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State of Indiana
Department of Environmental Management
Office of Air Quality

TO: Interested Parties / Applicant

RE: Advance Plating Works, Inc. / Permit Number: MSOP 097-21128-00367

FROM: Felicia A. Robinson *FR*
Manager of Environmental Planning
Indianapolis Office of Environmental Services

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 fifteen (15) calendar days of the receipt 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 Carmen Bugay, Air Permits, at cbugay@indygov.org or phone at (317) 327-2512.

Enclosures

FAR/cmb



City of
Indianapolis
Bart Peterson, Mayor

MINOR SOURCE OPERATING PERMIT (MSOP) RENEWAL

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF AIR QUALITY and INDIANAPOLIS OFFICE OF ENVIRONMENTAL SERVICES

**Advance Plating Works, Inc.
1005 East Sumner Avenue
Indianapolis, Indiana 46227**

(herein known as the Permittee) is hereby authorized to 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.

Permit Renewal No.: MSOP 097-21128-00367	
Issued by:  Felicia A. Robinson Manager of Environmental Planning Office of Environmental Services	Issuance Date: December 7, 2005 Expiration Date: December 6, 2010

Department of Public Works
Office of Environmental Services
2700 South Belmont Avenue (317) 327-2234
Indianapolis, Indiana 46221 (fax) 327-2274
(TDD) 325-5186
www.indygov.org

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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), and Indianapolis Office of Environmental Services (OES). The information describing the source contained in conditions A.1 through A.2 is descriptive information and does not constitute enforceable conditions. However, the Permittee should be aware that a physical change or a change in the method of operation that may render this descriptive information obsolete or inaccurate may trigger requirements for the Permittee to obtain additional permits or seek modification of this permit pursuant to 326 IAC 2, or change other applicable requirements presented in the permit application.

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

The Permittee owns and operates a stationary decorative chromium plating operation.

Authorized Individual: President
Source Address: 1005 East Sumner Ave., Indianapolis, Indiana, 46227
Mailing Address: 1005 East Sumner Ave., Indianapolis, Indiana, 46227
Phone Number: (317) 786-7476
SIC Code: 3471
County Location: Marion
County Status: Nonattainment for ozone under the 8-hour standard
Nonattainment for PM 2.5
Attainment for all other criteria pollutants
Source Status: Minor Source Operating Permit (MSOP)
Minor Source, Section 112 of the Clean Air Act
Minor Source, under PSD and Emission Offset Rules

A.2 Emissions units and Pollution Control Equipment Summary

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

- (a) One (1) decorative chromium electroplating operation consisting of: one (1) decorative chromium tank, identified as DC-1, pre-existing at the source prior to 1970, utilizing a hexavalent chromium bath, and equipped with a wetting agent (UCR T-66, fluorine surfactant) to control chrome emissions by increasing surface tension;
- (b) One (1) natural gas fueled Black oxide tank heater, maximum heat input rate of 0.25 mmBtu per hour, identified as tank heater #1;
- (c) One (1) natural gas fueled Parts oven, with a maximum heat input rate of 0.18 million British thermal units (MMBtu) per hour, identified as parts oven #1;
- (d) One (1) Cleaver Brooks natural gas fueled boiler, model No. B760-150, Serial No. 1-31026, installed in 1982, with a maximum heat input rate of 0.275 MMBtu per hour, identified as boiler #1, exhausting to stack identified as S-1;
- (e) One (1) arc welding/flame cutting station, consisting of 1) arc welding operation utilizing a maximum of 10 electrodes per hour, each electrode weighing 1 ounce; and 2) flame cutting operation utilizing oxygen acetylene, with a maximum metal thickness of ½ inch and maximum of 8 inches per minute, identified as arc welding/flame cutting station #1; and
- (f) One (1) enclosed sandblasting cabinet, utilizing a Vacu-Blast glass oxide sand blaster, internal nozzle diameter of 1/4 inch, and a maximum flow rate of 138 pounds per hour; attached to a baghouse for particulate control, identified as sandblast #1.

SECTION B GENERAL 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 operate 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 Permit Term and Renewal [326 IAC 2-6.1-7(a)][326 IAC 2-1.1-9.5]

This permit is issued for a fixed term of five (5) years from the issuance date of this permit, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions of this permit do not affect the expiration date.

The Permittee shall apply for an operation permit renewal at least ninety (90) days prior to the expiration date. If a timely and sufficient permit application for a renewal has been made, this permit shall not expire and all terms and conditions shall continue in effect until the renewal permit has been issued or denied.

B.5 Modification to Permit [326 IAC 2]

All requirements and conditions of this operating permit shall remain in effect unless modified in a manner consistent with procedures established for modifications of operating permits pursuant to 326 IAC 2 (Permit Review Rules).

B.6 Annual Notification [326 IAC 2-6.1-5(a)(5)]

- (a) Annual notification shall be submitted to the IDEM, OAQ and OES 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:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue
Indianapolis, IN 46204-2251

and

Indianapolis OES
Air Compliance
2700 South Belmont Ave.
Indianapolis, IN 46221

- (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 the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, and OES on or before the date it is due.

B.7 Preventive Maintenance Plan [326 IAC 1-6-3]

- (a) If required by specific condition(s) in Section D of this permit, the Permittee shall maintain and implement Preventive Maintenance Plans (PMPs) within ninety (90) days after issuance of this permit, including the following information on each facility:
- (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;
 - (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and
 - (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.
- (b) A copy of the PMPs shall be submitted to IDEM, OAQ, and OES upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ, and OES. IDEM, OAQ, and OES may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or is the primary contributor to an exceedance of any limitation on emissions or potential to emit. The PMPs do not require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (c) To the extent the Permittee is required by 40 CFR Part 60/63 to have an Operation, Maintenance, and Monitoring (OMM) Plan for a unit, such Plan is deemed to satisfy the PMP requirements of 326 IAC 1-6-3 for that unit.

B.8 Permit Revision [326 IAC 2-5.1-3(e)(3)] [326 IAC 2-6.1-6]

- (a) Permit revisions are governed by the requirements of 326 IAC 2-6.1-6.
- (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 46204-2251

and

Indianapolis OES
Air Compliance
2700 South Belmont Ave.
Indianapolis, IN 46221

Any such application shall be certified by an "authorized individual" as defined by 326 IAC 2-1.1-1.

- (c) The Permittee shall notify the OAQ and OES within thirty (30) calendar days of

implementing a notice-only change. [326 IAC 2-6.1-6(d)]

- (d) No permit amendment or modification is required for the addition, operation or removal of a non-road engine, as defined in 40 CFR 89.2.

**B.9 Inspection and Entry [326 IAC 2-5.1-3(e)(4)(B)] [326 IAC 2-6.1-5(a)(4)] [IC 13-14-2-2]
~~[IC 13-17-3-2] [IC 13-30-3-1]~~**

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

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

B.10 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, and OES, Air Permits, 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, and OES 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.

B.11 Annual Fee Payment [326 IAC 2-1.1-7]

- (a) The Permittee shall pay annual fees to OES within thirty (30) calendar days of receipt of a billing.
- (b) The Permittee may call the following telephone number: (317) 327-2234 (ask for OES Air Compliance), to determine the appropriate permit fee.

B.12 Credible Evidence [326 IAC 1-1-6]

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

SECTION C SOURCE OPERATION CONDITIONS

Entire Source

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

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

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

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

- (a) Violation of any conditions of this permit.
- (b) Failure to disclose all the relevant facts, or misrepresentation in obtaining this permit.
- (c) Changes in regulatory requirements that mandate either a temporary or permanent reduction of discharge of contaminants. However, the amendment of appropriate sections of this permit shall not require revocation of this permit.
- (d) Noncompliance with orders issued pursuant to 326 IAC 1-5 (Episode Alert Levels) to reduce emissions during an air pollution episode.
- (e) For any cause which establishes in the judgment of IDEM, OAQ and OES, the fact that continuance of this permit is not consistent with purposes of this article.

C.3 Opacity [326 IAC 5-1]

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

- (a) Opacity shall not exceed an average of thirty percent (30%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
- (b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute non-overlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

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

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

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

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

- (b) The Permittee shall ensure that a written notification is sent on a form provided by the Commissioner at least ten (10) working days before asbestos stripping or removal work or before demolition begins, per 326 IAC 14-10-3, and shall update such notice as necessary, including, but not limited to the following:
- (1) When the amount of affected asbestos containing material increases or decreases by at least twenty percent (20%); or
 - (2) If there is a change in the following:
 - (A) Asbestos removal or demolition start date;
 - (B) Removal or demolition contractor; or
 - (C) Waste disposal site.
- (c) The Permittee shall ensure that the notice is postmarked or delivered according to the guidelines set forth in 326 IAC 14-10-3(2).
- (d) The notice to be submitted shall include the information enumerated in 326 IAC 14-10-3(3).

