissions and NOx were reviewed pursuant to the requirements for Emission Offset, 326 IAC 2-3.
- (b) Johnson County has been classified as attainment or unclassifiable in Indiana for all other criteria pollutants. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.
- (c) Fugitive Emissions
Since this type of operation is not in one of the 28 listed source categories under 326 IAC 2-2 and since there are no applicable New Source Performance Standards that were in effect on August 7, 1980, the fugitive particulate matter (PM) and volatile organic compound (VOC) emissions are not counted toward determination of PSD and Nonattainment New Source Review applicability.

Federal Rule Applicability

- (a) There are no New Source Performance Standards (NSPS)(326 IAC 12 and 40 CFR Part 60) applicable to this revision.
- (b) The proposed boiler for dip coating line E-Coat 3 has a maximum heat input capacity less than 10 MMBtu/hr. Therefore, the New Source Performance Standards for Small Industrial - Commercial - Institutional Steam Generating Units (40 CFR 60.40c-48c, Subpart Dc) are not applicable to this boiler.
- (c) There are no National Emission Standards for Hazardous Air Pollutants (NESHAPs)(326 IAC 14 and 20, and 40 CFR Part 61 and 63) applicable to this revision.
- (d) This existing chrome electroplating plant is subject to the National Emission Standards for Hazardous Air Pollutants - Chromium Emissions from Hard and Decorative Chromium Electroplating and Chromium Anodizing Tanks (326 IAC 20, 40 CFR 63.340-348, Subpart N). Therefore, the proposed hard chrome electroplating line P-4 is subject to this Subpart.

According to the definition in 40 CFR 63.341, the maximum cumulative potential rectifiers of the electroplating line P-4 is $46,000 \text{ amp} \times 8400 \text{ hr/yr} \times 0.7 = 270,480,000 \text{ amp-hr/yr}$. Therefore, the electroplating line P-4 is considered a large and new affected unit under this subpart and shall comply with the requirements in this subpart upon the start-up of this unit. The applicable requirements in this NESHAP for the new electroplating line P-4 are listed as follows:

- (1) **Emission Limitations:**

During tank operation, the Permittee shall control chromium emissions discharged to the atmosphere from the tanks of the electroplating line P-4 by not allowing the concentration of total chromium in the exhaust gas stream discharged to the atmosphere to exceed 0.015 mg/dscm [6.6×10^{-6} gr/dscf].

The emission limitations in this condition apply during tank operation and during periods of startup and shutdown as these are routine occurrences for tanks subject to 326 IAC 20-8-1. The emission limitations do not apply during periods of malfunction.

(2) **Performance Testing:**

The Permittee is required to conduct an initial performance test within 180 days after startup of tanks in electroplating line P-4 using the procedures and methods in 40 CFR 63.344 and 40 CFR 63.7 and in accordance with Section C - Performance Testing.

(3) **Compliance Monitoring Requirements:**

Pursuant to 40 CFR 63.343(c)(3) and 40 CFR 63.343(c)(1)(ii), when using a packed bed scrubber in conjunction with a composite mesh-pad system to comply with the limits specified above, the Permittee shall monitor and record the pressure drop across the composite mesh-pad systems during tank operation once each day that the hard chromium electroplating tanks of the electroplating line P-4 is operating. To be in compliance with the standards, the composite mesh-pad system shall be operated within " 2 inch of water column of the pressure drop value established during the initial performance test, or within the range of compliant values for pressure drop established during multiple performance tests.

(4) **Reporting Requirements:**

A summary report shall be prepared to document the ongoing compliance status of the chromium electroplating operation. This report shall be completed annually, retained on site, and made available to IDEM upon request. If there are significant exceedance of chromium air emission limits (as defined in 40 CFR 63.347(h)(2)), then semiannual reports shall be submitted to:

Indiana Department of Environmental Management
Air Compliance Branch, Office of Air Quality
Chromium Electroplating
100 North Senate Avenue
Indianapolis, Indiana 46204

(5) **Record Keeping and Reporting:**

The chromium electroplating operations shall be subject to the record keeping in 40 CFR 63.346 and reporting requirement in 40 CFR 63.347.

