



Mitchell E. Daniels, Jr.
Governor

Thomas W. Easterly
Commissioner

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

TO: Interested Parties / Applicant
DATE: March 26, 2007
RE: Micromatic, LLC / 001-20799-00033
FROM: Nisha Sizemore
Chief, Permits Branch
Office of Air Quality

Notice of Decision: Approval - Effective Immediately

Please be advised that on behalf of the Commissioner of the Department of Environmental Management, I have issued a decision regarding the enclosed matter. Pursuant to IC 13-15-5-3, this permit is effective immediately, unless a petition for stay of effectiveness is filed and granted according to IC 13-15-6-3, and may be revoked or modified in accordance with the provisions of IC 13-15-7-1.

If you wish to challenge this decision, IC 4-21.5-3 and IC 13-15-6-1 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 of Environmental Adjudication, 100 North Senate Avenue, Government Center North, Room 1049, Indianapolis, IN 46204, **within eighteen (18) calendar days of the mailing of this notice**. The filing of a petition for administrative review is complete on the earliest of the following dates that apply to the filing:

- (1) the date the document is delivered to the Office of Environmental Adjudication (OEA);
- (2) the date of the postmark on the envelope containing the document, if the document is mailed to OEA by U.S. mail; or
- (3) The date on which the document is deposited with a private carrier, as shown by receipt issued by the carrier, if the document is sent to the OEA by private carrier.

The petition must include facts demonstrating that you are either the applicant, a person aggrieved or adversely affected by the decision or otherwise entitled to review by law. Please identify the permit, decision, or other order for which you seek review by permit number, name of the applicant, location, date of this notice and all of the following:

- (1) the name and address of the person making the request;
- (2) the interest of the person making the request;
- (3) identification of any persons represented by the person making the request;
- (4) the reasons, with particularity, for the request;
- (5) the issues, with particularity, proposed for considerations at any hearing; and
- (6) identification of the terms and conditions which, in the judgment of the person making the request, would be appropriate in the case in question to satisfy the requirements of the law governing documents of the type issued by the Commissioner.

If you have technical questions regarding the enclosed documents, please contact the Office of Air Quality, Permits Branch at (317) 233-0178. Callers from within Indiana may call toll-free at 1-800-451-6027, ext. 3-0178.

Enclosures
FNPER.dot 03/23/06



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Indianapolis, Indiana 46204-2251
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MINOR SOURCE OPERATING PERMIT RENEWAL OFFICE OF AIR QUALITY

**Micromatic, LLC
525 Berne Street
Berne, Indiana 46711**

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

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

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

| | |
|--|--|
| Operation Permit No.: MSOP 001-20799-00033 | |
| Issued byOriginal signed by: Nisha Sizemore, Chief Permits Branch Office of Air Quality | Issuance Date:March 26, 2007 Expiration Date:March 26, 2012 |

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SECTION A SOURCE SUMMARY

This permit is based on information requested by the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ). The information describing the source contained in Conditions A.1 through A.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 small hard chromium electroplating and metal anodizing/metal finishing source.

| | |
|-------------------------|--|
| Source Address: | 525 Berne Street, Berne, Indiana 46711 |
| Mailing Address: | 525 Berne Street, Berne, Indiana 46711 |
| General Source Phone: | (260) 589-2136 |
| SIC Code: | 3471, 3541, & 3599 |
| County Location: | Adams |
| Source Location Status: | Attainment for all criteria pollutants |
| Source Status: | Minor Source Operating Permit Program Minor Source, under PSD and Emission Offset Minor Source, Section 112 of the Clean Air Act |

A.2 Emission Units and Pollution Control Equipment Summary

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

- (a) One (1) paint booth used for metal coating, identified as West paint booth, using dry filters for overspray control, and exhausting to stack 23. West paint booth was installed prior to July 1, 1990;
- (b) One (1) paint booth used for metal coating, identified as North paint booth, using dry filters for overspray control, and exhausting to stack 25. North paint booth was installed prior to November 1, 1980;
- (c) Two (2) pneumatic blasters identified as #15 and #16, with particulate emissions from each blaster controlled by a cyclone and baghouse (grain loading of < 0.03 grains per dry standard cubic feet of air each). The pneumatic blasters were installed prior to 1977;
- (d) Degreasing operations consisting of seven (7) small parts washers, all equipped with remote solvent reservoirs, with the following capacities: three (3) 8 gallons, one (1) 18 gallons, and three (3) 25 gallons. The degreasers were installed prior to 1977;
- (e) One (1) hard chromium electroplating operation with a maximum cumulative rectifier capacity of 11,760,000 Ampere-hours (A-hr) consisting of:
 - (1) Two (2) hard chromium electroplating tanks, identified as HC-1 and HC-2, equipped with one (1) Fumitrol® fume suppressant, and exhausting to one (1) stack, identified as 5. Under NESHAP Subpart N, Tank HC-1 and HC-2 are considered open surface hard chrome plating tanks. The electroplating tanks were installed in 1960;

- (f) Welding operation; two (2) metal inert gas (MIG) stations, each with a maximum wire consumption rate of 6.3 pounds of wire per hour (lb wire/hr), one (1) tungsten inert gas (TIG) station, with a maximum wire consumption rate of 6.0 lb wire/hr, one (1) oxyacetylene flame cutter, with a maximum cutting rate of 6 inches per minute, and one (1) plasma cutter, with a maximum cutting rate of 10 inches per minute. The welding operations were installed prior to 1977;
- (g) One (1) sulfuric acid anodizing operation exhausting to stack 9. The anodizing operation was installed in 1960;
- (h) Miscellaneous combustion units consisting of:
 - (1) Fourteen (14) natural gas fired space heaters with a maximum heat input capacity of 0.2 MMBtu/hr each;
 - (2) Four (4) natural gas fired space heaters with a maximum heat input capacity of 0.225 MMBtu/hr each;
 - (3) Four (4) natural gas fired space heaters with a maximum heat input capacity of 0.3 MMBtu/hr each;
 - (4) Three (3) natural gas fired space heaters with a maximum heat input capacity of 0.291 MMBtu/hr each;
 - (5) Five (5) natural gas fired space heaters with a maximum heat input capacity of 0.09315 MMBtu/hr each;
 - (6) One (1) natural gas fired space heater with a maximum heat input capacity of 0.147 MMBtu/hr;
 - (7) One (1) natural gas fired space heater with a maximum heat input capacity of 0.075 MMBtu/hr;
 - (8) Three (3) natural gas fired space heaters with a maximum heat input capacity of 0.0819 MMBtu/hr each;
 - (9) One (1) natural gas fired oven with a maximum heat input capacity of 0.175 MMBtu/hr;
 - (10) One (1) waste oil drier/evaporator with a maximum heat input capacity of 0.15 MMBtu/hr.

SECTION B GENERAL CONDITIONS

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

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

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

- (a) This permit, MSOP 001-20799-00033 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, modifications, or amendments of this permit do not affect the expiration date of this permit.
- (b) If IDEM, OAQ, upon receiving a timely and complete renewal permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect, until the renewal permit has been issued or denied.

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

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

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

B.4 Enforceability

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

B.5 Severability

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

B.6 Property Rights or Exclusive Privilege

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

B.7 Duty to Provide Information

- (a) The Permittee shall furnish to IDEM, OAQ, within a reasonable time, any information that IDEM, OAQ may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The submittal by the Permittee does require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1). Upon request, the Permittee shall also furnish to IDEM, OAQ copies of records required to be kept by this permit.
- (b) For information furnished by the Permittee to IDEM, OAQ, the Permittee may include a claim of confidentiality in accordance with 326 IAC 17.1. When furnishing copies of requested records directly to U. S. EPA, the Permittee may assert a claim of confidentiality in accordance with 40 CFR 2, Subpart B.

B.8 Certification

- (a) Where specifically designated by this permit or required by an applicable requirement, any application form, report, or compliance certification submitted shall contain certification by an "authorized individual" of truth, accuracy, and completeness. This certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.
- (b) One (1) certification shall be included, using the attached Certification Form, with each submittal requiring certification. One (1) certification may cover multiple forms in one (1) submittal.
- (c) An "authorized individual" is defined at 326 IAC 2-1.1-1(1).

B.9 Annual Notification [326 IAC 2-6.1-5(a)(5)]

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

Compliance Branch, Office of Air Quality
Indiana Department of Environmental Management
100 North Senate Avenue,
Indianapolis, 46204-2251
- (c) The notification shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.

B.10 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) 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 upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or is the primary contributor to an exceedance of any limitation on emissions 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.11 Prior Permits Superseded [326 IAC 2-1.1-9.5]

- (a) All terms and conditions of permits established prior to **MSOP 001-20799-00033** and issued pursuant to permitting programs approved into the state implementation plan have been either:
- (1) incorporated as originally stated,
 - (2) revised, or
 - (3) deleted.
- (b) All previous registrations and permits are superseded by this permit.

B.12 Termination of Right to Operate [326 IAC 2-6.1-7(a)]

The Permittee's right to operate this source terminates with the expiration of this permit unless a timely and complete renewal application is submitted at least ninety (90) days prior to the date of expiration of the source's existing permit, consistent with 326 IAC 2-6.1-7.

B.13 Permit Renewal [326 IAC 2-6.1-7]

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

Request for renewal shall be submitted to:

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

- (b) A timely renewal application is one that is:
- (1) Submitted at least ninety (90) days prior to the date of the expiration of this permit; and
 - (2) If the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, on or before the date it is due.
- (c) If the Permittee submits a timely and complete application for renewal of this permit, the source's failure to have a permit is not a violation of 326 IAC 2-6.1 until IDEM, OAQ takes final action on the renewal application, except that this protection shall cease to apply if, subsequent to the completeness determination, the Permittee fails to submit by the deadline specified in writing by IDEM, OAQ any additional information identified as being needed to process the application.

B.14 Permit Amendment or Revision [326 IAC 2-5.1-3(e)(3)][326 IAC 2-6.1-6]

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

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

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

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

- (c) The Permittee shall notify the OAQ within thirty (30) calendar days of implementing a notice-only change. [326 IAC 2-6.1-6(d)]

B.15 Source Modification Requirement

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

B.16 Inspection and Entry [326 IAC 2-5.1-3(e)(4)(B)][326 IAC 2-6.1-5(a)(4)][IC 13-14-2-2][IC 13-17-3-2][IC 13-30-3-1]

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

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

B.17 Transfer of Ownership or Operational Control [326 IAC 2-6.1-6]

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

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

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

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

B.18 Annual Fee Payment [326 IAC 2-1.1-7]

- (a) The Permittee shall pay annual fees to IDEM, OAQ, within thirty (30) calendar days of receipt of a billing.
- (b) The Permittee may call the following telephone numbers: 1-800-451-6027 or 317-233-4230 (ask for OAQ, Billing, Licensing, and Training Section), to determine the appropriate permit fee.

B.19 Credible Evidence [326 IAC 1-1-6]

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

SECTION C

SOURCE OPERATION CONDITIONS

Entire Source

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

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

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

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

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

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

C.3 Opacity [326 IAC 5-1]

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

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

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 Stack Height [326 IAC 1-7]

The Permittee shall comply with the applicable provisions of 326 IAC 1-7 (Stack Height Provisions), for all exhaust stacks through which a potential (before controls) of twenty-five (25) tons per year or more of particulate matter or sulfur dioxide is emitted.

C.6 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

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 2-1.1-1(1).

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

C.7 Performance Testing [326 IAC 3-6]

- (a) All testing shall be performed according to the provisions of 326 IAC 3-6 (Source Sampling Procedures), except as provided elsewhere in this permit, utilizing any applicable procedures and analysis methods specified in 40 CFR 51, 40 CFR 60, 40 CFR 61, 40 CFR 63, 40 CFR 75, or other procedures approved by IDEM, OAQ.

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

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

no later than thirty-five (35) days prior to the intended test date. The protocol submitted by the Permittee does not require certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14) days prior to the actual test date. The notification submitted by the Permittee does not require certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (c) Pursuant to 326 IAC 3-6-4(b), all test reports must be received by IDEM, OAQ not later than forty-five (45) days after the completion of the testing. An extension may be granted by IDEM, OAQ, if the Permittee submits to IDEM, OAQ, a reasonable written explanation not later than five (5) days prior to the end of the initial forty-five (45) day period.

Compliance Requirements [326 IAC 2-1.1-11]

C.8 Compliance Requirements [326 IAC 2-1.1-11]

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

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

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

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

C.10 Monitoring Methods [326 IAC 3] [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.11 Instrument Specifications [326 IAC 2-1.1-11]

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

Corrective Actions and Response Steps

C.12 Response to Excursions or Exceedances

- (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.13 Actions Related to Noncompliance Demonstrated by a Stack Test

- (a) When the results of a stack test performed in conformance with Section C - Performance Testing, of this permit exceed the level specified in any condition of this permit, the Permittee shall take appropriate response actions. The Permittee shall submit a description of these response actions to IDEM, OAQ, within thirty (30) days of receipt of the test results. The Permittee shall take appropriate action to minimize excess emissions from the affected facility 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 that retesting in one-hundred and twenty (120) days is not practicable, IDEM, OAQ may extend the retesting deadline.
- (c) IDEM, OAQ reserves the authority to take any actions allowed under law in response to noncompliant stack tests.

The response action documents submitted pursuant to this condition do require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

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

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

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

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

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

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

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

- (a) Reports required by conditions in Section D of this permit shall be submitted to:

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Quality
100 North Senate Avenue
Indianapolis, Indiana 46204-2251
- (b) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, on or before the date it is due.
- (c) Unless otherwise specified in this permit, all reports required in Section D of this permit shall be submitted within thirty (30) days of the end of the reporting period. All reports do require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (d) 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 UNITS OPERATION CONDITIONS

Emissions Unit Description:

- (a) One (1) paint booth used for metal coating, identified as West paint booth, using dry filters for overspray control, and exhausting to stack 23. West paint booth was installed prior to July 1, 1990;
- (b) One (1) paint booth used for metal coating, identified as North paint booth, using dry filters for overspray control, and exhausting to stack 25. North paint booth was installed prior to November 1, 1980;
- (c) Two (2) pneumatic blasters identified as #15 and #16, with particulate emissions from each blaster controlled by a cyclone and baghouse (grain loading of < 0.03 grains per dry standard cubic feet of air each). The pneumatic blasters were installed prior to 1977.

(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.1.1 Particulate [326 IAC 6-3-2(d)]

- (a) Particulate from surface coating operations shall be controlled by a dry particulate filter, and the Permittee shall operate the control device in accordance with manufacturer's specifications.
- (b) If overspray is visibly detected at the exhaust or accumulates on the ground, the Permittee shall inspect the control device and do either of the following no later than four (4) hours after such observation:
 - (1) Repair control device so that no overspray is visibly detectable at the exhaust or accumulates on the ground.
 - (2) Operate equipment so that no overspray is visibly detectable at the exhaust or accumulates on the ground.
- (c) If overspray is visibly detected, the Permittee shall maintain a record of the action taken as a result of the inspection, any repairs of the control device, or change in operations, so that overspray is not visibly detected at the exhaust or accumulates on the ground. These records must be maintained for five (5) years.

D.1.2 Particulate [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emission rate from each of the two (2) pneumatic blasters (#15 and #16) shall not exceed 1.83 pounds per hour when operating at a process weight rate of 600 pounds per hour each.

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

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

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

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

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

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for the two (2) paint booths, identified as West and North, and the two (2) pneumatic blasters, identified as #15 and #16, and any control devices.

Compliance Determination Requirements

D.1.4 Particulate Control

- (a) In order to comply with Condition D.1.2, the cyclone and baghouse for particulate control shall be in operation and control emissions from the two (2) pneumatic blasters (#15 and #16) at all times that the pneumatic blasters are in operation.
- (b) In the event that bag failure is observed in a multi-compartment baghouse, if operations will continue for ten (10) days or more after the failure is observed before the failed units will be repaired or replaced, the Permittee shall promptly notify the IDEM, OAQ of the expected date the failed units will be repaired or replaced. The notification shall also include the status of the applicable compliance monitoring parameters with respect to normal, and the results of any response actions taken up to the time of notification.

Compliance Monitoring Requirements [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

D.1.5 Visible Emissions Notations

- (a) Daily visible emission notations of the stack exhaust for pneumatic blasters (#15 and #16) shall be performed during normal daylight operations when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.
- (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
- (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.
- (e) If abnormal emissions are observed, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances shall be considered a deviation from this permit.

