

Mr. George Wright  
Chrome Deposit Corporation  
6640 Melton Road  
Portage, Indiana 46368

Re: **127-14226**  
Notice-only change to  
**MSOP 127-11699-00093**

Dear Mr. Wright:

Chrome Deposit Corporation was issued a permit on April 20, 2000 for a stationary chromium electroplating source. A notice-only change (127-12257-00093) was issued on July 19, 2000. A letter notifying the Office of Air Quality of a change was received on April 4, 2001. Pursuant to the provisions of 326 IAC 2-6.1-6 the permit is hereby revised as follows:

As part of preventive maintenance, tank C/D and the attached pickup duct are being replaced with similar units. The emission unit description is not changing, except for the date of the most recent modification. This change is not considered a reconstruction pursuant to 40 CFR 63.2, Definitions, because the fixed capital cost of the new components do not exceed fifty percent (50%) of the fixed capital cost that would be required to construct a comparable new facility. Therefore, there is no new testing required for this facility. Since this modification is a replacement of a piece of equipment in an existing process and an entire emission unit is not being replaced, this is considered a notice-only change pursuant to 326 IAC 2-6.1-6(d)(12). Since there are no changes to the potential to emit from this source and no changes in the applicability of any rules, this is also a notice-only change pursuant to 326 IAC 2-6.1-6(d)(13), "A modification that adds an emissions unit or units of the same type that are already permitted and that will comply with the same applicable requirements and permit terms and conditions as the existing emission units, except if the modification would result in a potential to emit greater than the thresholds in 326 IAC 2-2 or 2-3." In addition, Condition D.1.10(c)(2) is revised to be consistent with the applicable rules.

Changes to the Minor Source Operating Permit are as follows:

A.2 Emissions units and Pollution Control Equipment Summary

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

- (a) One (1) hard chrome plating tank, identified as Tank B, constructed prior to December 16, 1993 and reconstructed as preventive maintenance in 1999, using a hexavalent chromium bath and having a rectifier capacity of 15,000 amps and a maximum cumulative rectifier capacity of 88,200,000 amp-hours, equipped with an evaporator/cooler and a packed bed/composite mesh pad scrubber as control, and exhausting to stack B.
- (b) One (1) hard chrome plating tank, identified as Tank C/D, constructed prior to December 16, 1993 **and modified in 2001**, using a hexavalent chromium bath and having a rectifier capacity of 30,000 amps and a maximum cumulative rectifier capacity of 176,400,000 amp-hours, equipped with an evaporator/cooler and a packed bed/composite mesh pad scrubber as control, and exhausting to stack C/D.
- (c) Two (2) wash tanks, identified as Wash Tank B and Wash Tank C/D, using 250 pounds per hour of water and 5 pounds per hour of soap, constructed prior to December 16, 1993.

- (d) Two (2) spent wash water holding tanks, identified as Nos. 1 and 2, with associated atmospheric evaporators, exhausting to stacks WR#1 and WR#2.
- (e) Three (3) hot water boilers, constructed in 1984, fired by natural gas, with associated heat exchangers, exhausting to stacks B1, B2 and B3, capacity: 0.413 million British thermal units per hour, each.
- (f) One (1) forced air furnace, identified as 2FF, maximum heat input capacity: 0.117 million British thermal units per hour.
- (g) One (1) forced air furnace, identified as CRF, maximum heat input capacity: 0.075 million British thermal units per hour.
- (h) One (1) forced air furnace, identified as LRF, maximum heat input capacity: 0.084 million British thermal units per hour.
- (i) One (1) forced air furnace, identified as OF, maximum heat input capacity: 0.054 million British thermal units per hour.
- (j) One (1) make-up air heater, identified as Rapid, maximum heat input capacity: 1.75 million British thermal units per hour.
- (k) One (1) make-up air heater, identified as Thermo cycler, maximum heat input capacity: 0.4 million British thermal units per hour.
- (l) One (1) hot water heater, identified as LRWH, maximum heat input capacity: 0.04 million British thermal units per hour.
- (m) One (1) hot water heater, identified as CRWH, maximum heat input capacity: 0.04 million British thermal units per hour.
- (n) Two (2) EDT surface machining machines equipped with torit particulate air filters, one exhausting to stack TF and one exhausting inside the building, capacity: 40,000 pounds per hour, total.
- (o) One (1) wet finishing surface grinder, capacity: 20,000 pounds per hour.