- (e) The proposed modification does not include coating operations which apply coatings to metal parts. Therefore, the National Emission Standards for Hazardous Air Pollutants (NESHAPs) for Miscellaneous Metal Parts and Products Surface Coating (40 CFR 63, Subpart MMMM) are not applicable to this revision.
- (f) This existing hard chrome electroplating plant is a minor source for HAPs. Therefore, the National Emission Standards for Hazardous Air Pollutants -

Industrial/Commercial/Institutional Boilers and Process Heaters (40 CFR 63, Subpart DDDDD) are not applicable to the proposed boiler for dip coating line E-Coat 3.

State Rule Applicability - Hard Chrome Electroplating Line P-4

326 IAC 2-4.1 (Major Sources of Hazardous Air Pollutants (HAP))

The potential to emit HAPs from the proposed chrome electroplating line P-4 is less than 10 tons per year of a single HAP and less than 25 tons per year of a combination of HAPs. Therefore, the requirements 326 IAC 2-4.1 are not applicable.

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

The proposed chrome electroplating line P-4 is subject to NESHAP, Subpart N and 326 IAC 20. In addition, the emission limits contained in NESHAP, Subpart N are more stringent than the particulate limitations established in 326 IAC 6-3. Therefore, the particulate emissions from the chrome electroplating line P-4 are exempt from the requirements in 326 IAC 6-3, pursuant to 326 IAC 6-3-1(c)(6).

State Rule Applicability - Dip Coating Line E-Coat 3

326 IAC 8-1-6 (General Reduction Requirements for VOC Emissions)

The dip coating line E-Coat 3 will be constructed after January 1, 1980 and has potential VOC emissions less than 25 tons per year. Therefore, the requirements of 326 IAC 8-1-6 are not applicable.

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

Since coating line E-Coat 3 is a dip coating operation, this unit is exempt from the particulate emission limitations in 326 IAC 6-3, pursuant to 326 IAC 6-3-1(b)(5).

State Rule Applicability - E-Coat 3 Process Boiler

326 IAC 6-2-4 (PM Emissions for Sources of Indirect Heating)

Pursuant to 326 IAC 6-2-4(a), indirect heating facilities constructed after September 12, 1983, shall be limited by the following equation:

$$Pt = \frac{1.09}{Q^{0.26}}$$

Where: Pt = emission rate limit (lbs/MMBtu)
Q = total source heat input capacity (MMBtu/hr)

The maximum heat input capacity for all the five (5) existing boilers is 27.8 MMBtu/hr. Therefore, the emission rate limit calculated from the equation above for the proposed 3.0 MMBtu/hr process boiler equals:

$$Pt = \frac{1.09}{(27.8 + 3.0)^{0.26}} = 0.45 \text{ lbs/MMBtu}$$

Therefore, the PM emission limit for the proposed process boiler for E-Coat 3 line is 0.45 lbs/MMBtu.

State Rule Applicability - E-Coat 3 Cure Oven

There are no regulations specifically applicable to this unit.

Proposed Changes

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 hard chrome electroplating plant used to manufacture piston rods for automotive struts.

Authorized Individual: ~~Ms. Judy Wilkemper~~ **Environmental Manager**
Source Address: 2625 North Morton, Franklin, Indiana 46131
Mailing Address: 2625 North Morton, Franklin, Indiana 46131
Phone Number: 317-736-7774
SIC Code: 3710
County Location: Johnson
~~County~~ **Source Location Status: Nonattainment for the 8-hour Ozone Standard**
Attainment for all **other** criteria pollutants
Source Status: **Minor Source Operating Permit**
Minor Source, under PSD **and Emission Offset Rules**
Minor Source, Section 112 of the Clean Air Act
Not in 1 of 28 Source Categories

A.2 Emissions units and Pollution Control Equipment Summary

...

(e) ~~Five (5)~~ **Six (6)** natural gas-fired boilers:

...

(5) E-Coat 1 Process Boiler No. 2 (identified as EC1-J300-22B), constructed in June 1991, having a maximum heat input capacity of 1.69 MMBtu/hour, exhausting at stack J300-22B; **and**

(6) One (1) E-Coat 3 process boiler, identified as EC3-Q300-23E, to be constructed in 2005, with a maximum heat input capacity of 3.0 MMBtu/hr, and exhausting through stack Q300-23E.

(f) ~~Eleven (11)~~ **Twelve (12)** natural gas-fired heaters and ovens:

...