D.1.6 Parametric Monitoring

The Permittee shall record the pressure drop across the baghouse used in conjunction with the pneumatic blasting operations, at least once daily when the pneumatic blasting operations are in operation when venting to the atmosphere. When for any one reading, the pressure drop across the baghouse is outside the normal range of 3.0 and 6.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances shall be considered a deviation from this permit.

The instrument used for determining the pressure shall comply with Section C - Instrument Specifications, of this permit, shall be subject to approval by IDEM, OAQ, and shall be calibrated at least once every six (6) months.

D.1.7 Broken or Failed Bag Detection

- (a) For a single compartment baghouse controlling emissions from a process operated continuously, a failed unit and the associated process shall be shut down immediately until the failed unit has been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).
- (b) For a single compartment baghouse controlling emissions from a batch process, the feed to the process shall be shut down immediately until the failed unit has been repaired or replaced. The emissions unit shall be shut down no later than the completion of the processing of the material in the line. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

Bag failure can be indicated by a significant drop in the baghouse's pressure reading with abnormal visible emissions, by an opacity violation, or by other means such as gas temperature, flow rate, air infiltration, leaks, dust traces or triboflows.

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

D.1.8 Record Keeping Requirements

- (a) To document compliance with D.1.1, the Permittee shall maintain records in accordance with D.1.1.
- (b) To document compliance with Condition D.1.5, the Permittee shall maintain records of daily visible emission notations of the stack exhaust for pneumatic blasters (#15 and #16) or maintain a record of the reason why visible emission readings were not taken.
- (c) To document compliance with Condition D.1.6, the Permittee shall maintain the daily records of the pressure drop.
- (d) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

SECTION D.2

EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

- (d) Degreasing operations consisting of seven (7) small parts washers, all equipped with remote solvent reservoirs, with the following capacities: three (3) 8 gallons, one (1) 18 gallons, and three (3) 25 gallons. The degreasers were installed prior to 1977.

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

Emission Limitations and Standards (Cold Cleaning Degreaser Operations)

D.2.1 Volatile Organic Compounds (VOC) [326 IAC 8-3-2]

Pursuant to 326 IAC 8-3-2 (Cold Cleaner Operations), for cold cleaning operations constructed after January 1, 1980, the Permittee shall:

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

SECTION D.3 EMISSIONS UNITS OPERATION CONDITIONS

Emissions Unit Description:

- (e) One (1) hard chromium electroplating operation with a maximum cumulative rectifier capacity of 11,760,000 Ampere-hours (A-hr) consisting of:
 - (1) Two (2) hard chromium electroplating tanks, identified as HC-1 and HC-2, equipped with one (1) Fumitrol® fume suppressant, and exhausting to one (1) stack, identified as 5. Under NESHAP Subpart N, Tank HC-1 and HC-2 are considered open surface hard chrome plating tanks. The electroplating tanks were installed in 1960.

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

National Emission Standards for Hazardous Air Pollutants (NESHAP) Requirements [326 IAC 2-6.1-5]

D.3.1 General Provisions Relating to National Emission Standards for Hazardous Air Pollutants under 40 CFR Part 63 [326 IAC 20-1] [40 CFR Part 63, Subpart A]

- (a) Pursuant to 40 CFR 63.340, the Permittee shall comply with the provisions of 40 CFR Part 63, Subpart A – General Provisions, which are incorporated by reference as 326 IAC 20-1-1, as specified in Appendix A of 40 CFR Part 63, Subpart N in accordance with the schedule in 40 CFR 63, Subpart N.
- (b) Pursuant to 40 CFR 63.10, the Permittee shall submit all required notifications and reports to:

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

D.3.2 National Emission Standards for Chromium Emissions From Hard and Decorative Chromium Electroplating and Chromium Anodizing Tanks Requirements [40 CFR Part 63, Subpart N]

Pursuant to CFR Part 63, Subpart N, the Permittee shall comply with the provisions of 40 CFR Part 63, Subpart N, which is incorporated by reference as 326 IAC 20-8-1, as specified as follows:

§ 63.340 Applicability and designation of sources.

- (a) The affected source to which the provisions of this subpart apply is each chromium electroplating or chromium anodizing tank at facilities performing hard chromium electroplating, decorative chromium electroplating, or chromium anodizing.
- (b) Owners or operators of affected sources subject to the provisions of this subpart must also comply with the requirements of subpart A of this part, according to the applicability of subpart A of this part to such sources, as identified in Table 1 of this subpart.
- (e) If you are an owner or operator of an area source subject to this subpart, you are exempt from the obligation to obtain a permit under 40 CFR part 70 or 71, provided you are not required to obtain a permit under 40 CFR 70.3(a) or 71.3(a) for a reason other than your status as an area source under this subpart. Notwithstanding the previous sentence, you must continue to comply with the provisions of this subpart applicable to area sources.

§ 63.341 Definitions and nomenclature.

(a) *Definitions.* Terms used in this subpart are defined in the Act, in subpart A of this part, or in this section. For the purposes of subpart N of this part, if the same term is defined in subpart A of this part and in this section, it shall have the meaning given in this section.

Add-on air pollution control device means equipment installed in the ventilation system of chromium electroplating and anodizing tanks for the purposes of collecting and containing chromium emissions from the tank(s).

Air pollution control technique means any method, such as an add-on air pollution control device or a chemical fume suppressant, that is used to reduce chromium emissions from chromium electroplating and chromium anodizing tanks.

Base metal means the metal or metal alloy that comprises the workpiece.

Bath component means the trade or brand name of each component(s) in trivalent chromium plating baths. For trivalent chromium baths, the bath composition is proprietary in most cases. Therefore, the trade or brand name for each component(s) can be used; however, the chemical name of the wetting agent contained in that component must be identified.

Chemical fume suppressant means any chemical agent that reduces or suppresses fumes or mists at the surface of an electroplating or anodizing bath; another term for fume suppressant is mist suppressant.

Chromic acid means the common name for chromium anhydride (CrO_3).

Chromium anodizing means the electrolytic process by which an oxide layer is produced on the surface of a base metal for functional purposes (e.g., corrosion resistance or electrical insulation) using a chromic acid solution. In chromium anodizing, the part to be anodized acts as the anode in the electrical circuit, and the chromic acid solution, with a concentration typically ranging from 50 to 100 grams per liter (g/L), serves as the electrolyte.

Chromium anodizing tank means the receptacle or container along with the following accompanying internal and external components needed for chromium anodizing: rectifiers fitted with controls to allow for voltage adjustments, heat exchanger equipment, circulation pumps, and air agitation systems.

Chromium electroplating tank means the receptacle or container along with the following internal and external components needed for chromium electroplating: Rectifiers, anodes, heat exchanger equipment, circulation pumps, and air agitation systems.

Composite mesh-pad system means an add-on air pollution control device typically consisting of several mesh-pad stages. The purpose of the first stage is to remove large particles. Smaller particles are removed in the second stage, which consists of the composite mesh pad. A final stage may remove any reentrained particles not collected by the composite mesh pad.

Decorative chromium electroplating means the process by which a thin layer of chromium (typically 0.003 to 2.5 microns) is electrodeposited on a base metal, plastic, or undercoating to provide a bright surface with wear and tarnish resistance. In this process, the part(s) serves as the cathode in the electrolytic cell and the solution serves as the electrolyte. Typical current density applied during this process ranges from 540 to 2,400 Amperes per square meter (A/m^2) for total plating times ranging between 0.5 to 5 minutes.

Electroplating or anodizing bath means the electrolytic solution used as the conducting medium in which the flow of current is accompanied by movement of metal ions for the purposes of electroplating metal out of the solution onto a workpiece or for oxidizing the base material.

Emission limitation means, for the purposes of this subpart, the concentration of total chromium allowed to be emitted expressed in milligrams per dry standard cubic meter (mg/dscm), or the allowable surface tension expressed in dynes per centimeter (dynes/cm).

Enclosed hard chromium electroplating tank means a chromium electroplating tank that is equipped with an enclosing hood and ventilated at half the rate or less that of an open surface tank of the same surface area.

Facility means the major or area source at which chromium electroplating or chromium anodizing is performed.

Fiber-bed mist eliminator means an add-on air pollution control device that removes contaminants from a gas stream through the mechanisms of inertial impaction and Brownian diffusion. These devices are typically installed downstream of another control device, which serves to prevent plugging, and consist of one or more fiber beds. Each bed consists of a hollow cylinder formed from two concentric screens; the fiber between the screens may be fabricated from glass, ceramic plastic, or metal.

Foam blanket means the type of chemical fume suppressant that generates a layer of foam across the surface of a solution when current is applied to that solution.

Fresh water means water, such as tap water, that has not been previously used in a process operation or, if the water has been recycled from a process operation, it has been treated and meets the effluent guidelines for chromium wastewater.

Hard chromium electroplating or industrial chromium electroplating means a process by which a thick layer of chromium (typically 1.3 to 760 microns) is electrodeposited on a base material to provide a surface with functional properties such as wear resistance, a low coefficient of friction, hardness, and corrosion resistance. In this process, the part serves as the cathode in the electrolytic cell and the solution serves as the electrolyte. Hard chromium electroplating process is performed at current densities typically ranging from 1,600 to 6,500 A/m² for total plating times ranging from 20 minutes to 36 hours depending upon the desired plate thickness.

Hexavalent chromium means the form of chromium in a valence state of +6.

Large, hard chromium electroplating facility means a facility that performs hard chromium electroplating and has a maximum cumulative potential rectifier capacity greater than or equal to 60 million ampere-hours per year (amp-hr/yr).

Maximum cumulative potential rectifier capacity means the summation of the total installed rectifier capacity associated with the hard chromium electroplating tanks at a facility, expressed in amperes, multiplied by the maximum potential operating schedule of 8,400 hours per year and 0.7, which assumes that electrodes are energized 70 percent of the total operating time. The maximum potential operating schedule is based on operating 24 hours per day, 7 days per week, 50 weeks per year.

Open surface hard chromium electroplating tank means a chromium electroplating tank that is ventilated at a rate consistent with good ventilation practices for open tanks.

Operating parameter value means a minimum or maximum value established for a control device or process parameter which, if achieved by itself or in combination with one or more other operating parameter values, determines that an owner or operator is in continual compliance with the applicable emission limitation or standard.

Packed-bed scrubber means an add-on air pollution control device consisting of a single or double packed bed that contains packing media on which the chromic acid droplets impinge. The packed-bed section of the scrubber is followed by a mist eliminator to remove any water entrained from the packed-bed section.

Research or laboratory operation means an operation whose primary purpose is for research and development of new processes and products, that is conducted under the close supervision of technically trained personnel, and that is not involved in the manufacture of products for commercial sale in commerce, except in a de minimis manner.

Small, hard chromium electroplating facility means a facility that performs hard chromium electroplating and has a maximum cumulative potential rectifier capacity less than 60 million amp-hr/yr.

Stalagmometer means an instrument used to measure the surface tension of a solution by determining the mass of a drop of liquid by weighing a known number of drops or by counting the number of drops obtained from a given volume of liquid.

Surface tension means the property, due to molecular forces, that exists in the surface film of all liquids and tends to prevent liquid from spreading.

Tank operation means the time in which current and/or voltage is being applied to a chromium electroplating tank or a chromium anodizing tank.

Tensiometer means an instrument used to measure the surface tension of a solution by determining the amount of force needed to pull a ring from the liquid surface. The amount of force is proportional to the surface tension.

Trivalent chromium means the form of chromium in a valence state of +3.

Trivalent chromium process means the process used for electrodeposition of a thin layer of chromium onto a base material using a trivalent chromium solution instead of a chromic acid solution.

Wetting agent means the type of chemical fume suppressant that reduces the surface tension of a liquid.

(b) *Nomenclature*. The nomenclature used in this subpart has the following meaning:

(1) AMR=the allowable mass emission rate from each type of affected source subject to the same emission limitation in milligrams per hour (mg/hr).

(2) AMR_{sys} =the allowable mass emission rate from affected sources controlled by an add-on air pollution control device controlling emissions from multiple sources in mg/hr.

(3) EL=the applicable emission limitation from §63.342 in milligrams per dry standard cubic meter (mg/dscm).

(4) IA_{total} =the sum of all inlet duct areas from both affected and nonaffected sources in meters squared.

(5) IDA_i =the total inlet area for all ducts associated with affected sources in meters squared.

(6) $IDA_{i,a}$ =the total inlet duct area for all ducts conveying chromic acid from each type of affected source performing the same operation, or each type of affected source subject to the same emission limitation in meters squared.

(7) VR=the total of ventilation rates for each type of affected source subject to the same emission limitation in dry standard cubic meters per minute (dscm/min).

(8) VR_{inlet} =the total ventilation rate from all inlet ducts associated with affected sources in dscm/min.

(9) $VR_{inlet,a}$ =the total ventilation rate from all inlet ducts conveying chromic acid from each type of affected source performing the same operation, or each type of affected source subject to the same emission limitation in dscm/min.

(10) VR_{tot} =the average total ventilation rate for the three test runs as determined at the outlet by means of the Method 306 in appendix A of this part testing in dscm/min.

§ 63.342 Standards.

(a) Each owner or operator of an affected source subject to the provisions of this subpart shall comply with these requirements on and after the compliance dates specified in §63.343(a). All affected sources are regulated by applying maximum achievable control technology.

(b) *Applicability of emission limitations.* (1) The emission limitations in this section apply during tank operation as defined in §63.341, and during periods of startup and shutdown as these are routine occurrences for affected sources subject to this subpart. The emission limitations do not apply during periods of malfunction, but the work practice standards that address operation and maintenance and that are required by paragraph (f) of this section must be followed during malfunctions.

(c)(1) *Standards for open surface hard chromium electroplating tanks.* During tank operation, each owner or operator of an existing, new, or reconstructed affected source shall control chromium emissions discharged to the atmosphere from that affected source by either:

(iii) If a chemical fume suppressant containing a wetting agent is used, by not allowing the surface tension of the electroplating or anodizing bath contained within the affected tank to exceed 45 dynes per centimeter (dynes/cm) (3.1×10^{-3} pound-force per foot (lb_f/ft)) as measured by a stalagmometer or 35 dynes/cm (2.4×10^{-3} lb_f/ft) as measured by a tensiometer at any time during tank operation.

(f) *Operation and maintenance practices.* All owners or operators subject to the standards in paragraphs (c) and (d) of this section are subject to these operation and maintenance practices.

(1)(i) At all times, including periods of startup, shutdown, and malfunction, owners or operators shall operate and maintain any affected source, including associated air pollution control devices and monitoring equipment, in a manner consistent with good air pollution control practices, consistent with the operation and maintenance plan required by paragraph (f)(3) of this section.

(ii) Malfunctions shall be corrected as soon as practicable after their occurrence in accordance with the operation and maintenance plan required by paragraph (f)(3) of this section.

(iii) Operation and maintenance requirements established pursuant to section 112 of the Act are enforceable independent of emissions limitations or other requirements in relevant standards.

(2)(i) Determination of whether acceptable operation and maintenance procedures are being used will be based on information available to the Administrator, which may include, but is not limited to, monitoring results; review of the operation and maintenance plan, procedures, and records; and inspection of the source.

(ii) Based on the results of a determination made under paragraph (f)(2)(i) of this section, the Administrator may require that an owner or operator of an affected source make changes to the operation and maintenance plan required by paragraph (f)(3) of this section for that source. Revisions may be required if the Administrator finds that the plan:

(A) Does not address a malfunction that has occurred;

(B) Fails to provide for the proper operation of the affected source, 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; or

(C) Does not provide adequate procedures for correcting malfunctioning process equipment, air pollution control techniques, or monitoring equipment as quickly as practicable.

(3) *Operation and maintenance plan.* (i) The owner or operator of an affected source subject to paragraph (f) of this section shall prepare an operation and maintenance plan to be implemented no later than the compliance date, except for hard chromium electroplaters and the chromium anodizing operations in California which have until January 25, 1998. The plan shall be incorporated by reference into the source's title V permit, if and when a title V permit is required. The plan shall include the following elements:

(A) The plan shall specify the operation and maintenance criteria for the affected source, the add-on air pollution control device (if such a device is used to comply with the emission limits), and the process and control system monitoring equipment, and shall include a standardized checklist to document the operation and maintenance of this equipment;

(C) If the specific equipment used is not identified in Table 1 of this section, the plan shall incorporate proposed operation and maintenance practices. These proposed operation and maintenance practices shall be submitted for approval as part of the submittal required under §63.343(d);

(D) The plan shall specify procedures to be followed to ensure that equipment or process malfunctions due to poor maintenance or other preventable conditions do not occur; and

(E) The plan shall include a systematic procedure for identifying malfunctions of process equipment, add-on air pollution control devices, and process and control system monitoring equipment and for implementing corrective actions to address such malfunctions.