**SECTION D.1 EMISSIONS UNIT OPERATION CONDITIONS**

**Emissions Unit Description:**

- (a) One (1) hard chrome plating tank, identified as Tank B, constructed prior to December 16, 1993 and reconstructed as preventive maintenance in 1999, using a hexavalent chromium bath and having a rectifier capacity of 15,000 amps and a maximum cumulative rectifier capacity of 88,200,000 amp-hours, equipped with an evaporator/cooler and a packed bed/ composite mesh pad scrubber as control, and exhausting to stack B.
- (b) One (1) hard chrome plating tank, identified as Tank C/D, constructed prior to December 16, 1993 **and modified in 2001**, using a hexavalent chromium bath and having a rectifier capacity of 30,000 amps and a maximum cumulative rectifier capacity of 176,400,000 amp-hours, equipped with an evaporator/cooler and a packed bed/ composite mesh pad scrubber as control, and exhausting to stack C/D.

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

D.1.10 Reporting Requirements [326 IAC 3-6-4(b)][40 CFR 63.344(a), 63.345 & 63.347]

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

(a) Notifications:

(1) Initial Notifications

The Permittee shall notify IDEM, ~~ΘAM~~ **OAQ** in writing that the source is subject to 40 CFR Part 63, Subpart N. The notification shall be submitted no later than one hundred eighty (180) days after the compliance date and shall contain the information listed in 40 CFR 63.347(c)(1).

(2) A Notification of Compliance Status (NCS) is required each time that the facility becomes subject to the requirements of 40 CFR 63.347(e)(2).

(A) The NCS shall be submitted to IDEM, ~~ΘAM~~ **OAQ**, and shall list, for each tank, the information identified in 40 CFR 63.347(e)(2).

(B) The NCS for tanks B and C/D shall be submitted to IDEM, ~~ΘAM~~ **OAQ** immediately.

(3) Notification of Construction or Reconstruction

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

(A) The NCR shall contain the information identified in 40 CFR 63.345(b)(2) and (3).

(B) A change, modification, or reconstruction of this facility includes any change in the air pollution control techniques, the addition of add-on control devices, or the construction of duct work for the purpose of controlling both existing tanks and non-affected facilities by a common control technique or device.

(C) A complete application to construct new chromium electroplating or chromium anodizing tanks serves as this notification. Likewise, the complete application to modify or reconstruct tanks B and C/D serves as this notification.

(D) Pursuant to 326 IAC 2-1.1-2(a), permission must be received from IDEM, ~~ΘAM~~ **OAQ** before construction, modification, or reconstruction may commence.

(b) Performance Test Results

The Permittee shall document results from any future performance tests in a complete test report that contains the information required in 40 CFR 344(a).

The Permittee shall submit reports of performance test results as part of the Notification of Compliance Status, described in 40 CFR 63.347(e), no later than forty-five (45) days following the completion of the performance test.

(c) Ongoing Compliance Status Report

The Permittee shall prepare summary reports to document the ongoing compliance status of tanks B and C/D using the Ongoing Compliance Status Report form provided with this permit. This report shall contain the information specified in 40 CFR 63.347(g)(3).

Because tanks B and C/D are located at a site that is an area source of hazardous air pollutants (HAPs), the Ongoing Compliance Status Report shall be retained on site and made available to IDEM, ~~OAM~~ **OAQ** upon request.

(1) The Ongoing Compliance Status Report shall be completed according to the following schedule except as provided in paragraphs (c)(2).

(A) The first report shall cover the period from the start-up date of the emissions units to December 31 of the year in which the emissions units begin operation.

(B) Following the first year of reporting, the report shall be completed on a calendar year basis with the reporting period covering from January 1 to December 31.

(2) If ~~either~~ **both** of the following conditions are met, semiannual reports shall be prepared and submitted to IDEM, ~~OAM~~ **OAQ**:

(A) The total duration of excess emissions (as indicated by the monitoring data collected by the Permittee in accordance with 40 CFR 63.343(c)) is one percent (1%) or greater of the total operating time as defined in Condition D.1.8(b) for the reporting period; ~~or~~ **and**

(B) The total duration of malfunctions of the add-on air pollution control device and monitoring equipment is five percent (5%) or greater of the total operating time as defined in Condition D.1.8(b).

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

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

On January 1, 2001, the name of the Office of Air Management (OAM) was changed to the Office of Air Quality (OAQ). All references to the Office of Air Management or OAM in the permit have been changed to Office of Air Quality or OAQ.