(12) One (1) E-Coat 3 cure oven, identified as EC3-Q300-23D, to be constructed in 2005, with a maximum heat input capacity of 2.5 MMBtu/hr, and exhausting through stack Q300-23D.

...

(i) One (1) hard chrome electroplating line, identified as P-4, to be constructed in 2005, consisting of seven (7) rectifiers with a maximum capacity of 6,000 Amperes and one (1) rectifier with a maximum capacity of 4,000 Amperes, controlled by a composite mesh pad wet scrubber system. This electroplating line has a maximum throughput capacity of 1,350 piston rods per hour and exhausts through stack H500-A.

(j) One (1) dip coating line, identified as E-Coat 3, to be constructed in 2005, with a maximum throughput rate of 1,200 parts per hour, and exhausting through stacks Q300-23A through Q300-23C.

SECTION D.1 FACILITY OPERATION CONDITIONS

Facility Description:

- (a) One (1) hard chrome electroplating line (identified as P-1), constructed in 1997, consisting of six (6) rectifiers each having a maximum capacity of 6,000 Amps, with emissions controlled using a composite mesh pad wet scrubber. This electroplating line has a maximum throughput capacity of 550 piston rods per hour. Emissions are exhausted through stack H300-A.
- (b) One (1) hard chrome electroplating line (identified as P-2), constructed in 1997, consisting of six (6) rectifiers each having a maximum capacity of 6,000 Amps, with emissions controlled using a composite mesh pad wet scrubber. This electroplating line has a maximum throughput capacity of 550 piston rods per hour. Emissions are exhausted through stack H200-A.
- (h) One (1) hard chrome electroplating line (identified as P-3), consisting of six (6) rectifiers each having a maximum capacity of 6,000 Amps, with emissions controlled using a composite mesh pad wet scrubber system. This electroplating line has a maximum throughput capacity of 1,000 piston rods per hour. Emissions are exhausted at stack H400-A.
- (i) **One (1) hard chrome electroplating line, identified as P-4, to be constructed in 2005, consisting of seven (7) rectifiers with a maximum capacity of 6,000 Amperes and one (1) rectifier with a maximum capacity of 4,000 Amperes, controlled by a composite mesh pad wet scrubber system. This electroplating line has a maximum throughput capacity of 1,350 piston rods per hour and exhausts through stack H500-A.**

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

D.1.2 Chromium Electroplating and Anodizing NESHAP [326 IAC 20-8-1] [40 CFR Part 63, Subpart N]

The provisions of 40 CFR 63, Subpart N - National Emission Standards for Chromium Emissions From Hard and Decorative Chromium Electroplating and Chromium Anodizing Tanks, which are incorporated by reference as 326 IAC 20-8-1, apply to electroplating lines P-1, P-2, ~~and P-3, and~~ **P-4**. A copy of this rule is attached. The Permittee shall comply with the requirements of this condition on and after the compliance date for each tank.

D.1.3 Chromium Emissions Limitation [40 CFR 63.342(c)] [40 CFR 63.343(a)(1)&(2)] [326 IAC 20-8-1]

...

- (c) The hard chromium electroplating tanks on electroplating lines P-3 **and P-4** ~~are~~ **is** considered a large, new hard chromium electroplating operation. During tank operation, the Permittee shall control chromium emissions discharged to the atmosphere from the tanks by not allowing the concentration of total chromium in the exhaust gas stream discharged to the atmosphere to exceed 0.015 mg/dscm [6.6x10⁻⁶ gr/dscf].

D.1.4 Work Practice Standards [40 CFR 63.342(f)] [326 IAC 20-8-1]

The following work practice standards apply to the electroplating lines P-1, P-2, ~~and P-3, and~~ **P-4**:

- (a) At all times, including periods of startup, shutdown, malfunction and excess emissions, the Permittee shall operate and maintain the electroplating tanks on lines P-1, P-2, ~~and P-3, and~~ **P-4**, including the composite mesh pad wet scrubbers, and any monitoring equipment, in a manner consistent with good air pollution control practices, consistent with the Operation and Maintenance Plan (OMP) required by Condition D.1.6.

...