(ii) If the operation and maintenance plan fails to address or inadequately addresses an event that meets the characteristics of a malfunction at the time the plan is initially developed, the owner or operator shall revise the operation and maintenance plan within 45 days after such an event occurs. The revised plan shall include procedures for operating and maintaining the process equipment, add-on air pollution control device, or monitoring equipment during similar malfunction events, and a program for corrective action for such events.

(iii) Recordkeeping associated with the operation and maintenance plan is identified in §63.346(b). Reporting associated with the operation and maintenance plan is identified in §63.347 (g) and (h) and paragraph (f)(3)(iv) of this section.

(iv) If actions taken by the owner or operator during periods of malfunction are inconsistent with the procedures specified in the operation and maintenance plan required by paragraph (f)(3)(i) of this section, the owner or operator shall record the actions taken for that event and shall report by phone such actions within 2 working days after commencing actions inconsistent with the plan. This report shall be followed by a letter within 7 working days after the end of the event, unless the owner or operator makes alternative reporting arrangements, in advance, with the Administrator.

(v) The owner or operator shall keep the written operation and maintenance plan on record after it is developed to be made available for inspection, upon request, by the Administrator for the life of the affected source or until the source is no longer subject to the provisions of this subpart. In addition, if the operation and maintenance plan is revised, the owner or operator shall keep previous (i.e., superseded) versions of the operation and maintenance plan on record to be made available for inspection, upon request, by the Administrator for a period of 5 years after each revision to the plan.

(vi) To satisfy the requirements of paragraph (f)(3) of this section, the owner or operator may use applicable standard operating procedure (SOP) manuals, Occupational Safety and Health Administration (OSHA) plans, or other existing plans, provided the alternative plans meet the requirements of this section.

(g) The standards in this section that apply to chromic acid baths shall not be met by using a reducing agent to change the form of chromium from hexavalent to trivalent.

Table 1 to § 63.342_Summary of Operation and Maintenance Practices

Monitoring Equipment

Stalagmometer..... Follow manufacturer's recommendations.

§ 63.343 Compliance provisions.

(a) *Compliance dates.* (1) The owner or operator of an existing affected source shall comply with the emission limitations in §63.342 as follows:

(ii) No later than 2 years after January 25, 1995, if the affected source is a hard chromium electroplating tank or a chromium anodizing tank.

(3) The owner or operator of an existing area source that increases actual or potential emissions of hazardous air pollutants such that the area source becomes a major source must comply with the provisions for existing major sources, including the reporting provisions of §63.347(g), immediately upon becoming a major source.

(4) The owner or operator of a new area source (i.e., an area source for which construction or reconstruction was commenced after December 16, 1993) that increases actual or potential emissions of hazardous air pollutants such that the area source becomes a major source must comply with the provisions for new major sources, immediately upon becoming a major source.

(5) An owner or operator of an existing hard chromium electroplating tank or tanks located at a small, hard chromium electroplating facility that increases its maximum cumulative potential rectifier capacity, or its actual cumulative rectifier capacity, such that the facility becomes a large, hard chromium electroplating facility must comply with the requirements of §63.342(c)(1)(i) for all hard chromium electroplating tanks at the facility no later than 1 year after the month in which monthly records required by §§63.342(c)(2) and 63.346(b)(12) show that the large designation is met, or by the compliance date specified in paragraph (a)(1)(ii) of this section, whichever is later.

(6) *Request for an extension of compliance.* An owner or operator of an affected source or sources that requests an extension of compliance shall do so in accordance with this paragraph and the applicable paragraphs of §63.6(i). When the owner or operator is requesting the extension for more than one affected source located at the facility, then only one request may be submitted for all affected sources at the facility.

(i) The owner or operator of an existing affected source who is unable to comply with a relevant standard under this subpart may request that the Administrator (or a State, when the State has an approved part 70 permit program and the source is required to obtain a part 70 permit under that program, or a State, when the State has been delegated the authority to implement and enforce the emission standard for that source) grant an extension allowing the owner or operator up to 1 additional year to comply with the standard for the affected source. The owner or operator of an affected source who has requested an extension of compliance under this paragraph and is otherwise required to obtain a title V permit for the source shall apply for such permit or apply to have the title V permit revised to incorporate the conditions of the extension of compliance. The conditions of an extension of compliance granted under this paragraph will be incorporated into the owner or operator's title V permit for the affected source(s) according to the provisions of 40 CFR part 70 or 40 CFR part 71, whichever is applicable.

(ii) Any request under this paragraph for an extension of compliance with a relevant standard shall be submitted in writing to the appropriate authority not later than 6 months before the affected source's compliance date as specified in this section.

(b) *Methods to demonstrate initial compliance.* (1) Except as provided in paragraphs (b)(2) and (b)(3) of this section, an owner or operator of an affected source subject to the requirements of this subpart is required to conduct an initial performance test as required under §63.7, except for hard chromium electroplaters and chromium anodizing operations in California which have until January 25, 1998, using the procedures and test methods listed in §§63.7 and 63.344.

(c) *Monitoring to demonstrate continuous compliance.* The owner or operator of an affected source subject to the emission limitations of this subpart shall conduct monitoring according to the type of air pollution control technique that is used to comply with the emission limitation. The monitoring required to demonstrate continuous compliance with the emission limitations is identified in this section for the air pollution control techniques expected to be used by the owners or operators of affected sources.

(5) *Wetting agent-type or combination wetting agent-type/foam blanket fume suppressants.* (i) During the initial performance test, the owner or operator of an affected source complying with the emission limitations in §63.342 through the use of a wetting agent in the electroplating or anodizing bath shall determine the outlet chromium concentration using the procedures in §63.344(c). The owner or operator shall establish as the site-specific operating parameter the surface tension of the bath using Method 306B, appendix A of this part, setting the maximum value that corresponds to compliance with the applicable emission limitation. In lieu of establishing the maximum surface tension during the performance test, the owner or operator may accept 45 dynes/cm as measured by a stalagmometer or 35 dynes/cm as measured by a tensiometer as the maximum surface tension value that corresponds to compliance with the applicable emission limitation. However, the owner or operator is exempt from conducting a performance test only if the criteria of paragraph (b)(2) of this section are met.

(ii) On and after the date on which the initial performance test is required to be completed under §63.7, except for hard chromium electroplaters and chromium anodizing operations in California, which have until January 25, 1998, the owner or operator of an affected source shall monitor the surface tension of the electroplating or anodizing bath. Operation of the affected source at a surface tension greater than the value established during the performance test, or greater than 45 dynes/cm as measured by a stalagmometer or 35 dynes/cm as measured by a tensiometer if the owner or operator is using this value in accordance with paragraph (c)(5)(i) of this section, shall constitute noncompliance with the standards. The surface tension shall be monitored 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 every 40 hours of tank operation 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 (c)(5)(ii)(B) of this section. For example, if an owner or operator had been monitoring an affected source 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 can occur once every 40 hours of tank operation.

(iii) Once a bath solution is drained from the affected tank 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 of paragraphs (c)(5)(ii) (B) and (C) of this section.

§ 63.344 Performance test requirements and test methods.

(a) *Performance test requirements.* Performance tests shall be conducted using the test methods and procedures in this section and §63.7. Performance test results shall be documented in complete test reports that contain the information required by paragraphs (a)(1) through (a)(9) of this section. The test plan to be followed shall be made available to the Administrator prior to the testing, if requested.

- (1) A brief process description;
- (2) Sampling location description(s);
- (3) A description of sampling and analytical procedures and any modifications to standard procedures;
- (4) Test results;
- (5) Quality assurance procedures and results;
- (6) Records of operating conditions during the test, preparation of standards, and calibration procedures;
- (7) Raw data sheets for field sampling and field and laboratory analyses;
- (8) Documentation of calculations; and
- (9) Any other information required by the test method.

(b)(1) If the owner or operator of an affected source conducts performance testing at startup to obtain an operating permit in the State in which the affected source is located, the results of such testing may be used to demonstrate compliance with this subpart if:

- (i) The test methods and procedures identified in paragraph (c) of this section were used during the performance test;
- (ii) The performance test was conducted under representative operating conditions for the source;
- (iii) The performance test report contains the elements required by paragraph (a) of this section; and
- (iv) The owner or operator of the affected source for which the performance test was conducted has sufficient data to establish the operating parameter value(s) that correspond to compliance with the standards, as required for continuous compliance monitoring under §63.343(c).

(2) The results of tests conducted prior to December 1991 in which Method 306A, appendix A of this part, was used to demonstrate the performance of a control technique are not acceptable.

(c) *Test methods.* Each owner or operator subject to the provisions of this subpart and required by §63.343(b) to conduct an initial performance test shall use the test methods identified in this section to demonstrate compliance with the standards in §63.342.

(1) Method 306 or Method 306A, "Determination of Chromium Emissions From Decorative and Hard Chromium Electroplating and Anodizing Operations," appendix A of this part shall be used to determine the chromium concentration from hard or decorative chromium electroplating tanks or chromium anodizing tanks. The sampling time and sample volume for each run of Methods 306 and 306A, appendix A of this part shall be at least 120 minutes and 1.70 dscm (60 dscf), respectively. Methods 306 and 306A, appendix A of this part allow the measurement of either total chromium or hexavalent chromium emissions. For the purposes of this standard, sources using chromic acid baths can demonstrate compliance with the emission limits of §63.342 by measuring either total chromium or hexavalent chromium. Hence, the hexavalent chromium concentration measured by these methods is equal to the total chromium concentration for the affected operations.

(2) The California Air Resources Board (CARB) Method 425 (which is available by contacting the California Air Resources Board, 1102 Q Street, Sacramento, California 95814) may be used to determine the chromium concentration from hard and decorative chromium electroplating tanks and chromium anodizing tanks if the following conditions are met:

(i) If a colorimetric analysis method is used, the sampling time and volume shall be sufficient to result in 33 to 66 micrograms of catch in the sampling train.

(ii) If Atomic Absorption Graphite Furnace (AAGF) or Ion Chromatography with a Post-column Reactor (ICPCR) analyses were used, the sampling time and volume should be sufficient to result in a sample catch that is 5 to 10 times the minimum detection limit of the analytical method (i.e., 1.0 microgram per liter of sample for AAGF and 0.5 microgram per liter of sample for ICPCR).

(iii) In the case of either paragraph (c)(2) (i) or (ii) of this section, a minimum of 3 separate runs must be conducted. The other requirements of §63.7 that apply to affected sources, as indicated in Table 1 of this subpart, must also be met.

(3) Method 306B, "Surface Tension Measurement and Recordkeeping for Tanks Used at Decorative Chromium Electroplating and Anodizing Facilities," appendix A of this part shall be used to measure the surface tension of electroplating and anodizing baths.

(4) Alternate test methods may also be used if the method has been validated using Method 301, appendix A of this part and if approved by the Administrator. Procedures for requesting and obtaining approval are contained in §63.7(f).

(d) *Establishing site-specific operating parameter values.* (1) Each owner or operator required to establish site-specific operating parameters shall follow the procedures in this section.

(2) All monitoring equipment shall be installed such that representative measurements of emissions or process parameters from the affected source are obtained. For monitoring equipment purchased from a vendor, verification of the operational status of the monitoring equipment shall include execution of the manufacturer's written specifications or recommendations for installation, operation, and calibration of the system.

(3) The surface tension of electroplating and anodizing baths shall be measured using Method 306B, "Surface Tension Measurement and Recordkeeping for Tanks used at Decorative Chromium Electroplating and Anodizing Facilities," appendix A of this part. This method should also be followed when wetting agent type or combination wetting agent/foam blanket type fume suppressants are used to control chromium emissions from a hard chromium electroplating tank and surface tension measurement is conducted to demonstrate continuous compliance.

§ 63.346 Recordkeeping requirements.

(a) The owner or operator of each affected source subject to these standards shall fulfill all recordkeeping requirements outlined in this section and in the General Provisions to 40 CFR part 63, according to the applicability of subpart A of this part as identified in Table 1 of this subpart.

(b) The owner or operator of an affected source subject to the provisions of this subpart shall maintain the following records for such source:

(1) Inspection records for the add-on air pollution control device, if such a device is used, and monitoring equipment, to document that the inspection and maintenance required by the work practice standards of §63.342(f) and Table 1 of §63.342 have taken place. The record can take the form of a checklist and should identify the device inspected, the date of inspection, a brief description of the working condition of the device during the inspection, and any actions taken to correct deficiencies found during the inspection.

- (2) Records of all maintenance performed on the affected source, the add-on air pollution control device, and monitoring equipment;
 - (3) Records of the occurrence, duration, and cause (if known) of each malfunction of process, add-on air pollution control, and monitoring equipment;
 - (4) Records of actions taken during periods of malfunction when such actions are inconsistent with the operation and maintenance plan;
 - (5) Other records, which may take the form of checklists, necessary to demonstrate consistency with the provisions of the operation and maintenance plan required by §63.342(f)(3);
 - (6) Test reports documenting results of all performance tests;
 - (7) All measurements as may be necessary to determine the conditions of performance tests, including measurements necessary to determine compliance with the special compliance procedures of §63.344(e);
 - (8) Records of monitoring data required by §63.343(c) that are used to demonstrate compliance with the standard including the date and time the data are collected;
 - (9) The specific identification (i.e., the date and time of commencement and completion) of each period of excess emissions, as indicated by monitoring data, that occurs during malfunction of the process, add-on air pollution control, or monitoring equipment;
 - (10) The specific identification (i.e., the date and time of commencement and completion) of each period of excess emissions, as indicated by monitoring data, that occurs during periods other than malfunction of the process, add-on air pollution control, or monitoring equipment;
 - (11) The total process operating time of the affected source during the reporting period;
 - (13) For sources using fume suppressants to comply with the standards, records of the date and time that fume suppressants are added to the electroplating or anodizing bath;
 - (16) All documentation supporting the notifications and reports required by §63.9, §63.10, and §63.347.
- (c) All records shall be maintained for a period of 5 years in accordance with §63.10(b)(1).

§ 63.347 Reporting requirements.

- (a) The owner or operator of each affected source subject to these standards shall fulfill all reporting requirements outlined in this section and in the General Provisions to 40 CFR part 63, according to the applicability of subpart A as identified in Table 1 of this subpart. These reports shall be made to the Administrator at the appropriate address as identified in §63.13 or to the delegated State authority.
- (1) Reports required by subpart A of this part and this section may be sent by U.S. mail, fax, or by another courier.
 - (i) Submittals sent by U.S. mail shall be postmarked on or before the specified date.
 - (ii) Submittals sent by other methods shall be received by the Administrator on or before the specified date.
 - (2) If acceptable to both the Administrator and the owner or operator of an affected source, reports may be submitted on electronic media.
- (b) The reporting requirements of this section apply to the owner or operator of an affected source when such source becomes subject to the provisions of this subpart.

(c) *Initial notifications.* (1) The owner or operator of an affected source that has an initial startup before January 25, 1995, shall notify the Administrator in writing that the source is subject to this subpart. The notification shall be submitted no later than 180 calendar days after January 25, 1995, and shall contain the following information:

- (i) The name, title, and address of the owner or operator;
- (ii) The address (i.e., physical location) of each affected source;
- (iii) A statement that subpart N of this part is the basis for this notification;
- (iv) Identification of the applicable emission limitation and compliance date for each affected source;
- (v) A brief description of each affected source, including the type of process operation performed;
- (vi) For sources performing hard chromium electroplating, the maximum potential cumulative potential rectifier capacity;
- (vii) For sources performing hard chromium electroplating, a statement of whether the affected source(s) is located at a small or a large, hard chromium electroplating facility and whether this will be demonstrated through actual or maximum potential cumulative rectifier capacity;
- (viii) For sources performing hard chromium electroplating, a statement of whether the owner or operator of an affected source(s) will limit the maximum potential cumulative rectifier capacity in accordance with §63.342(c)(2) such that the hard chromium electroplating facility is considered small; and
- (ix) A statement of whether the affected source is located at a major source or an area source as defined in §63.2.