All other conditions of the permit shall remain unchanged and in effect. Please attach a copy of this letter and the following revised Minor Source Operating Permit to the front of the original permit. The entire updated Minor Source Operating Permit is being provided for your convenience.

This decision is subject to the Indiana Administrative Orders and Procedures Act - IC 4-21.5-3-5. If you have any questions on this matter, please contact CarrieAnn Ortolani, c/o OAQ, 100 North Senate Avenue, P.O. Box 6015, Indianapolis, Indiana, 46206-6015, at 631-691-3395 or in Indiana at 1-800-451-6027 (ext 631-691-3395).

Sincerely,

Paul Dubenetzky, Chief  
Permits Branch  
Office of Air Quality

Attachments  
CAO:MES

cc: File - Porter County  
U.S. EPA, Region V  
Northwest Regional Office  
Air Compliance Section Inspector - Dave Sampias  
Air Compliance Section Inspector - David Rice  
Compliance Data Section - Karen Nowak  
Administrative and Development - Janet Mobley  
Technical Support and Modeling - Michele Boner

# MINOR SOURCE OPERATING PERMIT OFFICE OF AIR QUALITY

**Chrome Deposit Corporation  
6640 Melton Road  
Portage, Indiana 46368**

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

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

Operation Permit No.: MSOP 127-11699-00093	
Issued by: Paul Dubenetzky, Branch Chief Office of Air Quality	Issuance Date: April 20, 2000 Expiration Date: April 20, 2005

Notice Only Change 127-12257-00093, issued on July 19, 2000

Notice-only Change 127-14226-00093	Conditions Affected: A.2 and D.1.10
Issued by: Paul Dubenetzky, Branch Chief Office of Air Quality	Issuance Date: May18, 2001 Expiration Date:

## TABLE OF CONTENTS

<b>A</b>	<b>SOURCE SUMMARY</b> .....	<b>4</b>
A.1	General Information [326 IAC 2-5.1-3(c)] [326 IAC 2-6.1-4(a)]	
A.2	Emission Units and Pollution Control Equipment Summary	
<b>B</b>	<b>GENERAL CONSTRUCTION CONDITIONS</b> .....	<b>6</b>
B.1	Permit No Defense [IC 13]	
B.2	Definitions	
B.3	Effective Date of the Permit [IC 13-15-5-3]	
B.4	Modification to Permit [326 IAC 2]	
<b>C</b>	<b>SOURCE OPERATION CONDITIONS</b> .....	<b>7</b>
C.1	PSD and Emission Offset Minor Source Status [326 IAC 2-2] [40 CFR 52.21] [326 IAC 2-3]	
C.2	Preventive Maintenance Plan [326 IAC 1-6-3]	
C.3	Permit Revision [326 IAC 2-5.1-3(e)(3)] [326 IAC 2-6.1-6]	
C.4	Inspection and Entry [326 IAC 2-5.1-3(e)(4)(B)] [326 IAC 2-6.1-5(a)(4)]	
C.5	Transfer of Ownership or Operation [326 IAC 2-6.1-6(d)(3)]	
C.6	Permit Revocation [326 IAC 2-1-9]	
C.7	Opacity [326 IAC 5-1]	
C.8	Fugitive Dust Emissions [326 IAC 6-4]	
	<b>Testing Requirements</b>	
C.9	Performance Testing [326 IAC 3-6] [326 IAC 2-1.1-11]	
	<b>Compliance Monitoring Requirements</b>	
C.10	Monitoring Methods [326 IAC 3]	
C.11	Actions Related to Noncompliance Demonstrated by a Stack Test	
	<b>Record Keeping and Reporting Requirements</b>	
C.12	Malfunctions Report [326 IAC 1-6-2]	
C.13	Monitoring Data Availability [326 IAC 2-6.1-2] [IC 13-14-1-3]	
C.14	General Record Keeping Requirements [326 IAC 2-6.1-2]	
C.15	General Reporting Requirements [326 IAC 2-1.1-11] [326 IAC 2-6.1-2] [IC 13-14-1-13]	
C.16	Annual Notification [326 IAC 2-6.1-5(a)(5)]	
<b>D.1</b>	<b>EMISSIONS UNIT OPERATION CONDITIONS: hard chrome electroplating</b> .....	<b>14</b>
	<b>Emission Limitations and Standards [326 IAC 2-6.1-5(1)]</b>	
D.1.1	General Provisions Relating to HAPs [326 IAC 20-1-1] [40 CFR Part 63, Subpart A]	
D.1.2	Chromium Electroplating and Anodizing NESHAP [326 IAC 20-8-1][40 CFR Part 63, Subpart N]	
D.1.3	Chromium Emissions Limitation [40 CFR 63.342(c)][40 CFR 63.343(a)(1)&(2)]	
D.1.4	Work Practice Standards [40 CFR 63.342(f)]	
D.1.5	Preventive Maintenance Plan [326 IAC 1-6-3]	
D.1.6	Operation and Maintenance Plan [40 CFR 63.342(f)(3)]	
	<b>Compliance Determination Requirements [326 IAC 2-1.1-11]</b>	
D.1.7	Monitoring to Demonstrate Continuous Compliance [40 CFR 63.343(c)(1)]	
	<b>Compliance Monitoring Requirements [326 IAC 2-6.1-5(a)(2)]</b>	
D.1.8	Monitoring to Demonstrate Continuous Compliance [326 IAC 2-6.1-5(a)(2)]	