- (e) Based on the results of a determination made under paragraph (d) of this condition, IDEM, OAQ may require that the Permittee make changes to the OMP required by Condition D.1.6. Revisions may be required if IDEM, OAQ finds that the plan:
 - (1) Does not address a malfunction or period of excess emissions that has occurred;
 - (2) Fails to provide for the operation of the electroplating tanks on electroplating lines P-1, P-2, ~~and P-3,~~ **and P-4**, the composite mesh pad wet scrubbers, and process monitoring equipment during a malfunction or period of excess emissions in a manner consistent with good air pollution control practices; or

For electroplating tanks on electroplating lines **P-3 and P-4**, the Permittee shall comply with the requirements of this condition on and after the start-up date of the electroplating tanks.

....

D.1.5 Preventive Maintenance Plan [326 IAC 1-6-3]

A Preventive Maintenance Plan (PMP), in accordance with Section B-Preventive Maintenance Plan, of this permit, is required for electroplating lines P-1, P-2, ~~and P-3,~~ **and P-4** and the control devices.

D.1.6 Operation and Maintenance Plan [40 CFR 63.342(f)(3)] [326 IAC 20-8-1]

- (a) The Permittee shall prepare an Operation and Maintenance Plan (OMP) to be implemented no later than the startup date of electroplating tanks on electroplating lines P-1, P-2, ~~and P-3,~~ **and P-4**. The OMP shall specify the operation and maintenance criteria for the tanks, the air pollution control devices, and monitoring equipment and shall include the following elements:
 - (1) For the **packed-bed scrubber** composite mesh-pad system (**PBS/CMP**):
 - ...
 - (2) A standardized checklist to document the operation and maintenance criteria for tanks on electroplating lines P-1, P-2, ~~and P-3,~~ **and P-4**, the air pollution control device, the add-on air pollution control device and the monitoring equipment.
 - ...
 - (4) A systematic procedure for identifying malfunctions and periods of excess emissions of tanks on electroplating lines P-1, P-2, ~~and P-3,~~ **and P-4**, the air pollution control device, the add-on air pollution control device and monitoring equipment; and for implementing corrective actions to address such malfunctions and periods of excess emissions.
 - ...
- (c) If the OMP fails to address or inadequately addresses an event that meets the characteristics of a malfunction or period of excess emissions at the time the plan is initially developed, the Permittee shall revise the OMP within forty-five (45) days after such an event occurs. The revised plan shall include procedures for operating and maintaining tanks on electroplating lines P-1, P-2, ~~and P-3,~~ **and P-4**, the air pollution control device, the add-on air pollution control device and the monitoring equipment, during similar malfunction or period of excess emissions events, and a program for corrective action for such events.
- (e) The Permittee shall keep the written OMP on record after it is developed to be made available, upon request, by IDEM, OAQ for the life of tanks on electroplating lines P-1, P-2, ~~and P-3,~~ **and P-4**, or until the tank is no longer subject to the provisions of 40 CFR 63.340. In addition, if the OMP is revised, the Permittee shall keep previous versions of

the OMPs on record to be made available for inspection, upon request by IDEM, OAQ for a period of five (5) years after each revision to the plan.

D.1.7 Performance Testing [326 IAC 2-1.1-11] [40 CFR 63.343(b)(2)] [40 CFR 63.7] [40 CFR 63.344] [326 IAC 20-8-1]

...

(d) **The Permittee is required to conduct an initial performance test within 180 days after startup of tanks in electroplating line P-4 using the procedures and methods in 40 CFR 63.344 and 40 CFR 63.7 and in accordance with Section C - Performance Testing.**

(de) Any change, modification, or reconstruction of the tanks in electroplating lines P-1, P-2, ~~and P-3,~~ **and P-4**, the composite mesh pads, wet scrubber, or monitoring equipment may require additional performance testing conducted in accordance with 40 CFR 63.344 and Section C - Performance Testing.

D.1.8 Establishing Site-Specific Operating Parameter Values [40 CFR 63.343(c)] [40 CFR 63.344(d)] [326 IAC 20-8-1]

During the initial performance test for electroplating lines P-3 **and P-4** and pursuant to 40 CFR 63.343(c)(1)(i) **and 40 CFR 63.343(c)(3)**, when using a **packed bed scrubber in conjunction with a** composite mesh-pad system to comply with the limit specified in Condition D.1.3, the Permittee shall determine the outlet chromium concentration using the test methods in 40 CFR 63.344(c) and shall establish as a site-specific operating parameter the pressure drop across the system, setting the value that corresponds to compliance with the applicable emission limitation using the procedures in 40 CFR 63.344(d)(4) and (5). The Permittee may conduct multiple performance tests to establish a range of compliant pressure drop values, or may set as the compliant value the average pressure drop measured over the three test runs of one performance test, and accept " **42** inch of water column from this value as the compliant range.