All required notifications shall be submitted to:

Indiana Department of Environmental Management
Asbestos Section, Office of Air Quality
100 North Senate Avenue
Indianapolis, Indiana 46204-2251

and

Indianapolis OES
Enforcement Section
2700 South Belmont Ave.
Indianapolis, IN 46221

The notice shall include a signed certification from the owner or operator that the information provided in this notification is correct and that only Indiana licensed workers and project supervisors will be used to implement the asbestos removal project. The notifications do not require a certification by an "authorized individual" as defined by 326 IAC 2-7-1(34).

- (e) Procedures for Asbestos Emission Control

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

- (f) Demolition and renovation

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

- (g) Indiana Accredited Asbestos Inspector

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

Testing Requirements

C.6 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, and OES.

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
Indianapolis, Indiana 46204-2251

and

Indianapolis OES
Air Compliance
2700 South Belmont Ave.
Indianapolis, IN 46221

no later than thirty-five (35) days prior to the intended test date.

- (b) The Permittee shall notify IDEM, OAQ, and OES of the actual test date at least fourteen (14) days prior to the actual date.
- (c) Pursuant to 326 IAC 3-6-4(b), all test reports must be received by IDEM, OAQ, and OES not later than forty-five (45) days after the completion of the testing. An extension may be granted by the IDEM, OAQ, and OES, if the Permittee submits to IDEM, OAQ, and OES a reasonable written explanation not later than five (5) days prior to the end of the initial forty-five (45) day period.

Compliance Requirements [326 IAC 2-1.1-11]

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

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

Compliance Monitoring Requirements

C.8 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.9 Monitoring Methods [326 IAC 3][40 CFR 60][40 CFR 63]

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, 40 CFR 60, Appendix B, 40 CFR 63, or other approved methods as specified in this permit.

C.10 Instrument Specifications [326 IAC 2-1.1-11]

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

C.11 Response to Excursions or Exceedances

- (a) Upon detecting an excursion or exceedance, the Permittee shall restore operation of the emissions unit (including any control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions.
- (b) The response shall include minimizing the period of any startup, shutdown or malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). Corrective actions may include, but are not limited to, the following:
 - (1) initial inspection and evaluation;
 - (2) recording that operations returned to normal without operator action (such as through response by a computerized distribution control system); or
 - (3) any necessary follow-up actions to return operation to within the indicator range, designated condition, or below the applicable emission limitation or standard, as applicable.
- (c) A determination of whether the Permittee has used acceptable procedures in response to an excursion or exceedance will be based on information available, which may include, but is not limited to, the following:
 - (1) monitoring results;
 - (2) review of operation and maintenance procedures and records;
 - (3) inspection of the control device, associated capture system, and the process.
- (d) Failure to take reasonable response steps shall be considered a deviation from the permit.
- (e) The Permittee shall maintain the following records:
 - (1) monitoring data;

- (2) monitor performance data, if applicable; and
- (3) corrective actions taken.

C.12 Actions Related to Noncompliance Demonstrated by a Stack Test

- (a) When the results of a stack test performed in conformance with Section C - Performance Testing, of this permit exceed the level specified in any condition of this permit, the Permittee shall take appropriate response actions. The Permittee shall submit a description of these response actions to IDEM, OAQ, and OES within thirty (30) days of receipt of the test results. The Permittee shall take appropriate action to minimize excess emissions from the affected emissions unit while the response actions are being implemented.
- (b) A retest to demonstrate compliance shall be performed within one hundred twenty (120) days of receipt of the original test results. Should the Permittee demonstrate to IDEM, OAQ, and OES that re-testing in one-hundred and twenty (120) days is not practicable, IDEM, OAQ, and OES may extend the re-testing deadline.
- (c) IDEM, OAQ, and OES reserve the authority to take any actions allowed under law in response to non-compliant stack tests.

The response action documents submitted pursuant to this condition do not require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1.

Record Keeping and Reporting Requirements

C.13 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 IDEM, OAQ, and OES 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 IDEM, OAQ, and OES 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.14 General Record Keeping Requirements [326 IAC 2-6.1-5]

- (a) Records of all required monitoring data, reports and support information required by this permit shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. These records shall be physically present or electronically accessible at the source location for a minimum of three (3) years. The

records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the IDEM Commissioner or OES Administrator makes a request for records to the Permittee, the Permittee shall furnish the records to the IDEM Commissioner or OES Administrator within a reasonable time.

- (b) Unless otherwise specified in this permit, 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 2-6.1-5] [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
Indianapolis, Indiana 46204-2251

and

Indianapolis OES
Air Compliance
2700 South Belmont Avenue
Indianapolis, IN 46221

- (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, and OES on or before the date it is due.
- (c) Unless otherwise specified in this permit, any quarterly or semi-annual report required in Section D of this permit shall be submitted within thirty (30) days of the end of the reporting period. The report(s) does/do not require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (d) 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. Reporting periods are based on calendar years, unless otherwise specified in this permit. For the purpose of this permit "calendar year" means the twelve (12) month period from January 1 to December 31 inclusive.

SECTION D.1

EMISSIONS UNIT OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]: Chromium Electroplating Operation

- (a) One (1) decorative chromium electroplating operation consisting of: One (1) decorative chromium tank, identified as DC-1, pre-existing at the source prior to 1970, utilizing a hexavalent chromium bath, and equipped with a wetting agent (UCR T-66, fluorine surfactant) to control chrome emissions by increasing surface tension;

(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 as 326 IAC 20-1-1, apply to the facility described in this section except when otherwise specified in 40 CFR 63, Subpart N.

D.1.2 Chromium Electroplating 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 tank DC-1. In addition, pursuant to 40 CFR 63, Subpart N, the current version of the rule also applies to the source.

D.1.3 Chromium Emissions Limitation [40 CFR 63.342(d) [40 CFR 63.343(a)(1) & (2)]

- (a) The emission limitations in this condition apply during tank operation, and also apply 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) During tank operation, the Permittee shall control chromium emissions discharged to the atmosphere from tank DC-1 by:
- (1) Not allowing the concentration of total chromium in the exhaust gas stream discharged to the atmosphere to exceed one-hundredth milligrams of total chromium per dry standard cubic meter of ventilation air (0.01 mg/dscm) [equivalent to four and four-tenths times ten raised to the power of negative six grains of total chromium per dry standard cubic foot of ventilation air (4.4×10^{-6} gr/dscf)]; or
 - (2) Not allowing the surface tension of the electroplating bath contained within the tank to exceed forty-five dynes per centimeter (45 dynes/cm) [equivalent to three and one-tenth times ten raised to the power of negative three pound-force per foot (3.1×10^{-3} lb_f/ft)] when using a stalagmometer to measure surface tension and thirty-five dynes per centimeter (35 dynes/cm) [equivalent to two and four-tenths times ten raised to the power of negative three pound-force per foot (2.4×10^{-3} lb_f/ft)] when using a tensiometer to measure surface tension at any time during operation of the DC-1 tank, when a chemical fume suppressant containing a wetting agent is used.

D.1.4 Work Practice Standards [40 CFR 63.342(f)]

The following work practice standards apply to tank DC-1:

- (a) At all times, including periods of startup, shutdown and malfunction, the Permittee shall operate and maintain tank DC-1, wetting agent fume suppressant, and 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 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 the information available to IDEM, OAQ, and OES 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 the determination made under paragraph (d) of this condition, IDEM, OAQ and OES may require that the Permittee make changes to the OMP required by Condition D.1.6. Revisions may be required if IDEM, OAQ and OES find that the plan:
 - (1) Does not address a malfunction that has occurred;
 - (2) Fails to provide for the operation of the DC-1 tank, wetting fume suppressant, and process monitoring equipment during a malfunction in a manner consistent with good air pollution control practices; or
 - (3) Does not provide adequate procedures for correcting malfunctioning process equipment, air pollution control techniques (wetting agent fume suppressant), or monitoring equipment as quickly as practicable.

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 tank DC-1 and control devices.