- Record Keeping and Reporting Requirements [326 IAC 2-5.1-3(e)(2)] [326 IAC 2-6.1-5(a)(2)]**
- D.1.9 Record Keeping Requirements [40 CFR 63.346]
- D.1.10 Reporting Requirements [326 IAC 3-6-4(b)][40 CFR 63.344(a), 63.345 & 63.347]

**D.2 EMISSIONS UNIT OPERATION CONDITIONS: heating and process operations . . . . . 21**

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

- D.2.1 Particulate Matter (PM) [326 IAC 6-3-2]
- D.2.2 Particulate Matter Limitation (PM) [326 IAC 6-2-4]

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

- D.2.3 Testing Requirements [325 IAC 2-1.1-11]

**Malfunction Report . . . . . 23**

**Chromium Electroplating NESHAP Ongoing Compliance Status Report . . . . . 25**

**Annual Report . . . . . 27**

## 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)]

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The Permittee owns and operates a stationary chromium electroplating source.

Authorized Individual: George Wright  
Source Address: 6640 Melton Road, Portage, Indiana 46368  
Mailing Address: 6640 Melton Road, Portage, Indiana 46368  
Phone Number: 219 - 763 - 1571  
SIC Code: 3470  
County Location: Porter  
County Status: Nonattainment for Ozone  
Attainment area for all other criteria pollutants  
Source Status: Minor Source Operating Permit  
Minor Source, under PSD and Emission Offset Rules;  
Minor Source, Section 112 of the Clean Air Act

### A.2 Emissions units and Pollution Control Equipment Summary

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

- (a) One (1) hard chrome plating tank, identified as Tank B, constructed prior to December 16, 1993 and reconstructed as preventive maintenance in 1999, using a hexavalent chromium bath and having a rectifier capacity of 15,000 amps and a maximum cumulative rectifier capacity of 88,200,000 amp-hours, equipped with an evaporator/cooler and a packed bed/ composite mesh pad scrubber as control, and exhausting to stack B.
- (b) One (1) hard chrome plating tank, identified as Tank C/D, constructed prior to December 16, 1993 and modified in 2001, using a hexavalent chromium bath and having a rectifier capacity of 30,000 amps and a maximum cumulative rectifier capacity of 176,400,000 amp-hours, equipped with an evaporator/cooler and a packed bed/ composite mesh pad scrubber as control, and exhausting to stack C/D.
- (c) Two (2) wash tanks, identified as Wash Tank B and Wash Tank C/D, using 250 pounds per hour of water and 5 pounds per hour of soap, constructed prior to December 16, 1993.
- (d) Two (2) spent wash water holding tanks, identified as Nos. 1 and 2, with associated atmospheric evaporators, exhausting to stacks WR#1 and WR#2.
- (e) Three (3) hot water boilers, constructed in 1994, fired by natural gas, with associated heat exchangers, exhausting to stacks B1, B2 and B3, capacity: 0.413 million British thermal units per hour, each.
- (f) One (1) forced air furnace, identified as 2FF, maximum heat input capacity: 0.117 million British thermal units per hour.