D.1.9 Monitoring to Demonstrate Continuous Compliance [326 IAC 2-6.1-5(a)(2)] [40 CFR 63.343(c)] [326 IAC 20-8-1]

(a) Pursuant to **40 CFR 63.343(c)(3)** and 40 CFR 63.343(c)(1)(ii), when using a **packed bed scrubber in conjunction with** a composite mesh-pad system to comply with the limits specified in Condition D.1.3, the Permittee shall monitor and record the pressure drop across the composite mesh-pad systems during tank operation once each day that the hard chromium electroplating tanks in electroplating lines P-1, P-2, and P-3 are operating. To be in compliance with the standards, the composite mesh-pad system shall be operated within " **42** inch of water column of the pressure drop value established during the initial performance test, or within the range of compliant values for pressure drop established during multiple performance tests.

...

D.1.10 Record Keeping Requirements [40 CFR 63.346] [326 IAC 20-8-1]

...

(b) Records of all maintenance performed on tanks in electroplating lines P-1, P-2, ~~and P-3,~~ **and P-4**, the composite mesh pads, and monitoring equipment.

(c) Records of the occurrence, duration, and cause (if known) of each malfunction of tanks in electroplating lines P-1, P-2, ~~and P-3,~~ **and P-4**, the composite mesh pad, and monitoring equipment.

(d) Records of the occurrence, duration, and cause (if known) of each period of excess emissions of tanks in electroplating lines P-1, P-2, ~~and P-3,~~ **and P-4**, the composite mesh

pads, and monitoring equipment as indicated by monitoring data collected in accordance with this condition.

D.1.11 Reporting Requirements [326 IAC 3-6-4(b)] [40 CFR 63.344(a), 63.345 and 63.347]
[326 IAC 20-8-1]

..

(a) Notifications:

(1) Initial Notifications

The Permittee shall submit an Initial Notification for each new or reconstructed tank as follows:

(A) A notification of the actual date when construction or reconstruction of tanks in electroplating lines ~~P-1, P-2, or P-3~~ **P-4** commenced shall be submitted no later than thirty (30) days after such date.

(B) A notification of the actual date of startup of tanks in electroplating lines ~~P-1, P-2, or P-3~~ **P-4** shall be submitted within thirty (30) days after such date.

(2) Notification of Performance Test

The Permittee shall notify IDEM, OAQ in writing of their intention to conduct a performance test for electroplating line ~~P-34~~ at least sixty (60) days before the test is scheduled to begin.

...

(4) Notification of Construction or Reconstruction

Pursuant to 40 CFR 63.345(b)(1), the Permittee may not construct a new tank subject to 40 CFR 63, Subpart N (including non-affected tanks defined in 40 CFR 63.344(e)) without submitting a Notification of Construction or Reconstruction (NCR) to IDEM, OAQ. In addition, the Permittee may not change, modify, or reconstruct tanks in electroplating lines P-1, P-2, ~~and P-3,~~ **and P-4** without submitting a Notification of Construction or Reconstruction (NCR) to IDEM, OAQ.

...

(b) Performance Test Results

The Permittee shall document results from the initial performance test for electroplating line ~~P-34~~ and any future performance tests in a complete test report that contains the information required in 40 CFR 344(a).

(c) Ongoing Compliance Status Report

The Permittee shall prepare summary reports to document the ongoing compliance status of electroplating lines P-1, P-2, ~~and P-3,~~ **and P-4**, using the Ongoing Compliance Status Report form provided with this permit. This report shall contain the information specified in 40 CFR 63.347(g)(3).

Because electroplating lines P-1, P-2, ~~and P-3,~~ **and P-4**, located at site that is an area source of hazardous air pollutants (HAPs), the Ongoing Compliance Status Report shall be retained on site and made available to IDEM, OAQ upon request.

...