(2) The owner or operator of a new or reconstructed affected source that has an initial startup after January 25, 1995 shall submit an initial notification (in addition to the notification of construction or reconstruction required by §63.345(b) as follows:

- (i) A notification of the date when construction or reconstruction was commenced, shall be submitted simultaneously with the notification of construction or reconstruction, if construction or reconstruction was commenced before January 25, 1995;
- (ii) A notification of the date when construction or reconstruction was commenced, shall be submitted no later than 30 calendar days after such date, if construction or reconstruction was commenced after January 25, 1995; and
- (iii) A notification of the actual date of startup of the source shall be submitted within 30 calendar days after such date.

(d) *Notification of performance test.* (1) The owner or operator of an affected source shall notify the Administrator in writing of his or her intention to conduct a performance test at least 60 calendar days before the test is scheduled to begin to allow the Administrator to have an observer present during the test. Observation of the performance test by the Administrator is optional.

(2) In the event the owner or operator is unable to conduct the performance test as scheduled, the provisions of §63.7(b)(2) apply.

(e) *Notification of compliance status.* (1) A notification of compliance status is required each time that an affected source becomes subject to the requirements of this subpart.

(2) If the State in which the source is located has not been delegated the authority to implement the rule, each time a notification of compliance status is required under this part, the owner or operator of an affected source shall submit to the Administrator a notification of compliance status, signed by the responsible official (as defined in §63.2) who shall certify its accuracy, attesting to whether the affected source has complied with this subpart. If the State has been delegated the authority, the notification of compliance status shall be submitted to the appropriate authority. The notification shall list for each affected source:

- (i) The applicable emission limitation and the methods that were used to determine compliance with this limitation;
 - (ii) If a performance test is required by this subpart, the test report documenting the results of the performance test, which contains the elements required by §63.344(a), including measurements and calculations to support the special compliance provisions of §63.344(e) if these are being followed;
 - (iii) The type and quantity of hazardous air pollutants emitted by the source reported in mg/dscm or mg/hr if the source is using the special provisions of §63.344(e) to comply with the standards. (If the owner or operator is subject to the construction and reconstruction provisions of §63.345 and had previously submitted emission estimates, the owner or operator shall state that this report corrects or verifies the previous estimate.) For sources not required to conduct a performance test in accordance with §63.343(b), the surface tension measurement may fulfill this requirement;
 - (iv) For each monitored parameter for which a compliant value is to be established under §63.343(c), the specific operating parameter value, or range of values, that corresponds to compliance with the applicable emission limit;
 - (v) The methods that will be used to determine continuous compliance, including a description of monitoring and reporting requirements, if methods differ from those identified in this subpart;
 - (vi) A description of the air pollution control technique for each emission point;
 - (vii) A statement that the owner or operator has completed and has on file the operation and maintenance plan as required by the work practice standards in §63.342(f);
 - (viii) If the owner or operator is determining facility size based on actual cumulative rectifier capacity in accordance with §63.342(c)(2), records to support that the facility is small. For existing sources, records from any 12-month period preceding the compliance date shall be used or a description of how operations will change to meet a small designation shall be provided. For new sources, records of projected rectifier capacity for the first 12-month period of tank operation shall be used;
 - (ix) A statement by the owner or operator of the affected source as to whether the source has complied with the provisions of this subpart.
- (3) For sources required to conduct a performance test by §63.343(b), the notification of compliance status shall be submitted to the Administrator no later than 90 calendar days following completion of the compliance demonstration required by §63.7 and §63.343(b).
- (4) For sources that are not required to complete a performance test in accordance with §63.343(b), the notification of compliance status shall be submitted to the Administrator no later than 30 days after the compliance date specified in §63.343(a), except the date on which sources in California shall monitor the surface tension of the anodizing bath is extended to January 25, 1998.
- (f) *Reports of performance test results.* (1) If the State in which the source is located has not been delegated the authority to implement the rule, the owner or operator of an affected source shall report to the Administrator the results of any performance test conducted as required by §63.7 or §63.343(b). If the State has been delegated the authority, the owner or operator of an affected source should report performance test results to the appropriate authority.

(2) Reports of performance test results shall be submitted no later than 90 days following the completion of the performance test, and shall be submitted as part of the notification of compliance status required by paragraph (e) of this section.

(h) *Ongoing compliance status reports for area sources.* The requirements of this paragraph do not alleviate affected area sources from complying with the requirements of State or Federal operating permit programs under 40 CFR part 71.

(1) The owner or operator of an affected source that is located at an area source site shall prepare a summary report to document the ongoing compliance status of the affected source. The report shall contain the information identified in paragraph (g)(3) of this section, shall be completed annually and retained on site, and made available to the Administrator upon request. The report shall be completed annually except as provided in paragraph (h)(2) of this section.

(2) *Reports of exceedances.* (i) If both of the following conditions are met, semiannual reports shall be prepared and submitted to the Administrator:

(A) The total duration of excess emissions (as indicated by the monitoring data collected by the owner or operator of the affected source in accordance with §63.343(c)) is 1 percent or greater of the total operating time for the reporting period; and

(B) The total duration of malfunctions of the add-on air pollution control device and monitoring equipment is 5 percent or greater of the total operating time.

(ii) Once an owner or operator of an affected source reports an exceedance as defined in paragraph (h)(2)(i) of this section, ongoing compliance status reports shall be submitted semiannually until a request to reduce reporting frequency under paragraph (h)(3) of this section is approved.

(iii) The Administrator 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.

(3) *Request to reduce frequency of ongoing compliance status reports.* (i) An owner or operator who is required to submit ongoing compliance status reports on a semiannual (or more frequent) basis, or is required to submit its annual report instead of retaining it on site, may reduce the frequency of reporting to annual and/or be allowed to maintain the annual report onsite if all of the following conditions are met:

(A) For 1 full year (e.g., 2 semiannual or 4 quarterly reporting periods), the ongoing compliance status reports demonstrate that the affected source is in compliance with the relevant emission limit;

(B) The owner or operator continues to comply with all applicable recordkeeping and monitoring requirements of subpart A of this part and this subpart; and

(C) The Administrator does not object to a reduced reporting frequency for the affected source, as provided in paragraphs (h)(3) (ii) and (iii) of this section.

(ii) The frequency of submitting ongoing compliance status reports may be reduced only after the owner or operator notifies the Administrator in writing of his or her intention to make such a change, and the Administrator does not object to the intended change. In deciding whether to approve a reduced reporting frequency, the Administrator may review information concerning the source's previous performance history during the 5-year recordkeeping period prior to the intended change, or the recordkeeping period since the source's compliance date, whichever is shorter. Records subject to review may include performance test results, monitoring data, and evaluations of an owner or operator's conformance with emission limitations and work practice standards. Such information may be used by the Administrator to make a judgement about the source's potential for noncompliance in the future. If the Administrator disapproves the owner or operator's request to reduce reporting frequency, the Administrator will notify the owner or operator in writing within 45 days after receiving notice of the owner or operator's intention. The notification from the Administrator to the owner or operator will specify the grounds on which the disapproval is based. In the absence of a notice of disapproval within 45 days, approval is automatically granted.

(iii) As soon as the monitoring data required by §63.343(c) show that the source is not in compliance with the relevant emission limit, the frequency of reporting shall revert to semiannual, and the owner shall state this exceedance in the ongoing compliance status report for the next reporting period. After demonstrating ongoing compliance with the relevant emission limit for another full year, the owner or operator may again request approval from the Administrator to reduce the reporting frequency as allowed by paragraph (h)(3) of this section.

(i) *Reports associated with trivalent chromium baths.* The requirements of this paragraph do not alleviate affected sources from complying with the requirements of State or Federal operating permit programs under title V. Owners or operators complying with the provisions of §63.342(e) are not subject to paragraphs (a) through (h) of this section, but must instead submit the following reports:

(1) Within 180 days after January 25, 1995, submit an initial notification that includes:

(i) The same information as is required by paragraphs (c)(1) (i) through (v) of this section; and

(ii) A statement that a trivalent chromium process that incorporates a wetting agent will be used to comply with §63.342(e); and

(iii) The list of bath components that comprise the trivalent chromium bath, with the wetting agent clearly identified; and

(2) Within 30 days of the compliance date specified in §63.343(a), a notification of compliance status that contains an update of the information submitted in accordance with paragraph (i)(1) of this section or a statement that the information is still accurate; and

(3) Within 30 days of a change to the trivalent chromium electroplating process, a report that includes:

(i) A description of the manner in which the process has been changed and the emission limitation, if any, now applicable to the affected source;

(ii) If a different emission limitation applies, the applicable information required by paragraph (c)(1) of this section; and

(iii) The notification and reporting requirements of paragraphs (d), (e), (f), (g), and (h) of this section, which shall be submitted in accordance with the schedules identified in those paragraphs.

§ 63.348 Implementation and enforcement.

(a) This subpart can be implemented and enforced by the U.S. EPA, or a delegated authority such as the applicable State, local, or Tribal agency. If the U.S. EPA Administrator has delegated authority to a State, local, or Tribal agency, then that agency, in addition to the U.S. EPA, has the authority to implement and enforce this subpart. Contact the applicable U.S. EPA Regional Office to find out if implementation and enforcement of this subpart is delegated to a State, local, or Tribal agency.

(b) In delegating implementation and enforcement authority of this subpart to a State, local, or Tribal agency under subpart E of this part, the authorities contained in paragraph (c) of this section are retained by the Administrator of U.S. EPA and cannot be transferred to the State, local, or Tribal agency.

(c) The authorities that cannot be delegated to State, local, or Tribal agencies are as specified in paragraphs (c)(1) through (4) of this section.

(1) Approval of alternatives to the requirements in §§63.340, 63.342(a) through (e) and (g), and 63.343(a).

(2) Approval of major alternatives to test methods under §63.7(e)(2)(ii) and (f), as defined in §63.90, and as required in this subpart.

(3) Approval of major alternatives to monitoring under §63.8(f), as defined in §63.90, and as required in this subpart.

(4) Approval of major alternatives to recordkeeping and reporting under §63.10(f), as defined in §63.90, and as required in this subpart.

Table 1 to Subpart N of Part 63—General Provisions Applicability to Subpart N

| General provisions reference | Applies to subpart N | Comment |
|------------------------------|----------------------|---|
| 63.1(a)(1)..... | Yes..... | Additional terms defined in § 63.341; when overlap between subparts A and N occurs, subpart N takes precedence. |
| 63.1(a)(2)..... | Yes | |
| 63.1(a)(3)..... | Yes | |
| 63.1(a)(4)..... | Yes..... | Subpart N clarifies the applicability of each paragraph in subpart A to sources subject to subpart N. |
| 63.1(a)(6)..... | Yes | |
| 63.1(a)(7)..... | Yes | |
| 63.1(a)(8)..... | Yes | |
| 63.1(a)(10)..... | Yes | |
| 63.1(a)(11)..... | Yes..... | § 63.347(a) of subpart N also allows report submissions via fax and on electronic media. |
| 63.1(a)(12)-(14)..... | Yes | |
| 63.1(b)(1)..... | No..... | § 63.340 of subpart N specifies applicability. |
| 63.1(b)(2)..... | Yes | |

63.1(b)(3)..... No.....

This provision in subpart A is being deleted. Also, all affected area and major sources are subject to subpart N; there are no exemptions.

63.1(c)(1)..... Yes.....

Subpart N clarifies the applicability of each paragraph in subpart A to sources subject to subpart N.

63.1(c)(2)..... Yes.....

§ 63.340(e) of Subpart N exempts area sources from the obligation to obtain Title V operating permits.

63.1(c)(4)..... Yes

63.1(c)(5)..... No.....

Subpart N clarifies that an area source that becomes a major source is subject to the requirements for major sources.

63.1(e)..... Yes

63.2..... Yes.....

Additional terms defined in § 63.341; when overlap between subparts A and N occurs, subpart N takes precedence.

63.3..... Yes.....

Other units used in subpart N are defined in that subpart.

63.4..... Yes

63.5(a)..... Yes.....

Except replace the term "source" and "stationary source" in § 63.5(a) (1) and (2) of subpart A with "affected sources."

63.5(b)(1)..... Yes

63.5(b)(3)..... Yes.....

Applies only to major affected sources.

63.5(b)(4)..... No.....

Subpart N (§ 63.345) specifies requirements for the notification of construction or reconstruction for affected sources that are not major.

63.5(b)(5)..... Yes

63.5(b)(6)..... Yes

63.5(d)(1)(i)..... No.....

§ 63.345(c)(5) of subpart N specifies when the application or notification shall be submitted.

63.5(d)(1)(ii)..... Yes.....

Applies to major affected sources that are new or reconstructed.

63.5(d)(1)(iii)..... Yes.....

Except information should be submitted with the Notification of Compliance Status required by § 63.347(e) of subpart N.

| | | |
|-------------------------|----------|---|
| 63.5(d)(2)..... | Yes..... | Applies to major affected sources that are new or reconstructed except: (1) replace "source" in § 63.5(d)(2) of subpart A with "affected source"; and (2) actual control efficiencies are submitted with the Notification of Compliance Status required by § 63.347(e). |
| 63.5(d)(3)-(4)..... | Yes..... | Applies to major affected sources that are new or reconstructed. |
| 63.5(e)..... | Yes..... | Applies to major affected sources that are new or reconstructed. |
| 63.5(f)(1)..... | Yes..... | Except replace "source" in § 63.5(f)(1) of subpart A with "affected source." |
| 63.5(f)(2)..... | No..... | New or reconstructed affected sources shall submit the request for approval of construction or reconstruction under § 63.5(f) of subpart A by the deadline specified in § 63.345(c)(5) of subpart N. |
| 63.6(a)..... | Yes | |
| 63.6(b)(1)-(2)..... | Yes..... | Except replace "source" in § 63.6(b)(1)-(2) of part A with "affected source." |
| 63.6(b)(3)-(4)..... | Yes | |
| 63.6(b)(5)..... | Yes..... | Except replace "source" in § 63.6(b)(5) of subpart A with "affected source." |
| 63.6(b)(7)..... | No..... | Provisions for new area sources that become major sources are contained in § 63.343(a)(4) of subpart N. |
| 63.6(c)(1)-(2)..... | Yes..... | Except replace "source" in § 63.6(c)(1)-(2) of subpart A with "affected source." |
| 63.6(c)(5)..... | No..... | Compliance provisions for existing area sources that become major sources are contained in § 63.343(a)(3) of subpart N. |
| 63.6(e)..... | No..... | § 63.342(f) of subpart N contains work practice standards (operation and maintenance requirements) that override these provisions. |
| 63.6(f)(1)..... | No..... | § 63.342(b) of subpart N specifies when the standards apply. |
| 63.6(f)(2)(i)-(ii)..... | Yes | |

63.6(f)(2)(iii)..... No.....

§ 63.344(b) of subpart N specifies instances in which previous performance test results for existing sources are acceptable.

63.6(f)(2)(iv)..... Yes

63.6(f)(2)(v)..... Yes

63.6(f)(3)..... Yes

63.6(g)..... Yes

63.6(h)..... No.....

Subpart N does not contain any opacity or visible emission standards.

63.6(i)(1)..... Yes

63.6(i)(2)..... Yes.....

Except replace ``source" in § 63.6(i)(2)(i) and (ii) of subpart A with ``affected source."

63.6(i)(3)..... Yes

63.6(i)(4)(i)..... No.....

§ 63.343(a)(6) of subpart N specifies the procedures for obtaining an extension of compliance and the date by which such requests must be submitted.

63.6(i)(4)(ii)..... Yes

63.6(i)(5)..... Yes

63.6(i)(6)(i)..... Yes.....

This paragraph only references ``paragraph (i)(4) of this section" for compliance extension provisions. But, § 63.343(a)(6) of subpart N also contains provisions for requesting a compliance extension.

63.6(i)(6)(ii)..... Yes

63.6(i)(7)..... Yes

63.6(i)(8)..... Yes.....

This paragraph only references ``paragraphs (i)(4) through (i)(6) of this section" for compliance extension provisions. But, § 63.343(a)(6) of subpart N also contains provisions for requesting a compliance extension.

63.6(i)(9)..... Yes.....