D.1.6 Operation and Maintenance Plan [40 CFR 63.342(f)(3)]

- (a) The Permittee shall implement an Operation and Maintenance Plan (OMP), in accordance with 40 CFR 63.342(f)(3). The OMP shall specify the operation and maintenance criteria for tank DC-1, wetting agent fume suppressant, and monitoring equipment, and shall include the following elements:
 - (1) Manufacturers recommendations for maintenance of the monitoring equipment used to measure surface tension;
 - (2) A standardized checklist to document the operation and maintenance criteria for tank DC-1, the wetting agent fume suppressant, and the monitoring equipment;
 - (3) Procedures to be followed to ensure that equipment or process malfunctions due to poor maintenance or other preventable conditions as indicated by monitoring data do not occur;
 - (4) A systematic procedure for identifying malfunctions of tank DC-1, wetting agent fume suppressant, and monitoring equipment; and for implementing corrective actions to address such malfunctions;
- (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 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 tank DC-1, the wetting agent, and the monitoring equipment, during similar malfunction and a program for corrective action for such events.
- (d) If actions taken by the Permittee during periods of malfunction 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 and OES.
- (e) The Permittee shall keep the written OMP on record after it is developed to be made available, upon request, by IDEM, OAQ and OES for the life of tank DC-1 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 and OES 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 63.344(a)] [40 CFR 63.7]

- (a) The Permittee is not required to test tank DC-1 by this permit. However, the IDEM and OES may require testing when necessary to determine if tank DC-1 is in compliance. If testing is required by the IDEM and OES, 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.
- (b) Any change, modification, or reconstruction of tank DC-1, the wetting agent fume suppressant, 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)(5)] [40 CFR 63.344(d)]

In lieu of establishing the maximum surface tension during a performance test, the Permittee shall accept the limits stated in Condition D.1.3, that corresponds to compliance with the applicable emission limitation (exhaust gas stream discharge) of 0.01 mg/dscm (4.4×10^{-6} gr/dscf). An initial performance test is not required to be conducted, if the criteria of 40 CFR 63.343(b)(2) are met.

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

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

- (a) Pursuant to 40 CFR 63.343(c)(5)(ii) and (iii), when using a wetting agent in the electroplating bath to comply with the limits specified in Condition D.1.3, the Permittee shall monitor the surface tension of the electroplating baths. Operation of tank DC-1 at a surface tension greater than 45 dynes/cm when measured with a stalagmometer, and 35 dynes/cm when measured with a tensiometer, shall constitute noncompliance with the standards.
 - (1) The Permittee shall monitor the surface tension of the electroplating bath during tank operation according to the following schedule:

- (A) The surface tension shall be measured once every 4 hours during operation of the tank with a stalagmometer or a tensiometer as specified in Method 306B, Appendix A of this part.
 - (B) The time between monitoring can be increased if there have been no exceedances. The surface tension shall be measured once every 4 hours of tank operation for the first 40 hours of tank operation after the compliance date. Once there are no exceedances during 40 hours of tank operation, surface tension measurement may be conducted once every 8 hours of tank operation. Once there are no exceedances during 40 hours of tank operation, surface tension measurement may be conducted once a day provided there are no more than 40 hours between each measurement on an ongoing basis, until an exceedance occurs. The minimum frequency of monitoring allowed by this subpart is once every 40 hours of tank operation.
 - (C) Once an exceedance occurs as indicated through surface tension monitoring, the original monitoring schedule of once every 4 hours must be resumed. A subsequent decrease in frequency shall follow the schedule laid out in paragraph (B) above. For example, if a Permittee had been monitoring a tank once every 40 hours and an exceedance occurs, subsequent monitoring would take place once every 4 hours of tank operation. Once an exceedance does not occur for 40 hours of tank operation, monitoring can occur once every 8 hours of tank operation. ~~Once an exceedance does not occur for 40 hours of tank operation on this schedule, monitoring may occur once a day provided there are no more than 40 hours between each measurement.~~
- (2) Once a bath solution is drained from tank DC-1 and a new solution added, the original monitoring schedule of once every 4 hours must be resumed, with a decrease in monitoring frequency allowed following the procedures in paragraphs (B) and (C) above.
- (b) Operating time is defined as that time when a part is in the tank and there is a current running through the tank. 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 2-5.1-3(e)(2)] [326 IAC 2-6.1-5(a)(2)] [326 IAC 3-6-4(b)]

D.1.10 Record Keeping Requirements [326 IAC 2-5.1-3(e)(2)] [326 IAC 2-6.1-5(a)(2)] [40 CFR 63.346]

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.14 General Record Keeping Requirements of this permit and include a minimum of the following:

- (a) Inspection records for the wetting agent fume suppressant, and monitoring equipment to document that the inspection and maintenance required by Conditions D.1.4 and D.1.6 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 tank DC-1 and monitoring equipment.
- (c) Records of the occurrence, duration, and cause (if known) of each malfunction of tank DC-1 and monitoring equipment.
- (d) Records of the occurrence, duration, and cause (if known) of each period of excess emissions of tank DC-1 and monitoring equipment as indicated by monitoring data collected in accordance with this condition.
- (e) Records of actions taken during periods of malfunction 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, of each tank, during the reporting period.
- (k) Records of the date and time that fume suppressants (wetting agents) were added to the electroplating bath; and the amount and type of fume suppressants (wetting agents) added.
- (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), and 63.347]

The notifications and reports required in this section shall be submitted to IDEM, OAQ and OES using the address specified in Section C.15 General Reporting Requirements.

(a) Notifications:

(1) 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 and OES. In addition, the Permittee may not change, modify, or reconstruct tank DC-1 without submitting a Notification of Construction or Reconstruction (NCR) to IDEM, OAQ and OES.

- (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.

- (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 tank DC-1 serves as this notification.
- (D) Pursuant to 326 IAC 2-1.1-2(a), permission must be received from IDEM, OAQ and OES before construction, modification, or reconstruction may commence.

(b) Performance Test Results:

The Permittee shall document results from 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 tank DC-1 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 tank DC-1 is 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 and OES 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 start-up date of the emissions units to December 31 of the year in which the emissions units begin operation.
 - (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 both of the following conditions are met, semiannual reports shall be prepared and submitted to IDEM, OAQ and OES:
 - (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 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.

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 and OES 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.
- (d) Pursuant to 40 CFR 63.340 (e)(2), a source subject to Subpart N is also subject to the Title V permitting requirements. IDEM, OAQ, has granted a deferral under this rule until December 9, 2004, for sources that are not located at a major source and are not otherwise required to obtain a Title V permit. Therefore, the Permittee must submit a Title V permit application by December 9, 2005. On March 25, 2005, the U.S. EPA proposed to exempt all sources that are subject to a NESHAP, but are not major sources from Title V permitting requirements. If that rule becomes final, the Permittee will not be required to submit a Title V permit application.

SECTION D.2

EMISSIONS UNIT OPERATION CONDITION

Emission Unit Description: Natural Gas Fired Combustion Units combined, 0.7 MMBtu/hr

- (b) One (1) natural gas fueled Black oxide tank heater, maximum heat input rate of 0.25 MMBtu per hour, identified as tank heater #1;
- (c) One (1) natural gas fueled Parts oven, maximum heat input rate of 0.18 MMBtu per hour parts oven #1;
- (d) One (1) Cleaver Brooks natural gas fueled boiler, model No. B760-150, Serial No. 1-31026, installed in 1982, with a maximum heat input rate of 0.275 MMBtu per hour, identified as boiler #1, exhausting to stack identified as S-1;

(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 Particulate Limitation (PM) [326 IAC 6-2-4]

Pursuant to 326 IAC 6-2-4 (Particulate Emission Limitations for Sources of Indirect Heating), the PM emissions from the 0.28 MMBtu per hour heat input for boiler #1 shall be limited to 0.6 pounds per MMBtu heat input. This limitation is based on the following equation:

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

where Pt = Pounds of particulate matter emitted per million Btu (lb/mmBtu) heat input;

and

Q = Total source maximum operating capacity rating in million Btu per hour (MMBtu/hr) heat input. For Q less than 10 mmBtu/hr, Pt shall not exceed 0.6.

SECTION D.3

EMISSIONS UNIT OPERATION CONDITIONS

Emission Unit Description:

- (e) One (1) arc welding/flame cutting station, consisting of 1) arc welding operation utilizing a maximum of 10 electrodes per hour, each electrode weighing 1 ounce; and 2) flame cutting operation utilizing oxygen acetylene, with a maximum metal thickness of ½ inch and maximum of 8 inches per minute, identified as arc welding/flame cutting station #1; and
- (f) One (1) enclosed sandblasting cabinet, utilizing a Vacu-Blast glass oxide sand blaster, internal nozzle diameter of 1/4 inch, and a maximum flow rate of 138 pounds per hour; attached to a baghouse for particulate control, identified as sandblast #1.

(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 (PM) [326 IAC 6-3-2(e)]

(a) Sandblast #1:

Pursuant to 326 IAC 6-3-2 (e)(2), the PM from sandblast #1 shall not exceed 0.68 pounds per hour emission rate when operating at a process weight rate of 138 lbs/hr. The pounds per hour limitation was calculated with the following 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*

*(Note: Interpolation and extrapolation of the data for the process weight rate of up to sixty thousand (60,000) pounds per hour, was utilized in the above formula.)