SECTION D.2

EMISSIONS UNIT OPERATION CONDITIONS

Facility Description:

- (c) Four (4) spray paint booths, identified as FA-1, FA-2, FA-3 and FA-4, each using an electrostatic air atomization spray gun and with particulate matter emissions controlled using dry filters. The maximum throughput capacity for each spray booth is as follows:
- (1) FA-1 has a maximum throughput capacity of 206 metal parts per hour, exhausting at stacks E300-PB and E300-TU;
 - (2) FA-2 has a maximum throughput capacity of 240 metal parts per hour, exhausting at stack J400-TU;
 - (3) FA-3 has a maximum throughput capacity of 240 metal parts per hour, exhausting at stack K220-TU; and
 - (4) FA-4 has a maximum throughput capacity of 240 metal parts per hour, exhausting at stack L220-TU.
- (d) Two (2) dip coating lines, identified as E-Coat 1 and E-Coat 2, having maximum throughput capacities of 550 outer shells per hour and 600 outer shells per hour, respectively.
- (j) One (1) dip coating line, identified as E-Coat 3, to be constructed in 2005, with a maximum throughput rate of 1,200 parts per hour, and exhausting through stacks Q300-23A through Q300-23C.**

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

SECTION D.3

EMISSIONS UNIT OPERATION CONDITIONS

Facility Description:

- (e) ~~Five (5)~~ **Six (6)** natural gas-fired boilers:
- (1) E-Coat 2 Process Boiler, constructed in June 1997, having a maximum heat input capacity of 3.5 MMBtu/hour, exhausting at stack P 100-21G;
 - (2) Space Heating Boiler No. 1, constructed in June 1988, having a maximum heat input capacity of 10.461 MMBtu/hour, exhausting at stack L85090;
 - (3) Space Heating Boiler No. 2, constructed in June 1988, having a maximum heat input capacity of 10.461 MMBtu/hour, exhausting at stack L-85091;
 - (4) E-Coat 1 Process Boiler No. 1 (identified as EC1-J300-22A), constructed in June 1991 having a maximum heat input capacity of 1.69 MMBtu/hour, exhausting at stack J300-22A;

Facility Description: (Continued)

- (5) E-Coat 1 Process Boiler No. 2 (identified as EC1-J300-22B), constructed in June 1991, having a maximum heat input capacity of 1.69 MMBtu/hour, exhausting at stack J300-22B; **and**
- (6) **One (1) E-Coat 3 process boiler, identified as EC3-Q300-23E, to be constructed in 2005, with a maximum heat input capacity of 3.0 MMBtu/hr, and exhausting through stack Q300-23E.**

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

D.3.1 Particulate Matter Limitation (PM) [326 IAC 6-2-4]

- ...
- (d) Pursuant to 326 IAC 6-2-4 (Particulate emission limitations for sources of indirect heating: Emission Limitations for Facilities Specified in 326 IAC 6-2-1 (d)), particulate emissions from E-Coat 3 process boiler shall in no case exceed 0.45 pounds of particulate matter per million British thermal units heat input.

SECTION D.4

FACILITY OPERATION CONDITIONS

Facility Description:

- (f) ~~Eleven (11)~~ **Twelve (12)** natural gas-fired heaters and ovens:

-
- (12) **One (1) E-Coat 3 cure oven, identified as EC3-Q300-23D, to be constructed in 2005, with a maximum heat input capacity of 2.5 MMBtu/hr, and exhausting through stack Q300-23D.**

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

Conclusion

This permit revision shall be subject to the conditions of the attached proposed Minor Permit Revision No. 081-20410-0015.

**Appendix A: Emission Calculations
PM/PM10 and HAP Emissions
From Chrome Electroplating Line 4**

**Company Name: KYB Manufacturing North America, Inc.
Address: 2625 North Morton, Franklin, IN 46131
MPR: 081-20410-00015
Reviewer: ERG/YC
Date: January 26, 2005**

Max. Capacity (Amp)	Control Efficiency
46,000	99.99% (provided by the source)

This line will be controlled by a composite mesh pad wet scrubber system.

Emission Factor in grains/A-hr	PM* 0.25	PM10* 0.25	Chromium Compounds 0.12
Potential to Emit before Control in tons/yr	7.20	7.20	3.45
Potential to Emit after Control in tons/yr	7.20E-04	7.20E-04	3.45E-04

Emission factors are from AP-42, Table 12.20-1 for Chromium Electroplating (07/96).

* Assume PM10 emissions are equal to PM emissions.