This paragraph only references ``paragraphs (i)(4) through (i)(6) of this section" and ``paragraphs (i)(4) and (i)(5) of this section" for compliance extension provisions. But, § 63.343(a)(6) of subpart N also contains provisions for requesting a compliance extension.

63.6(i)(10)(i)-(iv)..... Yes

63.6(i)(10)(v)(A)..... Yes.....

This paragraph only references
`paragraph (i)(4)" for
compliance extension provisions.
But, § 63.343(a)(6) of
subpart N also contains
provisions for requesting a
compliance extension.

63.6(i)(10)(v)(B)..... Yes

63.6(i)(11)..... Yes

63.6(i)(12)(i)..... Yes.....

This paragraph only references
`paragraph (i)(4)(i) or (i)(5)
of this section" for compliance
extension provisions. But,
§ 63.343(a)(6) of subpart N
also contains provisions for
requesting a compliance
extension.

63.6(i)(12)(ii)-(iii)..... Yes

63.6(i)(13)..... Yes

63.6(i)(14)..... Yes

63.6(i)(16)..... Yes

63.6(j)..... Yes

63.7(a)(1)..... Yes

63.7(a)(2)(i)-(vi)..... Yes

63.7(a)(2)(ix)..... Yes

63.7(a)(3)..... Yes

63.7(b)(1)..... No.....

§ 63.347(d) of subpart N
requires notification prior to
the performance test. § 63.344(a)
of subpart N requires
submission of a site-specific
test plan upon request.

63.7(b)(2)..... Yes

63.7(c)..... No.....

§ 63.344(a) of subpart N
specifies what the test plan
should contain, but does not
require test plan approval or
performance audit samples.
Except replace `source" in the
first sentence of § 63.7(d)
of subpart A with `affected
source."

63.7(d)..... Yes.....

Subpart N also contains test
methods specific to affected
sources covered by that subpart.
§ 63.344(c)(2) of subpart N
identifies CARB Method 425 as
acceptable under certain
conditions.

63.7(e)..... Yes.....

63.7(f)..... Yes.....

Subpart N identifies the items to
be reported in the compliance
test [§ 63.344(a)] and the
timeframe for submitting the
results [§ 63.347(f)].

63.7(g)(1)..... No.....

63.7(g)(3)..... Yes

63.7(h)(1)-(2)..... Yes

63.7(h)(3)(i)..... Yes.....

This paragraph only references
"§ 63.6(i)" for
compliance extension provisions.
But, § 63.343(a)(6) of
subpart N also contains
provisions for requesting a
compliance extension.

63.7(h)(3)(ii)-(iii)..... Yes

63.7(h)(4)-(5)..... Yes

63.8(a)(1)..... Yes

63.8(a)(2)..... No.....

Work practice standards are
contained in § 63.342(f) of
subpart N.

63.8(a)(4)..... No

63.8(b)(1)..... Yes

63.8(b)(2)..... No.....

§ 63.344(d) of subpart N
specifies the monitoring
location when there are multiple
sources.

63.8(b)(3)..... No.....

§ 63.347(g)(4) of subpart N
identifies reporting
requirements when multiple
monitors are used.

63.8(c)(1)(i)..... No.....

Subpart N requires proper
maintenance of monitoring
devices expected to be used by
sources subject to subpart N.

63.8(c)(1)(ii)..... No.....

§ 63.342(f)(3)(iv) of
subpart N specifies reporting
when the O&M plan is not
followed.

63.8(c)(1)(iii)..... No.....

§ 63.343(f)(2) identifies
the criteria for whether O&M
procedures are acceptable.

63.8(c)(2)-(3)..... No.....

§ 63.344(d)(2) requires
appropriate use of monitoring
devices.

63.8(c)(4)-(7)..... No

63.8(d)..... No.....

Maintenance of monitoring devices
is required by §§ 63.342(f)
and 63.344(d)(2) of
subpart N.

63.8(e)..... No.....

There are no performance
evaluation procedures for the
monitoring devices expected to
be used to comply with subpart
N.

63.8(f)(1)..... Yes

63.8(f)(2)..... No.....

Instances in which the
Administrator may approve
alternatives to the monitoring
methods and procedures of
subpart N are contained in
§ 63.343(c)(8) of subpart
N.

63.8(f)(3)..... Yes

63.9(h)(1)-(3)..... No.....

§ 63.347(e) of subpart N specifies information to be contained in the notification of compliance status and the timeframe for submitting this information.

63.9(h)(5)..... No.....

Similar language has been incorporated into § 63.347(e)(2)(iii) of subpart N.

63.9(h)(6)..... Yes

63.9(i)..... Yes

63.9(j)..... Yes

63.10(a)..... Yes

63.10(b)(1)..... Yes

63.10(b)(2)..... No.....

§ 63.346(b) of subpart N specifies the records that must be maintained.

63.10(b)(3)..... No.....

Subpart N applies to major and area sources.

63.10(c)..... No.....

Applicable requirements of § 63.10(c) have been incorporated into § 63.346(b) of subpart N.

63.10(d)(1)..... Yes

63.10(d)(2)..... No.....

§ 63.347(f) of subpart N specifies the timeframe for reporting performance test results.

63.10(d)(3)..... No.....

Subpart N does not contain opacity or visible emissions standards.

63.10(d)(4)..... Yes

63.10(d)(5)..... No.....

§ 63.342(f)(3)(iv) and § 63.347(g)(3) of subpart N specify reporting associated with malfunctions.

63.10(e)..... No.....

§ 63.347(g) and (h) of subpart N specify the frequency of periodic reports of monitoring data used to establish compliance. Applicable requirements of § 63.10(e) have been incorporated into § 63.347(g) and (h).

63.10(f)..... Yes

63.11..... No.....

Flares will not be used to comply with the emission limits.

63.12-63.15..... Yes

D.3.3 State Only National Emission Standards for Chromium Emissions From Hard and Decorative Chromium Electroplating and Chromium Anodizing Tanks Requirements [326 IAC 20-8]

Pursuant to 326 IAC 20-8, the Permittee shall comply with the provisions of the July 1, 2005 version of 40 CFR Part 63, Subpart N, which are incorporated by reference as 326 IAC 20-8, for the hard chrome electroplating tanks, identified as HC-1 and HC-2. The Permittee shall comply with the provisions of 40 CFR Part 63, Subpart N, as listed in Condition D.3.2, except the Permittee shall follow the more stringent requirements of the July 1, 2005 version, as incorporated into 326 IAC 20-8, as specified as follows.

§ 63.342 Standards.

* * * *

(f) * * *

(1)(i) At all times, including periods of startup, shutdown, and malfunction, owners or operators shall operate and maintain any affected source, including associated air pollution control devices and monitoring equipment, in a manner consistent with good air pollution control practices, consistent with the operation and maintenance plan required by paragraph (f)(3) of this section.

(ii) Malfunctions shall be corrected as soon as practicable after their occurrence in accordance with the operation and maintenance plan required by paragraph (f)(3) of this section.

* * *

(3) *Operation and maintenance plan.*

(i) The owner or operator of an affected source subject to paragraph (f) of this section shall prepare an operation and maintenance plan to be implemented no later than the compliance date, except for hard chromium electroplaters and the chromium anodizing operations in California which have until January 25, 1998. The plan shall be incorporated by reference into the source's title V permit, if and when a title V permit is required. The plan shall include the following elements:

* * *

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

**MINOR SOURCE OPERATING PERMIT
ANNUAL NOTIFICATION**

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

| | |
|----------------------|-----------------------------|
| Company Name: | Micromatic, LLC |
| Address: | 525 Berne Street |
| City: | Berne, Indiana 46711 |
| Phone #: | (260) 589-2136 |
| MSOP #: | 001-20799-00033 |

I hereby certify that **Micromatic, LLC** is still in operation.
 no longer in operation.

I hereby certify that **Micromatic, LLC** is
 in compliance with the requirements of MSOP 001-20799-00033.
 not in compliance with the requirements of MSOP 001-20799-00033.

| |
|---------------------------------------|
| 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
FAX NUMBER - 317 233-6865**

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

THIS FACILITY MEETS THE APPLICABILITY REQUIREMENTS BECAUSE IT HAS POTENTIAL TO EMIT 25 TONS/YEAR PARTICULATE MATTER ?_____, 25 TONS/YEAR SULFUR DIOXIDE ?_____, 25 TONS/YEAR NITROGEN OXIDES?_____, 25 TONS/YEAR VOC ?_____, 25 TONS/YEAR HYDROGEN SULFIDE ?_____, 25 TONS/YEAR TOTAL REDUCED SULFUR ?_____, 25 TONS/YEAR REDUCED SULFUR COMPOUNDS ?_____, 25 TONS/YEAR FLUORIDES ?_____, 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 PERM LIMIT OF _____

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

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

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

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

ESTIMATED HOURS OF OPERATION WITH MALFUNCTION CONDITION:

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

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

ESTIMATED AMOUNT OF POLLUTANT EMITTED DURING MALFUNCTION: _____

MEASURES TAKEN TO MINIMIZE EMISSIONS: _____

REASONS WHY FACILITY CANNOT BE SHUTDOWN DURING REPAIRS:

CONTINUED OPERATION REQUIRED TO PROVIDE ESSENTIAL* SERVICES: _____

CONTINUED OPERATION NECESSARY TO PREVENT INJURY TO PERSONS: _____

CONTINUED OPERATION NECESSARY TO PREVENT SEVERE DAMAGE TO EQUIPMENT: _____

INTERIM CONTROL MEASURES: (IF APPLICABLE) _____

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

MALFUNCTION RECORDED BY: _____ DATE: _____ TIME: _____

*SEE PAGE 2

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

326 IAC 1-6-1 Applicability of rule

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

326 IAC 1-2-39 "Malfunction" definition

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

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

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

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

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

Source Name: Micromatic, LLC
 Source Address: 525 Berne Street, Berne, Indiana 46711
 Mailing Address: 525 Berne Street, Berne, Indiana 46711
 MSOP Permit No.: 001-20799-00033

Tank ID #: HC-1 and HC-2
 Type of process: Hard Chromium Electroplating
 Monitoring Parameter: Surface tension at each tank
 Parameter Value: 45 dynes per centimeter for electroplating tanks HC-1 and HC-2
 Limits: The upper limit on surface tension is 45 dynes per centimeter at Tank HC-1 and 45 dynes per centimeter at Tank HC-2 as established during testing on June 4, 1996.

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

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

This form consists of 2 pages Page 1 of 2

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

| |
|---|
| MAJOR AND AREA SOURCES: CHECK ONE |
| <input type="radio"/> 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="radio"/> 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 AND ANODIZING 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**

**MINOR SOURCE OPERATING PERMIT (MSOP)
CERTIFICATION**

Source Name: Micromatic, LLC
Source Address: 525 Berne Street, Berne, Indiana 46711
Mailing Address: 525 Berne Street, Berne, Indiana 46711
MSOP Permit No.: 001-20799-00033

This certification shall be included when submitting monitoring, testing reports/results or other documents as required by this permit.

Please check what document is being certified:

- Annual Compliance Notification
- Test Result (specify) _____
- Report (specify) _____
- Notification (specify) _____
- Affidavit (specify) _____
- Other (specify) _____

I certify that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

Signature:

Printed Name:

Title/Position:

Date:

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

Technical Support Document (TSD) for a
Minor Source Operating Permit Renewal

Source Background and Description

| | |
|--|---|
| Source Name: | Micromatic, LLC |
| Source Location: | 525 Berne Street, Berne, Indiana 46711 |
| County: | Adams |
| SIC Code: | 3471, 3541, & 3599 |
| Operation Permit No.: | M001-11722-00033 |
| Operation Permit Issuance Date: | June 6, 2000 |
| Permit Renewal No.: | M001-20799-00033 |
| Permit Reviewer: | Tanya White/EVP |

The Office of Air Quality (OAQ) has reviewed a renewal application from Micromatic, LLC (formerly owned and operated by Micromatic Operations, Inc.) relating to the operation of a stationary hard chromium electroplating and metal anodizing/metal finishing source. The source previously operated under MSOP 001-11722-00033, which was issued on June 6, 2000.

History

On August 26, 2005 Micromatic Operations, Inc. (currently owned and operated by Micromatic, LLC) sold its honing tool product line (including two hard chromium electroplating tanks, two pneumatic blasters, one tabletop-scale nickel electroplating process, and masking and solvent cleaning operations) to Bates Technologies, Inc. These units were operated by Bates Technologies, Inc. at the existing Micromatic, LLC plant located at 525 Berne Street until March, 2006. In March 2006, Bates Technologies sold the two hard chromium electroplating tanks and one of the two pneumatic blasters back to Micromatic, LLC. The other equipment including one of the two pneumatic blasters, one tabletop-scale nickel electroplating process, and masking and solvent cleaning operations are no longer located at the Micromatic's plant at 525 Berne Street, but will be operated by Bates Technologies, Inc. at their Fishers, Indiana plant.

Permitted Emission Units and Pollution Control Equipment

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

- (a) One (1) paint booth used for metal coating, identified as West paint booth, using dry filters for overspray control, and exhausting to stack 23. West paint booth was installed prior to July 1, 1990;
- (b) One (1) paint booth used for metal coating, identified as North paint booth, using dry filters for overspray control, and exhausting to stack 25. North paint booth was installed prior to November 1, 1980;
- (c) Two (2) pneumatic blasters identified as #15 and #16, with particulate emissions from each blaster controlled by a cyclone and baghouse (grain loading of < 0.03 grains per dry standard cubic feet of air each). The pneumatic blasters were installed prior to 1977;

- (d) Degreasing operations consisting of seven (7) small parts washers, all equipped with remote solvent reservoirs, with the following capacities: three (3) 8 gallons, one (1) 18 gallons, and three (3) 25 gallons. The degreasers were installed prior to 1977;
- (e) One (1) hard chromium electroplating operation with a maximum cumulative rectifier capacity of 11,760,000 Ampere-hours (A-hr) consisting of:
 - (1) Two (2) hard chromium electroplating tanks, identified as HC-1 and HC-2, equipped with one (1) Fumitrol® fume suppressant, and exhausting to one (1) stack, identified as 5. Under NESHAP Subpart N, Tank HC-1 and HC-2 are considered open surface hard chrome plating tanks. The electroplating tanks were installed in 1960;
- (f) Welding operation; two (2) metal inert gas (MIG) stations, each with a maximum wire consumption rate of 6.3 pounds of wire per hour (lb wire/hr), one (1) tungsten inert gas (TIG) station, with a maximum wire consumption rate of 6.0 lb wire/hr, one (1) oxyacetylene flame cutter, with a maximum cutting rate of 6 inches per minute, and one (1) plasma cutter, with a maximum cutting rate of 10 inches per minute. The welding operations were installed prior to 1977;
- (g) One (1) sulfuric acid anodizing operation exhausting to stack 9. The anodizing operation was installed in 1960;
- (h) Miscellaneous combustion units consisting of:
 - (1) Fourteen (14) natural gas fired space heaters with a maximum heat input capacity of 0.2 MMBtu/hr each;
 - (2) Four (4) natural gas fired space heaters with a maximum heat input capacity of 0.225 MMBtu/hr each;
 - (3) Four (4) natural gas fired space heaters with a maximum heat input capacity of 0.3 MMBtu/hr each;
 - (4) Three (3) natural gas fired space heaters with a maximum heat input capacity of 0.291 MMBtu/hr each;
 - (5) Five (5) natural gas fired space heaters with a maximum heat input capacity of 0.09315 MMBtu/hr each;
 - (6) One (1) natural gas fired space heater with a maximum heat input capacity of 0.147 MMBtu/hr;
 - (7) One (1) natural gas fired space heater with a maximum heat input capacity of 0.075 MMBtu/hr;
 - (8) Three (3) natural gas fired space heaters with a maximum heat input capacity of 0.0819 MMBtu/hr each;
 - (9) One (1) natural gas fired oven with a maximum heat input capacity of 0.175 MMBtu/hr;
 - (10) One (1) waste oil drier/evaporator with a maximum heat input capacity of 0.15 MMBtu/hr.

The following equipment and/or pollution control devices have been removed from the permit:

- (a) One (1) pneumatic blaster identified as # 14;
- (b) One (1) Tabletop-Scale Nickel Electroplating Process, using a maximum of ten (10) plating tanks with a current of 10 ampere for each tank;
- (c) Masking and, solvent cleaning operations with a capacity of 4 wheels per shift.