Compliance Determination Requirement

D.3.2 Particulate Control

In order to comply with D.3.1, the baghouse for particulate control shall be in operation and control emissions from the sandblast #1, at all times that the sandblasting process is in operation.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF AIR QUALITY
 COMPLIANCE DATA SECTION
 and
 INDIANAPOLIS OFFICE OF ENVIRONMENTAL SERVICES
 AIR COMPLIANCE**

**MINOR SOURCE OPERATING PERMIT
 CHROMIUM ELECTROPLATING NESHAP
 ONGOING COMPLIANCE STATUS REPORT**

Source Name: Advanced Plating Works, Inc.
 Source Address: 1005 Sumner Ave., Indianapolis, IN 46227
 Mailing Address: 1005 Sumner Ave., Indianapolis, IN 46227
 MSOP No.: 097-21128-00367

Tank ID #: DC-1
 Type of process: Decorative
 Monitoring Parameter: Surface tension equipped with a wet agent as control for an electroplating bath
 Parameter Value: 45 dynes per centimeter (cm) measured with stalagmometer;
 35 dynes/cm measured with tensiometer
 Emission Limit: Total chromium concentration may not exceed the emission limitation of 0.01
 mg/dscm (exhaust gas stream discharge)

This form is to be used to report compliance for the Chromium Electroplating NESHAP (40 CFR 63, Subpart N) only.
 The frequency for completing this report may be altered by the IDEM, OAQ, Compliance Branch or OES, Air Compliance.

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

BEGINNING AND ENDING DATES OF THE REPORTING PERIOD:			
TOTAL OPERATING TIME OF THE TANK DURING THE REPORTING PERIOD:			
MAJOR AND AREA SOURCES: CHECK ONE			
<input type="checkbox"/> NO DEVIATIONS OF THE MONITORING PARAMETER ASSOCIATED WITH THIS TANK FROM THE COMPLIANT VALUE OR RANGE OF VALUES OCCURRED DURING THIS REPORTING PERIOD.			
<input type="checkbox"/> THE MONITORING PARAMETER DEVIATED FROM THE COMPLIANT VALUE OR RANGE OF VALUES DURING THIS REPORTING PERIOD (THUS INDICATING THE EMISSION LIMITATION MAY HAVE BEEN EXCEEDED, WHICH COULD RESULT IN MORE FREQUENT REPORTING).			
AREA (I.E., NON-MAJOR) SOURCES OF HAP ONLY: IF DEVIATIONS OCCURRED, LIST THE AMOUNT OF TANK OPERATING TIME EACH MONTH THAT MONITORING RECORDS SHOW THE MONITORING PARAMETER DEVIATED FROM THE COMPLIANT VALUE OR RANGE OF VALUES.			
JAN	APR	JUL	OCT
FEB	MAY	AUG	NOV
MAR	JUN	SEP	DEC
HARD CHROME TANKS / MAXIMUM RECTIFIER CAPACITY LIMITED IN ACCORDANCE WITH 40 CFR 63.342(c)(2) ONLY: LIST THE ACTUAL AMPERE-HOURS CONSUMED (BASED ON AN AMP-HR METER) BY THE INDIVIDUAL TANK.			
JAN	APR	JUL	OCT
FEB	MAY	AUG	NOV
MAR	JUN	SEP	DEC

CHROMIUM ELECTROPLATING NESHAP ONGOING COMPLIANCE STATUS REPORT

ATTACH A SEPARATE PAGE IF NEEDED

Page 2 of 2

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

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

ADDITIONAL COMMENTS:

ALL SOURCES: CHECK ONE

I CERTIFY THAT THE WORK PRACTICE STANDARDS IN 40 CFR 63.342(f) WERE FOLLOWED IN ACCORDANCE WITH THE OPERATION AND MAINTENANCE PLAN ON FILE; AND, THAT THE INFORMATION CONTAINED IN THIS REPORT IS ACCURATE AND TRUE TO THE BEST OF MY KNOWLEDGE.

THE WORK PRACTICE STANDARDS IN 40 CFR 63.342(f) WERE NOT FOLLOWED IN ACCORDANCE WITH THE OPERATION AND MAINTENANCE PLAN ON FILE, AS EXPLAINED ABOVE AND/OR ON ATTACHED.

Submitted by: _____

Title/Position: _____

Signature: _____

Date: _____

Phone: _____

Attach a signed certification to complete this report.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION
and
INDIANAPOLIS OFFICE OF ENVIRONMENTAL SERVICES
AIR COMPLIANCE

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:	Advance Plating Works, Inc.
Address:	1005 East Sumner Avenue
City:	Indianapolis, Indiana 46227
Phone #:	(317) 786-7476
MSOP #:	097-21128-00367

I hereby certify that Advance Plating Works, Inc. is still in operation. no longer in operation.

I hereby certify that Advance Plating Works, Inc. is in compliance with the requirements of MSOP 097-21128-00367.
 not in compliance with the requirements of MSOP 097-21128-00367.

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:

MALFUNCTION REPORT

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
and
INDIANAPOLIS OFFICE OF ENVIRONMENTAL SERVICES
AIR COMPLIANCE
FAX NUMBER - 317 233-5967/317 327-2274**

Page 1 of 2

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

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

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

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

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

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

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

ESTIMATED HOURS OF OPERATION WITH MALFUNCTION CONDITION: _____

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

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

ESTIMATED AMOUNT OF POLLUTANT EMITTED DURING MALFUNCTION: _____

MEASURES TAKEN TO MINIMIZE EMISSIONS: _____

REASONS WHY FACILITY CANNOT BE SHUTDOWN DURING REPAIRS:
CONTINUED OPERATION REQUIRED TO PROVIDE ESSENTIAL* SERVICES: _____
CONTINUED OPERATION NECESSARY TO PREVENT INJURY TO PERSONS: _____
CONTINUED OPERATION NECESSARY TO PREVENT SEVERE DAMAGE TO EQUIPMENT: _____
INTERIM CONTROL MEASURES: (IF APPLICABLE) _____

MALFUNCTION REPORTED BY: _____ TITLE: _____

(SIGNATURE IF FAXED)

MALFUNCTION RECORDED BY: _____ DATE: _____ TIME: _____

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
and
INDIANAPOLIS OFFICE OF ENVIRONMENTAL SERVICES**

Technical Support Document (TSD) for a MSOP Renewal

Source Background and Description

Source Name:	Advance Plating Works, Inc.
Source Location:	1005 East Sumner Avenue, Indianapolis, IN 46227
County:	Marion
SIC Code:	3471
Operation Permit No.:	097-11616-00367
Operation Permit Issuance Date:	08-31-2000
Permit Renewal No.:	097-21128-00367
Permit Reviewer:	Carmen Bugay

The Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ) and Indianapolis Office of Environmental Services (OES), have reviewed an application from Advance Plating Works, Inc. ("source") relating to the operation of a decorative chromium plating process.

Permitted Emission Units and Pollution Control Equipment

The source consists of the following permitted emission units and pollution control devices:

- (a) One (1) decorative chromium electroplating operation consisting of: One (1) decorative chromium tank, identified as DC-1, pre-existing at the source prior to 1970, utilizing a hexavalent chromium bath, equipped with a wetting agent (UCR T-66, fluorine surfactant) to control chrome emissions by increasing surface tension;
- (b) One (1) natural gas fueled Black oxide tank heater, maximum heat input rate of 0.25 MMBtu per hour, identified as tank heater #1;
- (c) One (1) natural gas fueled Parts oven, with a maximum heat input rate of 0.18 MMBtu per hour, identified as parts oven #1;
- (d) One (1) Cleaver Brooks natural gas fueled boiler, model No. B760-150, Serial No. 1-31026, installed in 1982, with a maximum heat input rate of 0.275 MMBtu per hour, identified as boiler #1, exhausting to stack identified as S-1;
- (e) One (1) arc welding/flame cutting station, consisting of ~~1) arc welding operation~~ utilizing a maximum of 10 electrodes per hour, each electrode weighing 1 ounce; and 2) flame cutting operation utilizing oxygen acetylene, with a maximum metal thickness cut of 1/2 inch and maximum metal cutting rate of 8 inches per minute, identified as arc welding/flame cutting station #1; and
- (f) One (1) enclosed sandblasting cabinet, utilizing a Vacu-Blast glass oxide sand blaster, internal nozzle diameter of 1/4 inch, and a maximum flow rate of 138 pounds per hour; attached to a baghouse for particulate control, identified as sandblast #1.

Unpermitted Emission Units and Pollution Control Equipment

There are no unpermitted emission units operating at this source during this review process.

Existing Approvals

The source has been operating under previous approvals including, but not limited to, the following:

- (a) OP 097-11616-00367 issued on August 31, 2000.