- (g) One (1) forced air furnace, identified as CRF, maximum heat input capacity: 0.075 million British thermal units per hour.
- (h) One (1) forced air furnace, identified as LRF, maximum heat input capacity: 0.084 million British thermal units per hour.
- (i) One (1) forced air furnace, identified as OF, maximum heat input capacity: 0.054 million British thermal units per hour.
- (j) One (1) make-up air heater, identified as Rapid, maximum heat input capacity: 1.75 million British thermal units per hour.
- (k) One (1) make-up air heater, identified as Thermo cycler, maximum heat input capacity: 0.4 million British thermal units per hour.
- (l) One (1) hot water heater, identified as LRWH, maximum heat input capacity: 0.04 million British thermal units per hour.
- (m) One (1) hot water heater, identified as CRWH, maximum heat input capacity: 0.04 million British thermal units per hour.
- (n) Two (2) EDT surface machining machines equipped with torit particulate air filters, one exhausting to stack TF and one exhausting inside the building, capacity: 40,000 pounds per hour, total.
- (o) One (1) wet finishing surface grinder, capacity: 20,000 pounds per hour.

**SECTION B** **GENERAL CONDITIONS**

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

**B.1** Permit No Defense [IC 13]

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

**B.2** Definitions

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

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

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

**B.4** Modification to Permit [326 IAC 2]

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

**SECTION C SOURCE OPERATION CONDITIONS**

Entire Source

C.1 PSD and Emission Offset Minor Source Status [326 IAC 2-2] [40 CFR 52.21] [326 IAC 2-3]

- (a) The total source potential to emit of all criteria pollutants is less than 250 tons per year and the potential to emit of VOC and NO<sub>x</sub> are less than 25 tons per year. Therefore the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration), 326 IAC 2-3 (Emission Offset) and 40 CFR 52.21 will not apply.
  
- (b) Any change or modification which may increase potential to emit of VOC or NO<sub>x</sub> to 25 tons per year, 10 tons per year of any single hazardous air pollutant, twenty-five tons per year of any combination of hazardous air pollutants, or 100 tons per year of any other regulated pollutant from this source, shall cause this source to be considered a major source under Part 70 Permit Program, 326 IAC 2-7, and shall require approval from IDEM, OAQ prior to making the change.

C.2 Preventive Maintenance Plan [326 IAC 1-6-3]

- (a) If required by specific condition(s) in Section D of this permit, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMP) after issuance of this permit, including the following information on each emissions unit:
  - (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;
  - (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions;
  - (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.
  
- (b) The Permittee shall implement the Preventive Maintenance Plans as necessary to ensure that failure to implement the Preventive Maintenance Plan does not cause or contribute to a violation of any limitation on emissions or potential to emit.
  
- (c) PMP's shall be submitted to IDEM, OAQ, upon request and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ, may require the Permittee to revise its Preventive Maintenance Plan whenever lack of proper maintenance causes or contributes to any violation.

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

- (a) The Permittee must comply with the requirements of 326 IAC 2-6.1-6 whenever the Permittee seeks to amend or modify this permit.
  
- (b) Any application requesting an amendment or modification of this permit shall be submitted to:

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

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

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

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

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

- (a) Enter upon the Permittee's premises where a Part 70 source is located, or emissions related activity is conducted, or where records must be kept under the conditions of this permit;
- (b) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
- (c) Inspect, at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit;
- (d) Sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with this permit or applicable requirements; and
- (e) Utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of assuring compliance with this permit or applicable requirements.
  - (1) The Permittee may assert a claim that, in the opinion of the Permittee, information removed or about to be removed from the source by IDEM, OAQ, or an authorized representative, contains information that is confidential under IC 5-14-3-4(a). The claim shall be made in writing before or at the time the information is removed from the source. In the event that a claim of confidentiality is so asserted, neither IDEM, OAQ, nor an authorized representative, may disclose the information unless and until IDEM, OAQ, makes a determination under 326 IAC 17-1-7 through 326 IAC 17-1-9 that the information is not entitled to confidential treatment and that determination becomes final. [IC 5-14-3-4; IC 13-14-11-3; 326 IAC 17-1-7 through 326 IAC 17-1-9]
  - (2) The Permittee, and IDEM, OAQ, acknowledge that the federal law applies to claims of confidentiality made by the Permittee with regard to information removed or about to be removed from the source by U.S. EPA. [40 CFR Part 2, Subpart B]

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

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

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

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

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

Pursuant to 326 IAC 2-1-9(a)(Revocation of Permits), this permit to operate may be revoked for any of the following causes:

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

**C.7 Opacity [326 IAC 5-1]**

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

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

**C.8 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). 326 IAC 6-4-2(4) is not federally enforceable.

**Testing Requirements**

**C.9 Performance Testing [326 IAC 3-6][326 IAC 2-1.1-11]**

- (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 methods approved by IDEM, OAQ.