Existing Approvals

The source has been operating under MSOP 001-11722-00033, issued on June 6, 2000, and previous approvals, including, but not limited to, the following:

- (a) Notice Only 001-16760-00033, First Notice – Only Change, issued on February 21, 2003.
- (b) Notice Only 001-16938-00033, Second Notice – Only Change, issued on May 1, 2003.

Conditions from previous approvals were incorporated into this MSOP except for the following:

1. Reason not incorporated: Condition D.2.1: Particulate Matter (PM) [326 IAC 6-3]
On June 12, 2002, revisions to this rule, that include specific requirements for surface coating under 326 IAC 6-3-2(d), became effective. Therefore, the particulate emission rate limitation is no longer applicable to the surface coating operations. The welding operations are exempt from 326 IAC 6-3-2. See State Rule Applicability – Individual Facility Section.
2. Reason not incorporated: Condition D.2.2 : Volatile Organic Compounds (VOCs) [326 IAC 8-2-9]
IDEM determined that the spray surface coating operations are not subject to 326 IAC 8-2-9. The North paint booth was installed prior to November 1, 1980 and it is not located in one of the identified counties under 326 IAC 8-2-9(a)(1) or 326 IAC 8-2-9(a)(3) and the West paint booth has actual emissions of VOC less than 15 pounds per day. See State Rule Applicability – Individual Facility Section.
3. Reason not incorporated: Condition D.2.6 : Baghouse Inspections
Permit Condition D.2.6 was removed from the permit because the source is no longer required to perform baghouse inspections.
4. Reason not incorporated: Volatile Organic Compounds (VOCs) [326 IAC 8-3-5]
Condition D.3.2 has been removed from the permit because the seven (7) cold cleaner degreasers at the source are not subject to the requirements of 326 IAC 8-3-5 because each degreaser has a remote solvent reservoir. See State Rule Applicability – Individual Facility Section.

Enforcement Issue

There are no enforcement actions pending.

Stack Summary

| Stack ID | Operation | Height (feet) | Diameter (feet) | Flow Rate (acfm) | Temperature (°F) |
|----------|---|---------------|-----------------|------------------|------------------|
| 5 | Chromium Electroplating | 26 | 1.33 | 5000 | 72 |
| 25 | North Paint booth | 33.0 | 2.8" x 2.8" | 12,000 | 72 |
| 23 | West Paint booth | 30.5 | 3.0" x 3.0" | 15,500 | 72 |
| 9 | Biosolv Degreasing, Sulfuric Acid Anodizing | 18.3 | 0.67 | 5,000 | 120 |
| 24 | Alkaline Cleaner | 26.7 | 1.8' x 2.0' | 2,150 | 140 |

Recommendation

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

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

An application for the purposes of this review was received on February 14, 2005, with additional information received June 23 and June 29, 2006.

Emission Calculations

See Appendix A, (pages 1 through 9) of this document for detailed emission calculations for welding/thermal cutting, surface coating, cold cleaner degreasing, abrasive blasting, natural gas combustion, sulfuric acid operation, and hard chromium electroplating operations.

Potential to Emit 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 | 57.73 |
| PM-10 | 41.45 |
| SO ₂ | 0.02 |
| VOC | 4.16 |
| CO | 2.59 |
| NO _x | 3.08 |

| HAP | Potential To Emit (tons/year) |
|------------------------|-------------------------------|
| Chromium Compounds | 0.01 |
| Xylene | 3.13 |
| Toluene | 1.10 |
| Methanol | 0.17 |
| Methyl Isobutyl Ketone | 0.08 |
| Glycol Ethers | 0.39 |
| Ethyl benzene | 0.55 |
| Hexane | 0.06 |
| Total HAPs | Less than 25 |

- (a) The potential to emit of all criteria pollutants are less than 100 tons per year. The potential to emit of any single HAP is less than ten (10) tons per year and the potential to emit of a combination of HAPs is less than twenty-five (25) tons per year. Therefore, the source is not subject to the provisions of 326 IAC 2-7.
- (b) The potential to emit of PM and PM10 is greater than 25 tons per year. Therefore, the source is subject to the provisions of 326 IAC 2-6.1. An MSOP will be issued.
- (c) This source is not subject to 326 IAC 20-8 or 326 IAC 2-5.5-1(b)(2) (registration) because the source does not operate any decorative chromium electroplating tanks and the source emits less than major source levels (see statement (a) above). This source is subject to the provisions of 326 IAC 2-6.1-3(a). Therefore an MSOP will be issued.
- (d) 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 applicability.

County Attainment Status

The source is located in Adams County.

| Pollutant | Status |
|-----------------|------------|
| PM-10 | attainment |
| PM-2.5 | attainment |
| SO ₂ | attainment |
| NO ₂ | attainment |
| 8 Hour - Ozone | attainment |
| CO | attainment |
| Lead | attainment |

- (a) On October 25, 2006, the Indiana Air Pollution Control Board finalized a rule revision to 326 IAC 1-4-1 redesignating Delaware, Greene, Jackson, Vanderburgh, Vigo and Warrick Counties to attainment for the eight-hour ozone standard, redesignating Lake County to attainment for the sulfur dioxide standard, and revoking the one-hour ozone standard in Indiana.

- (b) 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. Adams County has been designated as attainment for the 8-hour ozone standard. Therefore, VOC and NOx emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2. See the State Rule Applicability for the source section.
- (c) Adams County has been classified as attainment or unclassifiable for PM-2.5. U.S. EPA has not yet established the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2 for PM 2.5 emissions. Therefore, until the U.S.EPA adopts specific provisions for PSD review for PM2.5 emissions, it has directed states to regulate PM10 emissions as surrogate for PM2.5 emissions. See the State Rule Applicability for the source section.
- (d) Adams County has been classified as attainment or unclassifiable in Indiana for all other criteria pollutants. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2. See the State Rule Applicability for the source section.

Source Status

Existing Source PSD Definition (emissions after controls, based on 8,760 hours of operation per year at rated capacity and/or as otherwise limited):

| Pollutant | Emissions (ton/yr) |
|------------------|--------------------|
| PM | 3.97 |
| PM10 | 3.32 |
| SO ₂ | 0.02 |
| VOC | 4.16 |
| CO | 2.59 |
| NO _x | 3.08 |
| Single HAP | Less than 10 |
| Combination HAPs | Less than 25 |

This existing source is not a major stationary source for PSD purposes 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

Part 70 Permit Determination

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.

Although this source is subject to the National Emission Standards for Hazardous Air Pollutants (NESHAPs), 326 IAC 14, (40 CFR 63, Subpart N), a Title V permit is not required pursuant to 40 CFR 63.340(e). See the Federal Rule Applicability section.

Federal Rule Applicability

- (a) There are no New Source Performance Standards (NSPS) (326 IAC 12 and 40 CFR 60, Subpart Dc) included in this permit.
- (b) The cold cleaner degreaser is not subject to the requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAPs), Subpart T because it does not use any solvent containing methylene chloride, perchloroethylene, trichloroethylene, 1,1,1-trichloroethane, carbon tetrachloride or chloroform. Therefore, these requirements are not included in this permit.
- (c) Pursuant to 40 CFR 63.3881(b) the two (2) paint booth operations, used for metal surface coating, are not subject to the National Emission Standards for Hazardous Air Pollutants (NESHAP), Subpart Mmmm because the source is not a major source of HAPs. Therefore, these requirements are not included in this permit.
- (d) The hard chrome electroplating tanks, identified as Tank HC-1 and Tank HC-2 are subject to the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Chromium Emissions from Hard and Decorative Chromium Electroplating and Chromium Anodizing Tanks, (40 CFR 63.340, Subpart N).

The hard chrome electroplating tanks, identified as Tank HC-1 and Tank HC-2, are open surface hard chromium electroplating tanks, located at a small, hard chromium electroplating facility. The Permittee uses a fume suppressant for control. The surface tension is measured to show compliance. The Permittee tested the tanks on June 4, 1996. The testing developed the upper limit on surface tension as 45 dynes per centimeter at Tank HC-1 and 45 dynes per centimeter at Tank HC-2. The Permittee has conducted all initial testing and notifications.

Pursuant to 40 CFR 63.340(e), any source that is an area source and is subject to this subpart is exempt from the obligation to obtain a permit under 40 CFR part 70 or 71, provided that the source is not required to obtain a permit under 40 CFR 70.3(a) or 71.3(a) for a reason other than status as an area source under this subpart. Notwithstanding the previous sentence, you must continue to comply with the provisions of this subpart applicable to area sources.

Non applicable portions of the NESHAP will not be included in the permit. The hard chrome electroplating tanks, identified as Tank HC-1 and Tank HC-2, are subject to the following portions of Subpart N.

- (1) 40 CFR 63.340 (a).
- (2) 40 CFR 63.340 (b).
- (3) 40 CFR 63.340 (e).
- (4) 40 CFR 63.341.
- (5) 40 CFR 63.342 (a).
- (6) 40 CFR 63.342 (b)(1).
- (7) 40 CFR 63.342 (c)(1)(iii).
- (8) 40 CFR 63.342 (f)(1).
- (9) 40 CFR 63.342 (f)(2).
- (10) 40 CFR 63.342 (f)(3)(i)(A).
- (11) 40 CFR 63.342 (f)(3)(i)(C).

- (12) 40 CFR 63.342 (f)(3)(i)(D).
- (13) 40 CFR 63.342 (f)(3)(i)(E).
- (14) 40 CFR 63.342 (f)(3)(ii).
- (15) 40 CFR 63.342 (f)(3)(iii).
- (16) 40 CFR 63.342 (f)(3)(iv).
- (17) 40 CFR 63.342 (f)(3)(v).
- (18) 40 CFR 63.342 (f)(3)(vi).
- (19) 40 CFR 63.342 (g).
- (20) Table 1 Stalagmometer Requirement
- (21) 40 CFR 63.343 (a)(1)(ii).
- (22) 40 CFR 63.343 (a)(3).
- (23) 40 CFR 63.343 (a)(4).
- (24) 40 CFR 63.343 (a)(5).
- (25) 40 CFR 63.343 (a)(6).
- (26) 40 CFR 63.343 (b)(1).
- (27) 40 CFR 63.343 (c)(5).
- (28) 40 CFR 63.344 (a).
- (29) 40 CFR 63.344 (b).
- (30) 40 CFR 63.344 (c).
- (31) 40 CFR 63.344 (d)(1).
- (32) 40 CFR 63.344 (d)(2)(excluding i or ii).
- (33) 40 CFR 63.344 (d)(3).
- (34) 40 CFR 63.346 (a).
- (35) 40 CFR 63.346 (b)(1).
- (36) 40 CFR 63.346 (b)(2).
- (37) 40 CFR 63.346 (b)(3).
- (38) 40 CFR 63.346 (b)(4).
- (39) 40 CFR 63.346 (b)(5).
- (40) 40 CFR 63.346 (b)(6).
- (41) 40 CFR 63.346 (b)(7).
- (42) 40 CFR 63.346 (b)(8).
- (43) 40 CFR 63.346 (b)(9).
- (44) 40 CFR 63.346 (b)(10).
- (45) 40 CFR 63.346 (b)(11).
- (46) 40 CFR 63.346 (b)(13).
- (47) 40 CFR 63.346 (b)(16).
- (48) 40 CFR 63.346 (c).
- (49) 40 CFR 63.347 (a).
- (50) 40 CFR 63.347 (b).
- (51) 40 CFR 63.347 (c).
- (52) 40 CFR 63.347 (d).
- (53) 40 CFR 63.347 (e).
- (54) 40 CFR 63.347 (f).
- (55) 40 CFR 63.347 (h).
- (56) 40 CFR 63.348.

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

State Rule Applicability – Entire Source

326 IAC 2-2 (Prevention of Significant Deterioration)

The source is not one of the twenty-eight (28) listed source categories, the source is located in Adams County, and the potential to emit of each regulated pollutant is less than 250 tons per year.

This source is not a major source pursuant to 326 IAC 2-2, PSD, and the requirements of 326 IAC 2-2 are not applicable.

326 IAC 2-4.1-1 (New Source Toxics Control)

Since the potential to emit each individual hazardous air pollutant (HAP) is less than ten (10) tons per year and the potential to emit a combination of HAPs is less than 25 tons per year, the requirements of 326 IAC 2-4.1-1 are not applicable.

326 IAC 2-6 (Emission Reporting)

Pursuant to 326 IAC 2-6-1, this source is not subject to this rule because it is not required to have an operating permit under 326 IAC 2-7 (Part 70), it is not located in Lake or Porter counties, and it does not emit lead into the ambient air at levels equal to or greater than 5 tons per year. Therefore, 326 IAC 2-6 does not apply.

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 the permit:

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

State Rule Applicability – Individual Facilities

326 IAC 6-2 (Particulate Emissions Limitations for Sources of Indirect Heating)

Since there are no boilers, or sources of indirect heating at this source, the requirements of 326 IAC 6-2 are not applicable.

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

- (a) Particulate from surface coating (West and North paint booths) shall be controlled by a dry particulate filter and the Permittee shall operate the control device in accordance with manufacturer's specifications.

If overspray is visibly detected at the exhaust or accumulates on the ground, the Permittee shall inspect the control device and do either of the following no later than four (4) hours after such observation:

Repair control device so that no overspray is visibly detectable at the exhaust or accumulates on the ground.

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

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

- (b) Pursuant to 326 IAC 6-3-1(b)(14), since the potential to emit of particulate matter emissions from welding operations are less than 0.551 pounds per hour, the requirements of 326 IAC 6-3 are not applicable.

- (c) The particulate matter (PM) from each of the two (2) pneumatic blasters (# 15 and #16) shall be limited to 1.83 pounds per hour when operating at a maximum process weight rate of 600 pounds per hour each:

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

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

$$E = 4.10 (0.3)^{0.67} = 1.83 \text{ lbs PM/hr}$$

The maximum process weight rate for each pneumatic blaster is 600 lbs/hr (0.3 tons/hr). Therefore $P = 0.3$ tons/hr and $E = 1.83$ lbs PM/hr.

Based on the above equation, particulate matter emissions from the two (2) pneumatic blasters (#15 and #16) shall not exceed 1.83 pounds per hour each. The uncontrolled particulate emission rate from the pneumatic blasters is 6.26 pounds per hour each. The two (2) pneumatic blasters (#15 and #16) shall comply with the allowable particulate emission rate (1.83 pounds per hour by using a cyclone and a baghouse (See TSD Appendix A, page 7 of 9). The potential controlled PM emissions from each of the two blasters is 0.31lb/hr.

326 IAC 8-1-6 (New facilities: general reduction requirements)

This rule applies to new facilities constructed on or after January 1, 1980 and with the potential to emit VOC greater than 25 tons per year. Since the potential VOC emissions from coating plastic, carpet, PVC and glass substrates are less than twenty-five (25) tons per year, 326 IAC 8-1-6 does not apply.

326 IAC 8-2-9 (Miscellaneous Metal Coating)

- (a) The paint booth identified as North paint booth is not subject to the requirements of 326 IAC 8-2-9 (Miscellaneous Metal Coating) because it was installed prior to November 1, 1980 and it is not located in one of the identified counties under 326 IAC 8-2-9(a)(1) or 326 IAC 8-2-9(a)(3).
- (b) The paint booth identified as West paint booth is not subject to the requirements of 326 IAC 8-2-9 (Miscellaneous Metal Coating) because it has actual emissions of VOC less than 15 pounds per day and it is located in Adams County. The West paint booth was installed between 1988 and 1990. The exact date of installation of this paint booth is unknown.

326 IAC 8-3-2 (Cold Cleaner Operations)

The installation dates of the seven (7) degreasers are unknown. Pursuant to 326 IAC 8-3-2 (Cold Cleaner Operations), the owner or operator shall operate the degreaser with the following requirements:

- (a) Equip the cleaner with a cover;
- (b) Equip the cleaner with a facility for draining cleaned parts;
- (c) Close the degreaser cover whenever parts are not being handled in the cleaner;
- (d) Drain cleaned parts for at least fifteen (15) seconds or until dripping ceases;
- (e) Provide a permanent, conspicuous label summarizing the operation requirements;

- (f) Store waste solvent only in covered containers and not dispose of waste solvent or transfer it to another party, in such a manner that greater than twenty percent (20%) of the waste solvent (by weight) can evaporate into the atmosphere.