Methodology

PTE before Control (tons/yr) = Max. Capacity (A) x 8760 hr/yr x Emission Factor (grain/A-hr) x 1 lbs/7000 grains x 1 ton/2000 lbs

PTE after Control (tons/yr) = PTE before Control (tons/yr) x (1 - Control Efficiency)

**Appendix A: Emission Calculations
VOC Emissions
From Dip Coating Line (E-Coat 3)**

Company Name: KYB Manufacturing North America, Inc.

Address: 2625 North Morton, Franklin, IN 46131

MPR: 081-20410-00015

Reviewer: ERG/YC

Date: January 26, 2005

Material	Density (lbs/gal)	Weight % VOC	Weight % Solids	Maximum Throughput (unit/hr)	Maximum Usage (gal/unit)	Pounds VOC per gallon of coating	PTE of VOC (lbs/hr)	PTE of VOC (lbs/day)	PTE of VOC (tons/yr)
CF665-415*	9.20	0.87%	41.7%	1200	0.0011	0.08	0.11	2.54	0.46
Total							0.11	2.54	0.46

* This coating does not contain any regulated HAP.

METHODOLOGY

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

PTE of VOC (lbs/hr) = Pounds of VOC per Gallon coating (lbs/gal) * Max. Throughput (unit/hr) * Max. Usage (gal/unit)

PTE of VOC (lbs/day) = Pounds of VOC per Gallon coating (lbs/gal) * Max. Throughput (unit/hr) * Max. Usage (gal/unit) * (24 hr/day)

PTE of VOC (tons/yr) = Pounds of VOC per Gallon coating (lbs/gal) * Max. Throughput (unit/hr) * Max. Usage (gal/unit) * (8760 hr/yr) * (1 ton/2000 lbs)

**Appendix A: Emission Calculations
Natural Gas Combustion
(MMBtu/hr < 100)
From E-Coat 3 Cure Oven (EC3-Q300-23D)**

**Company Name: KYB Manufacturing North America, Inc.
Address: 2625 North Morton, Franklin, IN 46131
MPR: 081-20410-00015
Reviewer: ERG/YC
Date: January 26, 2005**

Heat Input Capacity
MMBtu/hr

Potential Throughput
MMCF/yr

2.5

21.9

	Pollutant					
Emission Factor in lbs/MMCF	PM*	PM10*	SO ₂	**NO _x	VOC	CO
	7.6	7.6	0.6	100	5.5	84.0
Potential to Emit in tons/yr	0.08	0.08	6.6E-03	1.10	0.06	0.92

*PM and PM10 emission factors are condensable and filterable PM10 combined.

**Emission factors for NO_x: Uncontrolled = 100 lbs/MMCF.

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

Methodology

All emission factors are based on normal firing.

MMBtu = 1,000,000 Btu

MMCF = 1,000,000 Cubic Feet of Gas

Potential Throughput (MMCF/yr) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,000 MMBtu

Potential to Emit (tons/yr) = Potential Throughput (MMCF/yr) x Emission Factor (lbs/MMCF) x 1 ton/2000 lbs

**Appendix A: Emission Calculations
 Natural Gas Combustion
 (MMBtu/hr < 100)
 From E-Coat 3 Process Boiler (EC3-Q300-23E)**

**Company Name: KYB Manufacturing North America, Inc.
 Address: 2625 North Morton, Franklin, IN 46131
 MPR: 081-20410-00015
 Reviewer: ERG/YC
 Date: January 26, 2005**

Heat Input Capacity
 MMBtu/hr

Potential Throughput
 MMCF/yr

3.0

26.3

	Pollutant					
Emission Factor in lbs/MMCF	PM*	PM10*	SO ₂	**NO _x	VOC	CO
	7.6	7.6	0.6	100	5.5	84.0
Potential to Emit in tons/yr	0.10	0.10	7.9E-03	1.31	0.07	1.10

*PM and PM10 emission factors are condensable and filterable PM10 combined.

**Emission factors for NO_x: Uncontrolled = 100 lbs/MMCF.

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

Methodology

All emission factors are based on normal firing.

MMBtu = 1,000,000 Btu

MMCF = 1,000,000 Cubic Feet of Gas

Potential Throughput (MMCF/yr) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,000 MMBtu

Potential to Emit (tons/yr) = Potential Throughput (MMCF/yr) x Emission Factor (lbs/MMCF) x 1 ton/2000 lbs