All conditions from previous approvals were incorporated into this permit, including the following changes as follows:

- (a) D.1.3:

- (1) Chromium Electroplating NESHAP:

- (a) All references to the measuring of the surface tension of the decorative hexavalent chromium bath contained within DC-1 tank were changed to reflect amendments to the NESHAP rule under 40 CFR 63.340-347, Subpart N, effective July 19, 2004, which changes surface tension of the decorative chromium electroplating baths when measured with a tensiometer from 45 to 35 dynes/cm (the stalagmometer measurement of 45 dynes/cm remained the same).
 - (b) The amendments mentioned above have not been incorporated into state rule (326 IAC 20-8), therefore the provisions of the previous version of 40 CFR 63, Subpart N, also apply to tank DC-1.

- (b) D.3.1:

- (1) Particulate Limitations:

- Correction on particulate limitations for the emission units sandblast #1 and sheet metal stamping #1. Correction reflects the deletion of sheet metal stamping #1, and the recalculation of sandblast #1 (0.68 lb/hr) rule under 326 IAC 6-3-2 (e)(2).

Enforcement Issue

There are no enforcement actions pending.

Stack Summary

Stack ID	Operation	Height (ft)	Type/Diameter (ft)	Flow Rate (acfm)	Temperature (°F)
S-1	natural gas combustion	27.5	C/1.33	unknown	unknown

Recommendation

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

An application for the purposes of this review was received on April 20, 2005 with additional information received on June 17, 2005, August 3, August 4, and August 26, 2005.

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

Emission Calculations

Chromium emissions (Single HAP) from the biggest chromium electroplating source in Indiana are less than ten (10) tons per year and Advance Plating Works, Inc., is a much smaller source in comparison. Thus, no emission calculations were necessary for chromium electroplating. In addition, typical particulate emissions (PM = PM-10) from these types of sources, assuming most are in chromium acid mist, are also below 10 tons per year. When the particulate from the decorative chromium electroplating tanks is calculated according to AP-42, Table 12.20-1 (SCC 3-09-010-28), the result is negligible (below 0.1 tpy).

In addition, Appendix A, pages 1-3 of this document lists detailed abrasive blasting and combustion emission calculations, as documented in the MSOP numbered 097-11616-00367 and issued on August 31, 2000. Furthermore, welding and flame cutting calculations have been enclosed on page 4. A summary detailing all unrestricted PTE is detailed on page 5.

Potential to Emit of the Source Before Controls

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."

Pollutant	Potential To Emit (tons/year)
PM*	6.2787
PM-10*	6.2963
SO ₂	0.0019
VOC	0.0170
CO	0.2594
NO _x	0.3088
HAP: Hexane Chromium compounds	0.0056 Less than 10
TOTAL HAP	Less than 10

Note: *PM = PM-10

- (a) The potential to emit (as defined in 326 IAC 2-7-1(29)) of all criteria pollutants are less than 100 tons per year. Therefore, the source is subject to the provisions of 326 IAC 2-6.1.
- (b) This source is a decorative chromium electroplating operation that uses a hexavalent chromium bath; therefore, pursuant to 326 IAC 2-6.1-2, a minor source operating permit (MSOP) will be issued.
- (c) **Fugitive Emissions**
Since this type of operation is not one of the twenty-eight (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 Emission Offset applicability.

County Attainment Status

The source is located in Marion County.

Pollutant	Status
PM-2.5	Nonattainment
PM-10	Attainment
SO ₂	Maintenance attainment
NO ₂	Attainment
1-Hour Ozone	Maintenance 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 the ozone standards. Marion County has been designated as nonattainment for the 8-hour ozone standard on June 15, 2004. Therefore VOC and NOx emissions were reviewed pursuant to the requirements for Emissions Offset rules under 326 IAC 2-3.
- (b) Marion County has been classified as nonattainment for PM-2.5 in 70 FR 943 dated January 5, 2005. Until U.S. EPA adopts specific New Source Review rules for PM-2.5 emissions, it has directed states to regulated PM-10 emissions as surrogate for PM-2.5 emissions pursuant to the nonattainment New Source Review (NSR) requirements. See the State Rule Applicability for the source section.
- (c) Marion County has been classified as attainment for all other criteria pollutants. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

Source Status

Existing Source PSD, Part 70, or FESOP Definition (emissions after controls, based on 8760 hours of operation per year at rated capacity and/or as otherwise limited):

Pollutant	Emissions (tons/yr)
PM	Less than 100
PM-10	Less than 100
SO ₂	Less than 100
VOC	Less than 100
CO	Less than 100
NO _x	Less than 100
Single HAP	Less than 10
Combination HAPs	Less than 25

- (a) This existing source is not a major stationary source because no attainment regulated pollutant is emitted at a rate of 250 tons per year or greater and it is not in one of the 28 listed source categories.
- (b) This existing source is not a major stationary source because no nonattainment pollutant is emitted at a rate of 100 tons per year or greater.

326 IAC 2-7 (Part 70 Permit Program)

This existing source is still not subject to the Part 70 Permit requirements because the potential to emit (PTE) of:

- (a) each criteria pollutant is less than 100 tons per year,
- (b) a single hazardous air pollutant (HAP) is less than 10 tons per year, and
- (c) any combination of HAPs is less than 25 tons per year.

This status is based on all the air approvals issued to the source. This status has been verified by the IDEM, OAQ inspector assigned to the source.

Federal Rule Applicability

- (a) Boiler #1 is not subject to the requirements of the New Source Performance Standard (NSPS), 326 IAC 12, (40 CFR 60.40c, Subpart Dc), due to the combustion units' capacity being less than 10 MMBtu/hr. There are no other NSPS included in this permit.
- (b) Tank DC-1 is subject to the National Emission Standards for Hazardous Air Pollutants, (40 CFR 63, Subpart N, and 326 IAC 20). This emission unit is a decorative hexavalent chromium tank, using a chemical fume suppressant containing a wetting agent, therefore it is subject to 40 CFR 63, Subpart N, and 326 IAC 20-1-1. Pursuant to 40 CFR 63.342 (d)(2) the chromium electroplating operations are subject to the following conditions:

(1) **Emission Limitations:**

On July 19, 2004 (effective date), U.S. EPA revised in 69 Federal Register (FR) 42885 the existing emission standard and compliance monitoring provisions of 40 CFR 63.340, Subpart N for decorative chromium electroplating tanks that use fume suppressants to demonstrate compliance with 40 CFR 63.342(d). However, pursuant to 326 IAC 1-1-3, the version of the rule referenced by 326 IAC 20-8 was the version in existence on July 1, 2002, which had been most recently amended on December 14, 1999. Therefore, the July 19, 2004, amendments to the federal rule are not approved into the State Implementation Plan (SIP), and the chromium electroplating facilities at this source are subject to both versions of the rule. The rule requirements for the previous version of the rule are specified under "326 IAC 20-8 (Hard and Decorative Chromium Electroplating and Chromium Anodizing Tanks)" in the "State Rule Applicability – Individual Facilities" section of this document. When the revised rule is incorporated into the SIP, the Permittee may apply for a revision to the permit to remove any requirements from the previous version of the rule that are not present in the updated version of the rule. All of the requirements of the sections of the federal rule that are applicable to this source are the same as the requirements listed under "326 IAC 20-8", except for the following:

- (A) The surface tension of the chromium electroplating bath contained with the tank shall not exceed forty-five (45) dynes per centimeter (dynes/cm) when measured with a stalagmometer or thirty-five (35) dynes/cm when measured with a tensiometer, at any time during the operation of the tank if a chemical fume suppressant containing a wetting agent is used to demonstrate compliance.

- (B) 40 CFR 63.342(f)(2)(ii)(B) now indicates that IDEM, OAQ, may require that the Permittee make changes to the Operation and Maintenance Plan if IDEM, OAQ, finds that the plan fails to provide for the proper operation of the tank DC-1, the air pollution control techniques, or the control system and process monitoring equipment during a malfunction in a manner consistent with good air pollution control practices.

State Rule Applicability - Entire Source

326 IAC 2-1.1-5 (Non-attainment New Source Review)

This source is not major under nonattainment NSR because it has the potential to emit less than 100 tons of PM-10 (as surrogate for PM2.5). Therefore, the Non-attainment New Source Review requirements are not applicable.

326 IAC 2-2 (Prevention of Significant Deterioration- PSD)

This source is not one (1) of the twenty-eight (28) listed source categories and has potential emissions less than 250 tons per year of PSD regulated pollutants. Therefore, this source is not major for PSD.

326 IAC 2-3 (Emission Offset)

The source is not subject to the requirements of 326 IAC 2-3 (Emission Offset), since the source does not have the potential to emit 100 tons or more per year of volatile organic compounds (VOC) and nitrogen oxides (NOx) for ozone nonattainment areas (Marion County).