326 IAC 8-3-5 (Cold Cleaner Degreaser Operation and Control)

The seven (7) cold cleaner degreasers at the source are not subject to the requirements of 326 IAC 8-3-5 because each degreaser has a remote solvent reservoir.

326 IAC 8-6 (Organic Solvent Emission Limitations)

326 IAC 8-6-1 is applicable to sources constructed after October 7, 1974, and prior to January 1, 1980. This source was constructed prior to October 7, 1974. Therefore, the requirements of this rule are not applicable.

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

The hard chromium electroplating tanks, identified as HC-1 and HC-2, are subject to 326 IAC 20-8-1 (Hard and Decorative Chromium Electroplating and Chromium Anodizing Tanks). 326 IAC 20-8 incorporates by reference 40 CFR 63, Subpart N. The Permittee will comply with the provisions of 40 CFR 63, Subpart N as detailed in the Federal Rule Applicability section above.

The version of the rule referenced by 326 IAC 20-8 was the version in existence on July 1, 2005. 40 CFR 63, Subpart N was most recently amended in the Federal Register on April 20, 2006. Therefore, the April 20, 2006 amendments to the federal rule are not approved into the Indiana Administrative Code (326 IAC), and the chromium electroplating facilities at this source are subject to both versions of the rule. When the revised rule is incorporated into the 326 IAC, 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 326 IAC 20-8 rule that are applicable to this source are the same as the requirements listed under Federal Rule Applicability except for the following:

- (1) 40 CFR 63.342 (f)(1)(i).
- (2) 40 CFR 63.342 (f)(1)(ii).
- (3) 40 CFR 63.342 (f)(3)(i).

The 326 IAC version of 40 CFR 63.342(f)(1)(i) indicated that the source must operate the electroplating tanks and any control devices in a manner consistent with the operation and maintenance plan required by 40 CFR 63.342(f)(3). However, the new version indicates that the source must operate the electroplating tanks and any control devices in a manner consistent with good air pollution control practices.

The 326 IAC version of 40 CFR 63.342(f)(1)(ii) had a reference to the operation and maintenance plan required by 40 CFR 63.342(f)(3). However, in the new version the reference to operation and maintenance plan required by 40 CFR 63.342(f)(3) has been removed.

The 326 IAC version of 40 CFR 63.342(f)(3)(i) stated "an operation and maintenance plan to be implemented no later than the compliance date" The new version states "an operation and maintenance plan no later than the compliance date".

Compliance Requirements

The pneumatic blasters #15 and #16 have applicable compliance monitoring conditions as specified below:

- (a) Daily visible emission notations of the stack exhaust for pneumatic blasters (#15 and #16) shall be performed during normal daylight operations when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.
- (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
- (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.
- (e) If abnormal emissions are observed, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances shall be considered a deviation from this permit.
- (f) The Permittee shall record the pressure drop across the baghouse used in conjunction with the pneumatic blasting operations, at least once daily when the pneumatic blasting operations are in operation when venting to the atmosphere. When for any one reading, the pressure drop across the baghouse is outside the normal range of 3.0 and 6.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances shall be considered a deviation from this permit.

The instrument used for determining the pressure shall comply with Section C - Instrument Specifications, of this permit, shall be subject to approval by IDEM, OAQ, and shall be calibrated at least once every six (6) months.

- (g)
 - (1) For a single compartment baghouse controlling emissions from a process operated continuously, a failed unit and the associated process shall be shut down immediately until the failed unit has been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).
 - (2) For a single compartment baghouse controlling emissions from a batch process, the feed to the process shall be shut down immediately until the failed unit has been repaired or replaced. The emissions unit shall be shut down no later than the completion of the processing of the material in the line. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

Bag failure can be indicated by a significant drop in the baghouse's pressure reading with abnormal visible emissions, by an opacity violation, or by other means such as gas temperature, flow rate, air infiltration, leaks, dust traces or triboflows.

These monitoring conditions are necessary because the baghouse for the two (2) pneumatic blasters must operate properly to ensure compliance with 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes).

Conclusion

The operation of this hard chromium electroplating and metal finishing source shall be subject to the conditions of the Minor Source Operating Permit Renewal No.: 001-20799-00033.

Appendix A: Emission Calculations

Company Name: Micromatic, LLC
Source Location: 525 Berne Street, Berne, Indiana 46711
Permit Number: MSOP 001-20799-00033
Reviewer: Tanya White/EVP
Date: February-07

| Uncontrolled Potential to Emit (tons/year) | | | | | | | | |
|--|---------------------------|------------------------|-------------------------|----------------------------------|-----------|-----------------------|-------------------------|--------|
| Emissions Generating Activity | | | | | | | | |
| Pollutant | Surface Coating Operation | Natural Gas Combustion | Cold Cleaner Degreasing | Pneumatic Blasters No. 15 and 16 | Welding | Chrome Electroplating | Sulfuric Acid Operation | TOTAL |
| PM | 1.60 | 0.06 | 0.00 | 54.86 | 0.98 | 0.21 | 0.03 | 57.73 |
| PM10 | 1.60 | 0.23 | 0.00 | 38.40 | 0.98 | 0.21 | 0.03 | 41.45 |
| SO2 | 0.00 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 |
| NOx | 0.00 | 3.08 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 3.08 |
| VOC | 3.68 | 0.17 | 0.31 | 0.00 | 0.00 | 0.00 | 0.00 | 4.16 |
| CO | 0.00 | 2.59 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 2.59 |
| total HAPs | 3.68 | 0.06 | 0.00 | 0.00 | 0.03 | 0.10 | 0.00 | 3.87 |
| worst case single HAP | 3.13 | 0.06 | 0.00 | 0.00 | 0.03 | 0.10 | 0.00 | 3.13 |
| | Xylene | Hexane | | | Manganese | Chromium | | Xylene |
| Total emissions based on rated capacity at 8,760 hours/year without controls and limitations. | | | | | | | | |
| Controlled/Limited Potential to Emit (tons/year) | | | | | | | | |
| Emissions Generating Activity | | | | | | | | |
| Pollutant | Surface Coating Operation | Natural Gas Combustion | Cold Cleaner Degreasing | Pneumatic Blasters No. 15 and 16 | Welding | Chrome Electroplating | Sulfuric Acid Operation | TOTAL |
| PM | 0.16 | 0.06 | 0.00 | 2.74 | 0.98 | 0.03 | 0.00 | 3.97 |
| PM10 | 0.16 | 0.23 | 0.00 | 1.92 | 0.98 | 0.03 | 0.00 | 3.32 |
| SO2 | 0.00 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 |
| NOx | 0.00 | 3.08 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 3.08 |
| VOC | 3.68 | 0.17 | 0.31 | 0.00 | 0.00 | 0.00 | 0.00 | 4.16 |
| CO | 0.00 | 2.59 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 2.59 |
| total HAPs | 3.68 | 0.06 | 0.00 | 0.00 | 0.03 | 0.01 | 0.00 | 3.78 |
| worst case single HAP | 3.13 | 0.06 | 0.00 | 0.00 | 0.03 | 0.01 | 0.00 | 3.13 |
| | Xylene | Hexane | | | Manganese | Chromium | | Xylene |
| Total emissions based on rated capacity at 8,760 hours/year, after enforceable controls and limitations. | | | | | | | | |

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

Company Name: Micromatic, LLC
Source Location: 525 Berne Street, Berne, Indiana 46711
Permit Number: MSOP 001-20799-00033
Reviewer: Tanya White/EVP
Date: February-07

| | |
|----------------------------------|---------------------------------|
| Heat Input Capacity* MMBtu/hr | Potential Throughput MMCF/yr |
| 7.03 | 61.60 |

*Includes various natural gas fired heaters and one (1) waste oil dryer

| Emission Factor in lb/MMCF | Pollutant | | | | | |
|-------------------------------|-----------|-------|------|-----------------------------|------|------|
| | PM* | PM10* | SO2 | NOx 100.0 **see below | VOC | CO |
| Potential Emission in tons/yr | 0.06 | 0.23 | 0.02 | 3.08 | 0.17 | 2.59 |

*PM emission factor is filterable PM only. PM10 emission factor is filterable and condensable PM10 combined.

**Emission Factors for NOx: Uncontrolled = 100, Low NOx Burner = 50, Low NOx Burners/Flue gas recirculation = 32

Methodology

All emission factors are based on normal firing.

MMBtu = 1,000,000 Btu

MMCF = 1,000,000 Cubic Feet of Gas

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

| Emission Factor in lb/MMcf | HAPs - Organics | | | | |
|-------------------------------|-----------------|-----------------|--------------|-----------|-----------|
| | Benzene | Dichlorobenzene | Formaldehyde | Hexane | Toluene |
| Potential Emission in tons/yr | 6.468E-05 | 3.696E-05 | 2.310E-03 | 5.544E-02 | 1.047E-04 |

| Emission Factor in lb/MMcf | HAPs - Metals | | | | |
|-------------------------------|---------------|-----------|-----------|-----------|-----------|
| | Lead | Cadmium | Chromium | Manganese | Nickel |
| Potential Emission in tons/yr | 1.540E-05 | 3.388E-05 | 4.312E-05 | 1.170E-05 | 6.468E-05 |

Methodology is the same as previous page.

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
 Degreasing Operations
 VOC & HAP Emissions**

Company Name: Micromatic, LLC
Source Location: 525 Berne Street, Berne, Indiana 46711
Permit Number: MSOP 001-20799-00033
Reviewer: Tanya White/EVP
Date: February-07

VOC:

| Compound | Max. Usage (gal/day)* | Density (lb/gal) | % VOC by weight | VOC (lb/day) | VOC (tpy) |
|-----------------|-----------------------|------------------|-----------------|--------------|-----------|
| Mineral Spirits | 0.25 | 6.65 | 100.00% | 1.66 | 0.30 |
| Biosolv | 0.30 | 6.8 | 1.00% | 0.02 | 0.00 |

HAP:

| Compound | Max. Usage (gal/day)* | Density (lb/gal) | % HAP by weight | HAP (lb/day) | HAP (tpy) |
|-----------------|-----------------------|------------------|-----------------|--------------|-----------|
| Mineral Spirits | 0.25 | 6.65 | 0.00% | 0.00 | 0.00 |
| Biosolv | 0.30 | 6.8 | 0.00% | 0.00 | 0.00 |

Notes:

* Taken from application to original MSOP 001-11722-00033.

Cold cleaning degreasers include Cut-Off C-1, C-2, C-3; Rotac; Assembly A-1, Crib, Bench B-1, each using Safety-Kleen type solvent. Cold cleaning degreasers also include Heat Treat unit using Biosolv.

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

Company Name: Micromatic, LLC
Source Location: 525 Berne Street, Berne, Indiana 46711
Permit Number: MSOP 001-20799-00033
Reviewer: Tanya White/EVP
Date: February-07

| Material | Density (Lb/Gal) | Weight % Volatile (H2O & Organics) | Weight % Water | Weight % Organics | Volume % Water | Volume % Non-Volatiles (solids) | Gal of Mat. (gal/unit) | Maximum (unit/hour) | Pounds VOC per gallon of coating less water | Pounds VOC per gallon of coating | Potential VOC pounds per hour | Potential VOC pounds per day | Potential VOC tons per year | Particulate Potential (ton/yr) | lb VOC/gal solids | Transfer Efficiency |
|-----------------------|------------------|------------------------------------|----------------|-------------------|----------------|---------------------------------|------------------------|---------------------|---|----------------------------------|-------------------------------|------------------------------|-----------------------------|--------------------------------|-------------------|---------------------|
| Black Lacquer | 9.18 | 50.60% | 0.0% | 50.6% | 0.0% | 30.00% | 0.117188 | 1.000 | 4.65 | 4.65 | 0.54 | 13.06 | 2.38 | 0.58 | 15.48 | 75% |
| Grey Primer | 7.40 | 77.70% | 0.0% | 77.7% | 0.0% | 14.50% | 0.117188 | 1.000 | 5.75 | 5.75 | 0.67 | 16.17 | 2.95 | 0.21 | 39.65 | 75% |
| Tile Clad II enamel | 10.47 | 37.30% | 0.1% | 37.2% | 0.2% | 22.75% | 0.117188 | 1.000 | 3.90 | 3.89 | 0.46 | 10.95 | 2.00 | 0.84 | 17.12 | 75% |
| Lacquer thinner | 6.69 | 100.00% | 0.0% | 100.0% | 0.0% | 0.00% | 0.117188 | 1.000 | 6.69 | 6.69 | 0.78 | 18.82 | 3.43 | 0.00 | 0.00 | 75% |
| Tile clad II hardener | 8.48 | 47.10% | 0.0% | 47.1% | 0.0% | 45.10% | 0.117188 | 1.000 | 3.99 | 3.99 | 0.47 | 11.23 | 2.05 | 0.58 | 8.86 | 75% |
| MEK solvent | 6.68 | 100.00% | 0.0% | 100.0% | 0.0% | 0.00% | 0.117188 | 1.000 | 6.68 | 6.68 | 0.78 | 18.79 | 3.43 | 0.00 | 0.00 | 75% |
| Valspar, base | 10.24 | 36.88% | 0.0% | 36.9% | 0.0% | 63.12% | 0.117188 | 1.000 | 3.78 | 3.78 | 0.44 | 10.62 | 1.94 | 0.83 | 5.98 | 75% |
| Safety yellow | 8.62 | 43.00% | 0.0% | 43.0% | 0.0% | 39.81% | 0.117188 | 1.000 | 3.71 | 3.71 | 0.43 | 10.42 | 1.90 | 0.63 | 9.31 | 75% |
| AUE-300 | 8.31 | 29.33% | 0.0% | 29.3% | 0.0% | 64.13% | 0.117188 | 1.000 | 2.44 | 2.44 | 0.29 | 6.86 | 1.25 | 0.75 | 3.80 | 75% |
| AUE-301 | 8.75 | 30.04% | 0.0% | 30.0% | 0.0% | 62.90% | 0.117188 | 1.000 | 2.63 | 2.63 | 0.31 | 7.39 | 1.35 | 0.79 | 4.18 | 75% |
| HSP-900 | 14.98 | 16.85% | 0.0% | 16.9% | 0.0% | 63.13% | 0.117188 | 1.000 | 2.52 | 2.52 | 0.30 | 7.10 | 1.30 | 1.60 | 4.00 | 75% |
| HSP-901 | 8.85 | 25.00% | 0.0% | 25.0% | 0.0% | 70.10% | 0.117188 | 1.000 | 2.21 | 2.21 | 0.26 | 6.22 | 1.14 | 0.85 | 3.16 | 75% |
| Grey epoxy primer | 12.10 | 29.00% | 0.0% | 29.0% | 0.0% | 50.31% | 0.117188 | 1.000 | 3.51 | 3.51 | 0.41 | 9.87 | 1.80 | 1.10 | 6.97 | 75% |
| KEM 400 enamel | 9.34 | 50.70% | 0.0% | 50.7% | 0.0% | 31.14% | 0.117188 | 1.000 | 4.74 | 4.74 | 0.55 | 13.32 | 2.43 | 0.59 | 15.21 | 75% |
| KEM 400 catalyst | 8.37 | 55.20% | 0.0% | 55.2% | 0.0% | 38.30% | 0.117188 | 1.000 | 4.62 | 4.62 | 0.54 | 12.99 | 2.37 | 0.48 | 12.06 | 75% |
| Flat black enamel | 6.50 | 85.40% | 0.0% | 85.4% | 0.0% | 8.70% | 0.117188 | 1.000 | 5.55 | 5.55 | 0.65 | 15.61 | 2.85 | 0.12 | 63.80 | 75% |
| KEM KROMIC primer | 12.75 | 25.80% | 0.0% | 25.8% | 0.0% | 43.28% | 0.117188 | 1.000 | 3.29 | 3.29 | 0.39 | 9.25 | 1.69 | 1.21 | 7.60 | 75% |
| DTM Acrylic | 9.88 | 52.40% | 44.2% | 8.2% | 0.0% | 37.70% | 0.117188 | 1.000 | 0.81 | 0.81 | 0.09 | 2.28 | 0.42 | 0.60 | 2.15 | 75% |
| Xylol | 7.17 | 100.00% | 0.0% | 100.0% | 0.0% | 0.00% | 0.117188 | 1.000 | 7.17 | 7.17 | 0.84 | 20.17 | 3.68 | 0.00 | 0.00 | 75% |
| Rotac Blue | 7.88 | 64.90% | 0.0% | 64.9% | 0.0% | 12.20% | 0.117188 | 1.000 | 5.11 | 5.11 | 0.60 | 14.38 | 2.62 | 0.35 | 41.92 | 75% |
| S-0578 thinner | 6.73 | 100.00% | 0.0% | 100.0% | 0.0% | 0.00% | 0.117188 | 1.000 | 6.73 | 6.73 | 0.79 | 18.93 | 3.45 | 0.00 | 0.00 | 75% |