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

Indiana presently requests applicants to provide information on emissions of the 188 hazardous air pollutants (HAPs) set out in the Clean Air Act Amendments of 1990. These pollutants are either carcinogenic or otherwise considered toxic and are commonly used by industries. This source will emit levels of air toxics less than those that constitute a major source according to Section 112 of the 1990 Clean Air Act Amendments. Therefore 326 IAC 2-4.1 is not applicable.

326 IAC 2-6 (Emission Reporting)

This source is not subject to 326 IAC 2-6 (Emission Reporting), because it does not meet the applicability requirements of section 1 under this rule, does not emit 5 or more tons per year (tpy) of lead, is not located in Lake or Porter counties, and does not have a Part 70 Permit under 326 IAC 2-7.

326 IAC 5-1 (Opacity Limitations)

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

- (a) Opacity shall not exceed an average of thirty percent (30%) any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-2(2).
- (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.

326 IAC 6.5-1-1 (Nonattainment Area Limitations)

Although the source is located in Marion County, the source does not have the potential to emit 100 tons per year or greater; and/or actual emissions of 10 tons or more per year of particulate matter. Therefore, this requirement does not apply.

State Rule Applicability - Individual Facilities

326 IAC 6-2-4 (Particulate Limitation (PM))

- (a) Pursuant to 326 IAC 6-2-4 (Particulate Emission Limitations for Sources of Indirect Heating), the PM emissions from the 0.28 million British thermal units (MMBtu) per hour heat input for boiler #1 shall be limited to 0.6 pounds per MMBtu heat input, according to the following formula:

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

where Pt = Pounds of particulate matter emitted per million Btu (lb/MMBtu) heat input; and

Q = Total source maximum operating capacity rating in MMBtu/hr heat input.
For Q less than 10 MMBtu/hr, Pt shall not exceed 0.6.

This is the only source of indirect heating at this source.

326 IAC 6-3-2 (Particulate (PM))

- (a) Sandblasting #1:

Pursuant to 326 IAC 6-3-2 (e) (1), the PM from sandblast #1 shall not exceed the 0.68 pounds per hour emission rate established as E in the following formula:

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

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

Therefore based on the formula above, emissions shall be limited to:

$$E \text{ (lb/hr)} = 4.10 \times P \text{ (138 lbs/hr} \times 1 \text{ ton/2,000 lbs)}^{0.67} = 0.68 \text{ lb/hr}$$

$$0.68 \text{ lb/hr} \times 8760 \text{ hours/year} / (1 \text{ ton/2,000 lbs}) = 2.9784 \text{ tons/year}$$

Calculations of air emissions from this process total 1.38 lb/hr (less than 10 lb/hr) or 6.0444 tons per year (tons/yr). Since the particulate matter emitted to the atmosphere after control (baghouse) is less than 0.68 lb/hr (0.014 lb/hr) or 2.98784 tons/yr (0.0604 tons/yr), therefore the source is in compliance with this regulation.

- (b) Welding/Flame Cutting operation #1:

Calculations of these processes show a particulate total of 0.521 lb/hr and 0.2283 tons per year. See Appendix A, page 4 for detailed calculations. Therefore, pursuant to 326 IAC 6-3-1(b)(14), this operation is not subject to the requirements of this rule, because Potential to Emit (PTE) is less than 0.551 lb/hr.

326 IAC 20-8-1 (Hard and Decorative Chromium Electroplating and Chromium Anodizing Tanks)

- (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 facility described in this section except when otherwise specified in 40 CFR Part 63, Subpart N.

- (b) The provisions of the previous version 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 20-8-1, apply to tank DC-1. In addition, pursuant to 40 CFR 63, Subpart N, the current version of the rule also applies to this source.

Chromium Emissions Limitations

- (1) The emission limitations in this condition apply only during tank operation, and also apply 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) During DC-1 tank operation, the Permittee shall control chromium emissions discharged to the atmosphere by not allowing the concentration of total chromium in the exhaust gas stream discharged to the atmosphere to exceed one-hundredth milligrams of total chromium per dry standard cubic meter of ventilation air (0.01 mg/dscm) [equivalent to four and four-tenths times ten raised to the power of negative six grains of total chromium per dry standard cubic foot of ventilation air (4.4×10^{-6} gr/dscf)]; or
- (3) During DC-1 tank operation when a chemical fume suppressant containing a wetting agent is used, the Permittee shall not allow at any time for the surface tension of the electroplating bath within the tank to exceed forty-five dynes per centimeter (45 dynes/cm) [equivalent to three and one-tenth times ten raised to the power of negative three pound-force per foot (3.1×10^{-3} lb/ft)] as measured by a stalagmometer or 35 dynes/cm (2.4×10^{-3} lb/ft) as measured by a tensiometer.
 - (A) **Monitoring Requirements:**
 - (1) The Permittee shall monitor the surface tension of the electroplating baths in the DC-1 tank. Operation of either tank at a surface tension of greater than 45 dynes per centimeter when measured with a stalagmometer and/or 35 dynes per centimeter when measured with a tensiometer, shall constitute noncompliance with the standards. The surface tension of each tank in operation shall be monitored according to the following schedule:
 - (2) The surface tension shall be measured once every four (4) hours for the first forty (40) hours of operating time with a stalagmometer or a tensiometer as specified in 40 CFR 63, Appendix A, Method 306B (Surface Tension Measurement and Record Keeping for Chromium Plating Tanks Used at Electroplating and Anodizing Facilities). If a tensiometer is used to measure surface tension, the instructions given in ASTM Method D 1331-89, "Standard Test Methods for Surface and Interfacial Tension of Solutions of Surface Active Agents," must be followed.
 - (3) The time between monitoring can be increased if there have been no exceedances. Once there are no exceedances in forty (40) hours of operating time, the surface tension measurement may be conducted once every eight (8) hours of operating time. Once there are no exceedances during forty (40) hours of operating time, surface tension measurement may be conducted once every forty (40) hours of operating time on an ongoing basis or on an alternative monitoring schedule approved by IDEM, OAQ and OES until an exceedance occurs.

Per the source's request, the source agrees to conduct surface tension measurements once per day of operation provided there are no more than

forty (40) hours of operating time between successive surface tension measurements.

- (4) Once an exceedance occurs through tank surface tension measurement, wetting agent shall be added and the original monitoring schedule of once every four (4) hours must be resumed. A subsequent decrease in frequency of monitoring surface tension is allowed as stated above.
- (5) Once a tank or bath solution is drained and a new solution is added, the original surface tension monitoring schedule of once every four (4) hours must be resumed with a subsequent decrease in monitoring frequency allowed as stated above.
- (6) Operating time for chromium electroplating is that time when the rectifier is turned on and a part is in the tank. When there is no part in a tank for fifteen (15) or more minutes, that time will not be considered operating time; likewise, if the time between placing a part in the tank is less than fifteen (15) minutes, that time will be considered part of the operating time.

(B) **Work Practice Standards:**

The work practice standards, pursuant to 40 CFR 63.342(f)(1) and (2), apply to tank DC-1, at all times, including periods of startup, shutdown, and malfunction, the Permittee shall operate and maintain tank DC-1, including the wetting agent and monitoring equipment, in a manner consistent with good air pollution control practices, consistent with the Operation and Maintenance Plan (OMP).

(C) **Operation and Maintenance Plan:**

The Permittee shall implement the Operation and Maintenance Plan (OMP), in accordance with 40 CFR 63.342(f)(3) for tank DC-1, including specifying the operation and maintenance of the tank, wetting agent fume suppressant, and monitoring equipment.

(D) **Performance Testing:**

The Permittee is not required to test the DC-1 tank, since they have accepted the 45 dynes/cm as the maximum surface tension value when measuring with the stalagmometer, and when the criteria of 40 CFR 63.343(b)(2) are met. This surface tension value corresponds to compliance with the applicable emission limitation (exhaust gas stream discharge) of 0.01 mg/dscm when operating the DC-1 tank and utilizing the chemical fume suppressant containing the wetting agent.

(E) **Record keeping Requirements:**

Records to document compliance shall be maintained in accordance with the requirements of 40 CFR 63.34.

(F) **Reporting Requirements:**

(1) **The Ongoing Compliance Status Report:**

An annual summary report shall be prepared to document the ongoing compliance status of the chromium electroplating operation. This report, completed annually, shall be retained on site, and made available to IDEM, OAQ and OES upon request. If there are significant exceedance of chromium air emission limits (as defined in 40 CFR Part 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
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

and

Office of Environmental Services
Air Compliance
2700 South Belmont Avenue
Indianapolis, Indiana 46221

(2) Notification of Construction or Reconstruction:

Pursuant to 40 CFR 63.345(b)(1), the Permittee may not construct a new tank (including non-affected tanks defined in 40 CFR 63.344(e)) subject to 40 CFR 63, Subpart N, without submitting a Notification of Construction or Reconstruction (NCR) to IDEM, OAQ and OES. In addition, the Permittee may not change, modify, or reconstruct tank DC-1, without submitting a NCR (which shall contain information identified in 40 CFR 63.345(b)(2) and (3)) to IDEM, OAQ and OES.

- (c) Pursuant to 40 CFR 63.340 (e)(2), a source subject to Subpart N is also subject to the Title V permitting requirements. IDEM, OAQ, has granted a deferral under this rule until December 9, 2004, for sources that are not located at a major source and are not otherwise required to obtain a Title V permit. Therefore, the Permittee must submit a Title V permit application by December 9, 2005. On March 25, 2005, the U.S. EPA proposed to exempt all sources that are subject to a NESHAP, but are not major sources from Title V permitting requirements. If that rule becomes final, the Permittee will not be required to submit a Title V permit application.

Compliance Requirements

Permits issued under 326 IAC 2-6.1 are required to ensure that sources can demonstrate compliance with applicable state and federal rules on a more or less continuous basis. All state and federal rules contain compliance provisions, however, these provisions do not always fulfill the requirement for a more or less continuous demonstration. When this occurs IDEM, OAQ in conjunction with the source, must develop specific conditions to satisfy 326 IAC 2-6.1-5. As a result, compliance requirements are divided into two sections: Compliance Determination Requirements and Compliance Monitoring Requirements.

Compliance Determination Requirements in Section D of the permit are those conditions that are found more or less directly within state and federal rules and the violation of which serves as grounds for enforcement action. If these conditions are not sufficient to demonstrate continuous compliance, they will be supplemented with Compliance Monitoring Requirements, also in Section D of the permit. Unlike Compliance Determination Requirements, failure to meet Compliance Monitoring conditions would serve as a trigger for corrective actions and not as grounds for enforcement action. However, a violation in relation to a compliance monitoring condition will arise through a source's failure to take the appropriate corrective actions within a specific time period.

Conclusion

The operation of this decorative chrome plating process shall be subject to the conditions of the attached proposed Minor Source Operating Permit 097-21128-00367.

Appendix A: Emission Calculations

Abrasive Blasting

Company Name: Advance Plating Works, Inc.
Address City IN Zip: 1005 East Sumner, Indianapolis, Indiana 46227
MSOP: 97-21128-00367
Reviewer: Carmen Bugay
Date: 06/20/05

Table 1 - Emission Factors for Abrasives

Abrasive	Emission Factor	
	lb PM / lb abrasive	lb PM10 / lb PM
Sand	0.041	0.70
Grit	0.010	0.70
Steel Shot	0.004	0.86
Other	0.010	

Table 2 - Density of Abrasives (lb/ft3)

Abrasive	Density (lb/ft3)
Al oxides	160
Sand	99
Steel	487

Table 3 - Sand Flow Rate (FR1) Through Nozzle (lb/hr)

Flow rate of Sand Through a Blasting Nozzle as a Function of Nozzle pressure and Internal Diameter

Internal diameter, in	Nozzle Pressure (psig)							
	30	40	50	60	70	80	90	100
1/8	28	35	42	49	55	63	70	77
3/16	65	80	94	107	122	135	149	165
1/4	109	138	168	195	221	255	280	309
5/16	205	247	292	354	377	420	462	507
3/8	285	355	417	477	540	600	657	720
7/16	385	472	560	645	755	820	905	940
1/2	503	615	725	835	945	1050	1160	1265
5/8	820	990	1170	1336	1510	1680	1850	2030
3/4	1140	1420	1670	1915	2160	2400	2630	2880
1	2030	2460	2900	3340	3780	4200	4640	5060

Calculations

Adjusting Flow Rates for Different Abrasives and Nozzle Diameters

Flow Rate (FR) = Abrasive flow rate (lb/hr) with internal nozzle diameter (ID)
 FR1 = Sand flow rate (lb/hr) with internal nozzle diameter (ID1) From Table 3 =
 D = Density of abrasive (lb/ft3) From Table 2 =
 D1 = Density of sand (lb/ft3) =
 ID = Actual nozzle internal diameter (in) =
 ID1 = Nozzle internal diameter (in) from Table 3 =

138
99
99
0.25
0.25

Flow Rate (FR) (lb/hr) = 138.000 per nozzle

Uncontrolled Emissions (E, lb/hr)

EF = emission factor (lb PM/ lb abrasive) From Table 1 =
 FR = Flow Rate (lb/hr) =
 w = fraction of time of wet blasting =
 N = number of nozzles =

0.010
138.000
0 %
1

Uncontrolled Emissions =	1.38 lb/hr
	6.0444 tons/yr

326 IAC 6-3-2

Uncontrolled emissions emitted to atmosphere

after control (baghouse) in tons/year = 1.38 lb/hr x 1-control efficiency in % (1-0.99) = **0.014 lbs/hr** **0.0604 tons/yr**

METHODOLOGY

Emission Factors from Stappa Alapco, Section 3 "Abrasive Blasting"

Ton/yr = lb/hr X 8760 hr/yr X ton/2000 lbs

Flow Rate (FR) (lb/hr) = FR1 x (ID/ID1)2 x (D/D1)

E = EF x FR x (1-w/200) x N

w should be entered in as a whole number (if w is 50%, enter 50)

Appendix A: Emissions Calculations
Natural Gas Combustion Only
MM BTU/HR <100
Small Industrial Boiler

Company Name: Advance Plating Works, Inc.
Address City IN Zip: 1005 East Summer Avenue, Indianapolis, IN 46227
Permit Number: MSOP 097-21128-00367
Reviewer: Carmen Bugay
Date: 6/20/2005

Heat Input Capacity
 MMBtu/hr^a
 (*combined natural gas MMBtu/hr from tank heater#1, parts oven#1, and boiler#1: 0.25+0.18+0.275=0.7)
 0.7
 6.2

Potential Throughput
 MMCF/yr

	Pollutant					
	PM*	PM10*	SO2	NOx	VOC	CO
Emission Factor in lb/MMCF	1.9	7.6	0.6	100.0 **see below	5.5	84.0
Potential Emission in tons/yr	0.0059	0.0235	0.0019	0.3088	0.0170	0.2594

*PM emission factor is filterable PM only. PM10 emission factor is filterable and condensable PM10 combined.
 **Emission Factors for NOx: Uncontrolled = 100, Low NOx Burner = 50, Low NOx Burners/Flue gas recirculation = 32
326 IAC 6-2-4
 0.0059 ton/yr x 2,000 lb/ton / (8,760 hr/yr x 0.7 MMBtu/hr) = 0.0019 lb/MMBtu

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) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,000 MMBtu
 Emission Factors are from AP 42, Chapter 1.4, Tables 1.4-1, 1.4-2, 1.4-3, SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03 (SUPPLEMENT D 3/98)
 Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton
 See page 3 for HAPs emissions calculations.

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

Company Name: Advance Plating Works, Inc.
Address City IN Zip: 1005 East Summer Avenue, Indianapolis, IN 46227
Permit Number: MSOP 097-21128-00367
Reviewer: Carmen Bugay
Date: 6/20/2005

HAPs - Organics					
	Benzene	Dichlorobenzene	Formaldehyde	Hexane	Toluene
Emission Factor in lb/MMcf	2.1E-03	1.2E-03	7.5E-02	1.8E+00	3.4E-03
Potential Emission in tons/yr	6.485E-06	3.705E-06	2.316E-04	5.558E-03	1.050E-05

HAPs - Metals					
	Lead	Cadmium	Chromium	Manganese	Nickel
Emission Factor in lb/MMcf	5.0E-04	1.1E-03	1.4E-03	3.8E-04	2.1E-03
Potential Emission in tons/yr	1.544E-06	3.397E-06	4.323E-06	1.173E-06	6.485E-06

Methodology is the same as page 2.