Potential to Emit (tons/yr)*

Add worst case coating to all solvents

| | | | |
|-------------|--------------|-------------|-------------|
| 0.84 | 20.17 | 3.68 | 1.60 |
|-------------|--------------|-------------|-------------|

METHODOLOGY

- Pounds of VOC per Gallon Coating less Water = (Density (lb/gal) * Weight % Organics) / (1-Volume % water)
- Pounds of VOC per Gallon Coating = (Density (lb/gal) * Weight % Organics)
- Potential VOC Pounds per Hour = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr)
- Potential VOC Pounds per Day = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr) * (24 hr/day)
- Potential VOC Tons per Year = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr) * (8760 hr/yr) * (1 ton/2000 lbs)
- Particulate Potential Tons per Year = (units/hour) * (gal/unit) * (lbs/gal) * (1- Weight % Volatiles) * (1-Transfer efficiency) *(8760 hrs/yr) *(1 ton/2000 lbs)
- Pounds VOC per Gallon of Solids = (Density (lbs/gal) * Weight % organics) / (Volume % solids)
- Total = Worst Coating + Sum of all solvents used

*Since only one spray gun can be used at a time, the worst case coating will be used to determine potential emissions.
 **Dry filters

| | | |
|---|--|--|
| PM/PM-10 Control Efficiency** (%) | Uncontrolled PM/PM-10 Emissions (tons/yr) | Controlled PM/PM-10 Emissions (tons/yr) |
| 90% | 1.60 | 0.16 |

Company Name: Micromatic, LLC
Source Location: 525 Berne Street, Berne, Indiana 46711
Permit Number: MSOP 001-20799-00033
Reviewer: Tanya White/EVP
Date: February-07

| Material | Density (Lb/Gal) | Gallons of Material (gal/unit) | Maximum (unit/hour) | Weight % Xylene | Weight % Toluene | Weight % Methanol | Weight % MİK | Weight % Glycol Ethers | Weight % Ethyl Benzene | Weight % Hexamethylene | Xylene Emissions (ton/yr) | Toluene Emissions (ton/yr) | Methanol Emissions (ton/yr) | MİK Emissions (ton/yr) | Glycol Ethers Emissions (ton/yr) | Ethyl benzene Emissions (ton/yr) | Hexamethylene Emissions (ton/yr) | Total HAPs (ton/yr) |
|-------------------------------------|------------------|--------------------------------|---------------------|-----------------|------------------|-------------------|--------------|------------------------|------------------------|------------------------|---------------------------|----------------------------|-----------------------------|------------------------|----------------------------------|----------------------------------|----------------------------------|---------------------|
| Black Lacquer | 9.18 | 0.117188 | 1.00 | 3.00% | 4.00% | 0.00% | 0.00% | 1.00% | 0.00% | 0.00% | 0.14 | 0.19 | 0.00 | 0.00 | 0.05 | 0.00 | 0.00 | 0.38 |
| Tile Clad II enamel | 10.47 | 0.117188 | 1.00 | 12.00% | 0.00% | 0.00% | 0.00% | 5.00% | 2.00% | 0.00% | 0.64 | 0.00 | 0.00 | 0.00 | 0.27 | 0.11 | 0.00 | 1.02 |
| Lacquer thinner | 6.69 | 0.117188 | 1.00 | 5.00% | 15.00% | 5.00% | 0.00% | 4.00% | 1.00% | 0.00% | 0.17 | 0.52 | 0.17 | 0.00 | 0.14 | 0.03 | 0.00 | 1.03 |
| Tile clad II hardener | 8.48 | 0.117188 | 1.00 | 16.00% | 0.00% | 0.00% | 0.00% | 9.00% | 3.00% | 0.00% | 0.70 | 0.00 | 0.00 | 0.00 | 0.39 | 0.13 | 0.00 | 1.22 |
| Valspar, base | 10.24 | 0.117188 | 1.00 | 1.00% | 1.00% | 0.10% | 0.00% | 0.00% | 0.00% | 0.00% | 0.05 | 0.05 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.11 |
| Grey epoxy primer | 12.1 | 0.117188 | 1.00 | 1.00% | 0.00% | 0.00% | 0.00% | 5.00% | 0.00% | 0.00% | 0.06 | 0.00 | 0.00 | 0.00 | 0.31 | 0.00 | 0.00 | 0.37 |
| KEM 400 enamel | 9.34 | 0.117188 | 1.00 | 35.00% | 0.00% | 0.00% | 0.00% | 0.00% | 6.00% | 0.00% | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.29 | 0.00 | 0.29 |
| KEM 400 catalyst | 8.37 | 0.117188 | 1.00 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.20% | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Flat black enamel | 6.5 | 0.117188 | 1.00 | 0.00% | 33.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00 | 1.10 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.10 |
| KEM KROMIC primer | 12.75 | 0.117188 | 1.00 | 11.00% | 3.00% | 0.00% | 0.00% | 0.00% | 2.00% | 0.00% | 0.72 | 0.20 | 0.00 | 0.00 | 0.00 | 0.13 | 0.00 | 1.05 |
| DTM Acrylic | 9.88 | 0.117188 | 1.00 | 0.00% | 0.00% | 0.00% | 0.00% | 4.00% | 0.00% | 0.00% | 0.00 | 0.00 | 0.00 | 0.00 | 0.20 | 0.00 | 0.00 | 0.20 |
| Xylol | 7.17 | 0.117188 | 1.00 | 85.00% | 0.00% | 0.00% | 0.00% | 0.00% | 15.00% | 0.00% | 3.13 | 0.00 | 0.00 | 0.00 | 0.00 | 0.55 | 0.00 | 3.68 |
| Rotac Blue | 7.88 | 0.117188 | 1.00 | 4.00% | 8.00% | 0.00% | 2.00% | 4.00% | 0.00% | 0.00% | 0.16 | 0.32 | 0.00 | 0.08 | 0.16 | 0.00 | 0.00 | 0.73 |
| Potential to Emit (tons/yr)* | | | | | | | | | | | 3.13 | 1.10 | 0.17 | 0.08 | 0.39 | 0.55 | 0.00 | 3.68 |

METHODOLOGY

HAPS emission rate (tons/yr) = Density (lb/gal) * Gal of Material (gal/unit) * Maximum (unit/hr) * Weight % HAP * 8760 hrs/yr * 1 ton/2000 lbs
 *Since only one spray gun can be used at a time, the worst case of each single HAP will be used to determine potential emissions.

Appendix A: Welding and Thermal Cutting

Company Name: Micromatic, LLC
 Source Location: 525 Berne Street, Berne, Indiana 46711
 Permit Number: MSOP 001-20799-00033
 Reviewer: Tanya White/EVP
 Date: February-07

| PROCESS | Number of Stations | Max. electrode consumption per station (lbs/hr) | | EMISSION FACTORS * (lb pollutant / lb electrode) | | | | EMISSIONS (lb/hr) | | | | TOTAL HAPS (lb/hr) |
|-------------------------------|--------------------|---|--------------------------------------|--|----------|----------|----------|--------------------|-----------|-------|-----------|--------------------|
| | | | | PM = PM10 | Mn | Ni | Cr | PM = PM10 | Mn | Ni | Cr | |
| WELDING | | | | | | | | | | | | |
| Metal Inert Gas (MIG) | 2 | 6.3 | | 0.0052 | 0.000318 | 0.000001 | 0.000001 | 0.066 | 0.0040068 | 0.000 | 0.0000126 | 0.004 |
| Tungsten Inert Gas (TIG) | 1 | 6 | | 0.0052 | 0.000318 | 0.000001 | 0.000001 | 0.031 | 0.001908 | 0.000 | 0.000006 | 0.002 |
| FLAME CUTTING | | | | | | | | | | | | |
| | Number of Stations | Max. Metal Thickness Cut (in.) | Max. Metal Cutting Rate (in./minute) | EMISSION FACTORS (lb pollutant/1,000 inches cut, 1" thick) | | | | EMISSIONS (lbs/hr) | | | | TOTAL HAPS (lb/hr) |
| | | | | PM = PM10 | Mn | Ni | Cr | PM = PM10 | Mn | Ni | Cr | |
| Oxyacetylene | 1 | 0.5 | 6 | 0.1622 | 0.0005 | 0.0001 | 0.0003 | 0.029 | 0.000 | 0.000 | 0.000 | 0.000 |
| Plasma | 1 | 1 | 10 | 0.1622 | 0.0005 | 0.0001 | 0.0003 | 0.097 | 0.000 | 0.000 | 0.000 | 0.000 |
| EMISSION TOTALS | | | | | | | | PM = PM10 | Mn | Ni | Cr | Total HAPs |
| Potential Emissions lbs/hr | | | | | | | | 0.22 | 0.01 | 0.00 | 0.00 | 0.01 |
| Potential Emissions lbs/day | | | | | | | | 5.36 | 0.14 | 0.00 | 0.00 | 0.14 |
| Potential Emissions tons/year | | | | | | | | 0.98 | 0.03 | 0.00 | 0.00 | 0.03 |

METHODOLGY

*Emission Factors are default values for carbon steel unless a specific electrode type is noted in the Process column. Consult AP-42 or other reference for different electrode types.
 Welding emissions, lb/hr: (# of stations)(max. lbs of electrode used/hr/station)(emission factor, lb. pollutant/lb. of electrode used)
 Cutting emissions, lb/hr: (# of stations)(max. metal thickness, in.)(max. cutting rate, in./min.)(60 min./hr.)(emission factor, lb. pollutant/1,000 in. cut, 1" thick)
 Emissions, lbs/day = emissions, lbs/hr x 24 hrs/day
 Emissions, tons/yr = emissions, lb/hr x 8,760 hrs/day x 1 ton/2,000 lbs.
 Plasma cutting emission factors are from the American Welding Society study published in Sweden (March 1994).
 Welding and other flame cutting emission factors are from an internal training session document.
 See AP-42, Chapter 12.19 for additional emission factors for welding.

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

Company Name: Micromatic, LLC
Source Location: 525 Berne Street, Berne, Indiana 46711
Permit Number: MSOP 001-20799-00033
Reviewer: Tanya White/EVP
Date: February-07

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 for pneumatic blaster # 15 and #16

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 =

| |
|--------|
| 420 |
| 150 |
| 99 |
| 0.31 |
| 0.3125 |

Flow Rate (FR) (lb/hr) = 626.223 per nozzle

Uncontrolled Emissions (E, lb/hr)

EF = emission factor (lb PM/ lb abrasive) From Table 1 =
 EF = emission factor (lb PM10/ lb PM) From Table 1 =
 FR = Flow Rate (lb/hr) =
 w = fraction of time of wet blasting =
 N = number of nozzles =

| |
|---------|
| 0.010 |
| 0.700 |
| 626.223 |
| 0 % |
| 2 |

| | |
|-------------------------------------|---------------------|
| Uncontrolled PTE PM = | 12.52 lb/hr |
| | 54.86 ton/yr |
| Uncontrolled PTE PM10 = | 8.77 lb/hr |
| | 38.40 ton/yr |
| Controlled Emissions PM* = | 2.74 ton/yr |
| Controlled Emissions PM10* = | 1.92 ton/yr |

METHODOLOGY

Emission Factors from STAPPA/ALAPCO "Air Quality Permits", Vol. 1, Section 3 "Abrasive Blasting" (1991 edition)

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)

Control efficiency of the baghouse is assumed to be 95%.

Blaster No. 15 and No. 16 Allowable Emission Rate Pursuant to 326 IAC 6-3-2(e):

Allowable emission limit, pursuant to 326 IAC 6-3-2 = $4.10 * P^{0.67}$ lb/hour, for process weight rates, P, expressed in tons/hour, up to 30 tons
 Per original MSOP No. 11722, the maximum process weight rate for each pneumatic blaster is 600 lbs/hr. Therefore, based on the above formula:

Allowable PM: $1.83 \text{ (lb/hour)} * 8,760 \text{ (hours/yr)} * 1/2000 \text{ (ton/lbs)} = 8.02 \text{ (equivalent allowable annual emission rate)}$

**Appendix A: Emissions Calculations
Sulfuric Acid Operation**

Company Name: Micromatic, LLC
Source Location: 525 Berne Street, Berne, Indiana 46711
Permit Number: MSOP 001-20799-00033
Reviewer: Tanya White/EVP
Date: February-07

AP-42 Table 12.20-2

Use chromic acid anodizing for worst case scenario (chrome has low cathode efficiency)
EF = 4.2 grains/hr-ft² of tank surface area

Sulfuric acid tank surface measures 18 3/8" x 18 3/8"

Activity rate = 1 tank * 2.346 ft² per hr of usage

There are no emission controls employed.

PM/PM10 Emissions:

$$\begin{aligned} \text{E PTE} &= A * \text{EF} * (1-\text{ER}/100) \\ &= 2.346 \text{ ft}^2 * 4.2 \text{ gr/hr-ft}^2 * (1- 0/100) \\ &= 9.853 \text{ grains/hr} * 1.427 \times 10^{-4} \text{ lb/gr} * 8760 \text{ hrs/yr} * \text{ton}/2000 \text{ lb} \\ &= 0.0062 \text{ ton /yr} \end{aligned}$$

AP-42 Table 12.20-2

Use chromic acid anodizing for worst case scenario (chrome has low cathode efficiency)
EF = 4.2 grains/hr-ft² of tank surface area

Sulfuric acid tank surface measures 30" x 35.5"

Activity rate = 1 tank * 7.4 ft² per hr of usage

There are no emission controls employed.

PM/PM10 Emissions:

$$\begin{aligned} \text{E PTE} &= A * \text{EF} * (1-\text{ER}/100) \\ &= 7.4 \text{ ft}^2 * 4.2 \text{ gr/hr-ft}^2 * (1- 0/100) \\ &= 31.08 \text{ grains/hr} * 1.427 \times 10^{-4} \text{ lb/gr} * 8760 \text{ hrs/yr} * \text{ton}/2000 \text{ lb} \\ &= 0.0194 \text{ ton /yr} \end{aligned}$$

**Appendix A: Emissions Calculations
Hard Chromium Electroplating**

Company Name: Micromatic, LLC
Source Location: 525 Berne Street, Berne, Indiana 46711
Permit Number: MSOP 001-20799-00033
Reviewer: Tanya White/EVP
Date: February-07

(1) Uncontrolled total particulate matter emissions from chromium electroplating tanks
Emissions = EF * Capacity * lbs/7000 grains * ton/2000 lbs
= **0.210** tons/yr

Where:

EF = 0.25 Uncontrolled emission factor for particulate matter, grains/A-hr
Maximum Capacity = 11,760,000 A-hr

(2) Controlled total particulate matter emissions from chromium electroplating tanks
Emissions = EF * Capacity * lbs/7000 grains * ton/2000 lbs
= **0.029** tons/yr

Where:

EF = 0.00034 emission factor for particulate matter with a fume suppressant, grains/dscf
EF = 0.034 emission factor for particulate matter with a fume suppressant, grains/A-hr
Maximum Capacity = 11,760,000 A-hr

(3) Uncontrolled Chromium emissions from chromium electroplating tanks
Emissions = EF * Capacity * lbs/7000 grains * ton/2000 lbs
= **0.101** tons/yr

Where:

EF = 0.12 Uncontrolled emission factor for chromium, grains/A-hr
Maximum Capacity = 11,760,000 A-hr

(4) Controlled chromium emissions from chromium electroplating tanks using a fume suppressant
Emissions = EF * Capacity * lbs/7000 grains * ton/2000 lbs
= **0.013** tons/yr

Where:

EF = 0.00016 emission factor for chromium with a fume suppressant, grains/dscf
EF = 0.016 emission factor for chromium with a fume suppressant, grains/A-hr
Maximum Capacity = 11,760,000 A-hr

*Fume suppressant used is Fumatrol®
Emission Calculations are based on AP-42 -Table 12.20-1 (Supplement B 7/96)*