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

Appendix A: Emissions Calculations Summary

Company Name: Advance Plating Works, Inc.
Address City IN Zip: 1005 East Summer Avenue
Permit Number: M097-21128-00367
Reviewer: Carmen Bugay
Date: 8/3/2005

Emission Units	Unrestricted PTE in tons/yr							Hexane	Comb HAP
	PM*	PM-10*	SO2	VOC	CO	NOx			
Chromium Electroplating	negligible	negligible							
Abrasive Blasting	6.0444	6.0444							
Tank Heater#1, Parts Oven #1 & Boiler #1 - Nat.GAS	0.0059	0.0235	0.0019	0.0170	0.2594	0.3088	0.0056	0.0058	
Welding/Cutting	0.2283	0.2283						0.0025	
TOTAL	6.2785	6.2961	0.0019	0.0170	0.2594	0.3088	0.0056	0.0084	

Notes:

*PM = PM-10

**Indiana Department of Environmental Management
Office of Air Quality
and
Indianapolis Office of Environmental Services**

**Addendum to the
Technical Support Document (TSD)
for a Minor Source Operating Permit (MSOP) Renewal**

Source Name: Advance Plating Works, Inc.
Source Location: 1005 East Sumner Avenue, Indianapolis, IN 46227
County: Marion
SIC Code: 3471
Operation Permit No.: 097-21128-00367
Permit Reviewer: Carmen Bugay

On October 12, 2005, the Indianapolis Office of Environmental Services (OES) had a notice published in the Indianapolis Star, Indianapolis, Indiana, stating that on April 20, 2005, Advance Plating Works, Inc. requested a renewal of their Minor Source Operating Permit (MSOP) relating to the operation of a stationary decorative chromium plating operation, located at 1005 East Sumner Avenue, Indianapolis, IN 46227. The notice also stated that the OES proposed to issue the MSOP renewal for this operation and provided information on how the public could review the proposed permit and other documentation. Finally, the notice informed interested parties that there was a period of thirty (30) days to provide comments on whether or not this permit should be issued as proposed.

The Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ), and OES prefer that the Technical Support Document reflects the permit that was on public notice. Therefore, the TSD will remain as it originally appeared when published. Changes to the permit or technical support material that occur after the permit has been published are documented in this Addendum to the Technical Support Document. This accomplishes the desired result of ensuring that these types of concerns are documented and part of the record regarding this permit decision (**bolded language is new** which has been added, and the language with a line through it has been deleted). The Table of Contents and page numbering have been revised as needed.

No public comments were received during the Public Notice period. However, the following clarifications and/or changes are noted by IDEM and OES in the Preventive Maintenance Plan, Instrument Specifications, Compliance Response Plan and IDEM's mailing address, as follows:

Preventive Maintenance Plan:

IDEM and OES have determined that the Permittee is not required to keep records of all preventive maintenance. However, where the Permittee seeks to demonstrate that an emergency has occurred, the Permittee must provide, upon request, records of preventive maintenance in order to establish that the lack of proper maintenance did not cause or contribute to the deviation. Therefore, IDEM and OES have deleted paragraph (b) of Section B Condition B.7 – Preventive Maintenance Plan as follows:

B.7 Preventive Maintenance Plan [326 IAC 1-6-3]

- (a) If required by specific condition(s) in Section D of this permit, the Permittee shall maintain and implement Preventive Maintenance Plans (PMPs) **within ninety (90) days after issuance of this permit**, including the following information on each facility:
- (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;
 - (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and

- (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.
- ~~(b) The Permittee shall implement the PMPs, including any required record keeping, as necessary to ensure that failure to implement a PMP does not cause or contribute to an exceedance of any limitation on emissions or potential to emit.~~
- (e) (b) A copy of the PMPs shall be submitted to IDEM, OAQ, and OES upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ, and OES. IDEM, OAQ, and OES may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or is the primary contributor to an exceedance of any limitation on emissions or potential to emit. The PMPs does not require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (d) (c) To the extent the Permittee is required by 40 CFR Part 60/63 to have an Operation, Maintenance, and Monitoring (OMM) Plan for a unit, such Plan is deemed to satisfy the PMP requirements of 326 IAC 1-6-3 for that unit.

Instrument Specifications:

IDEM and OES realize that instrument specifications can only be practically applied to analog units, and has therefore clarified the condition that applies to analog units. Upon further review, IDEM and OES has determined that the accuracy of the instruments is not nearly as important as whether the instrument has a range that is appropriate for the normal expected reading of the parameter. Therefore, the accuracy requirements have been removed from the condition.

C.10 Pressure Gauge and Other Instrument Specifications [326 IAC 2-1.1-11]

- (a) ~~Whenever a condition in this permit requires the measurement of total static pressure drop across any part of the unit or its control device, the gauge employed~~ **When required by any condition of this permit, an analog instrument used to measure a parameter related to the operation of an air pollution control device shall have a scale such that the expected normal maximum reading for the normal range shall be no less than twenty percent (20%) of full scale. and be accurate within plus or minus two percent (2%) of full scale reading.**
- ~~(b) Whenever a condition in this permit requires the measurement of a temperature or flow rate, the instrument employed shall have a scale such that the expected normal reading shall be no less than twenty percent (20%) of full scale and be accurate within plus or minus two percent (2%) of full scale reading.~~
- (e)(b) The Permittee may request **that** the IDEM, OAQ, and OES to approve the use of a ~~pressure gauge or other~~ **an instrument that does not meet the above specifications provided the Permittee can demonstrate that an alternative pressure gauge or other instrument specification will adequately ensure compliance with permit conditions requiring the measurement of pressure drop or other the parameters.**

Compliance Response Plan:

IDEM and OES has reconsidered the requirement to develop and follow a Compliance Response Plan. The Permittee will still be required to take reasonable response steps when a compliance monitoring parameter is determined to be out of range or abnormal. Replacing the requirement to develop and follow a Compliance Response Plan with a requirement to take reasonable response steps will ensure that the control equipment is returned to proper operation as soon as practicable, while still allowing the Permittee the flexibility to respond to situations that were not anticipated. The Section D conditions that refer to this conditions have been revised to reflect the new condition title, and the following changes have been made to the Section C condition:

C.11 Compliance Response Plan—Preparation and Implementation Response to Excursions or Exceedances

- (a) ~~The Permittee is required to prepare a Compliance Response Plan (CRP) for each compliance monitoring condition of this permit. If a Permittee is required to have an Operation, Maintenance and Monitoring (OMM) Plan or Parametric Monitoring Plan and Start-up, Shutdown, and Malfunction (SSM) Plan under 40 CFR 60/63, such plans shall be deemed to satisfy the requirements for a CRP for those compliance monitoring conditions. A CRP Plan shall be submitted to IDEM, OAQ, and OES 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, maintained 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 any time, the Permittee takes reasonable response steps that are not set forth in the Permittee's current Compliance Response Plan or Operation, Maintenance and Monitoring (OMM) Plan or Parametric Monitoring Plan and Start-up, Shutdown, and Malfunction (SSM) Plan, the Permittee shall amend its Compliance Response Plan or Operation, Maintenance and Monitoring (OMM) Plan or Parametric Monitoring Plan and Start-up, Shutdown, and Malfunction (SSM) Plan, to include such response steps taken.~~
- ~~The OMM Plan or Parametric Monitoring and SSM Plan shall be submitted within the time frames specified by the applicable 40 CFR 60/63 requirement.~~
- (b) ~~For each compliance monitoring condition of this permit, reasonable 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 Operation, Maintenance and Monitoring (OMM) Plan (or Parametric Monitoring Plan and Start-up, Shutdown, and Malfunction (SSM) Plan; or~~
 - ~~(2) If none of the reasonable response steps listed in the Compliance Response Plan or Operation, Maintenance and Monitoring (OMM) Plan or Parametric Monitoring Plan and Start-up, Shutdown, and Malfunction (SSM) 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, and it will be ten (10) days or more until the unit or device will be shut down, then the Permittee shall promptly notify the IDEM, OAQ, and OES of the expected date of the shut down. The notification shall also include the status of the applicable compliance monitoring parameter with respect to normal, and the results of the response actions taken up to the time of notification.~~
 - ~~(4) Failure to take reasonable response steps shall be considered a deviation from 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 a minor permit modification 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 or is returning to operating within "normal" parameters and no response steps are required.~~
- (d) 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.
- (a) Upon detecting an excursion or exceedance, the Permittee shall restore operation of the emissions unit (including any control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions.
- (b) The response shall include minimizing the period of any startup, shutdown or malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). Corrective actions may include, but are not limited to, the following:
- (1) initial inspection and evaluation;
 - (2) recording that operations returned to normal without operator action (such as through response by a computerized distribution control system); or
 - (3) any necessary follow-up actions to return operation to within the indicator range, designated condition, or below the applicable emission limitation or standard, as applicable.
- (c) A determination of whether the Permittee has used acceptable procedures in response to an excursion or exceedance will be based on information available, which may include, but is not limited to, the following:
- (1) monitoring results;
 - (2) review of operation and maintenance procedures and records;
 - (3) inspection of the control device, associated capture system, and the process.
- (d) Failure to take reasonable response steps shall be considered a deviation from the permit.
- (e) The Permittee shall maintain the following records:
- (1) monitoring data;

- (2) monitor performance data, if applicable; and
- (3) corrective actions taken.

IDEM's mailing address (corrected throughout the Permit):

Indiana Department of Environmental Management

.....
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251