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

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

at least sixty (60) days before the intended test date for all chromium electroplating facilities and no later than thirty-five (35) days prior to the intended test date for all other facilities. The Permittee shall submit a notice of the actual test date to the above address so that it is received at least two (2) weeks prior to the test date.

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

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

### **Compliance Monitoring Requirements**

#### **C.10 Monitoring Methods [326 IAC 3]**

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

#### **C.11 Actions Related to Noncompliance Demonstrated by a Stack Test**

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- (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 corrective actions. The Permittee shall submit a description of these corrective actions to IDEM, OAQ, within thirty (30) days of receipt of the test results. The Permittee shall take appropriate action to minimize emissions from the affected emissions unit while the corrective actions are being implemented. IDEM, OAQ shall notify the Permittee within thirty (30) days, if the corrective actions taken are deficient. The Permittee shall submit a description of additional corrective actions taken to IDEM, OAQ within thirty (30) days of receipt of the notice of deficiency. IDEM, OAQ reserves the authority to use enforcement activities to resolve noncompliant stack tests.
- (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. Failure of the second test to demonstrate compliance with the appropriate permit conditions may be grounds for immediate revocation of the permit to operate the affected emissions unit.

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

### **Record Keeping and Reporting Requirements**

#### **C.12 Malfunctions Report [326 IAC 1-6-2]**

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

- (a) A record of all malfunctions, including startups or shutdowns of any facility or emission control equipment, which result in violations of applicable air pollution control regulations or applicable emission limitations shall be kept and retained for a period of three (3) years and shall be made available to the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ) or appointed representative upon request.

- (b) When a malfunction of any facility or emission control equipment occurs which lasts more than one (1) hour, said condition shall be reported to OAQ, using the Malfunction Report Forms (2 pages). Notification shall be made by telephone or facsimile, as soon as practicable, but in no event later than four (4) daytime business hours after the beginning of said occurrence.
- (c) Failure to report a malfunction of any emission control equipment shall constitute a violation of 326 IAC 1-6, and any other applicable rules. Information of the scope and expected duration of the malfunction shall be provided, including the items specified in 326 IAC 1-6-2(a) (1) through (6).
- (d) Malfunction is defined as any sudden, unavoidable failure of any air pollution control equipment, process, or combustion or process equipment to operate in a normal and usual manner. [326 IAC 1-2-39]

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

- (a) With the exception of performance tests conducted in accordance with Section C- Performance Testing, all observations, sampling, maintenance procedures, and record keeping, required as a condition of this permit shall be performed at all times the equipment is operating at normal representative conditions.
- (b) As an alternative to the observations, sampling, maintenance procedures, and record keeping of subsection (a) above, when the equipment listed in Section D of this permit is not operating, the Permittee shall either record the fact that the equipment is shut down or perform the observations, sampling, maintenance procedures, and record keeping that would otherwise be required by this permit.
- (c) If the equipment is operating but abnormal conditions prevail, additional observations and sampling should be taken with a record made of the nature of the abnormality.
- (d) If for reasons beyond its control, the operator fails to make required observations, sampling, maintenance procedures, or record keeping, reasons for this must be recorded.
- (e) At its discretion, IDEM may excuse such failure providing adequate justification is documented and such failures do not exceed five percent (5%) of the operating time in any quarter.
- (f) Temporary, unscheduled unavailability of staff qualified to perform the required observations, sampling, maintenance procedures, or record keeping shall be considered a valid reason for failure to perform the requirements stated in (a) above.

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

- (a) Records of all required monitoring data and support information shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. These records shall be kept at the source location for a minimum of three (3) years and available upon the request of an IDEM, OAQ, representative. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner makes a written request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.
- (b) Records of required monitoring information shall include, where applicable:
  - (1) The date, place, and time of sampling or measurements;

- (2) The dates analyses were performed;
  - (3) The company or entity performing the analyses;
  - (4) The analytic techniques or methods used;
  - (5) The results of such analyses; and
  - (6) The operating conditions existing at the time of sampling or measurement.
- (c) Support information shall include, where applicable:
- (1) Copies of all reports required by this permit;
  - (2) All original strip chart recordings for continuous monitoring instrumentation;
  - (3) All calibration and maintenance records;
  - (4) Records of preventive maintenance shall be sufficient to demonstrate that failure to implement the Preventive Maintenance Plan did not cause or contribute to a violation of any limitation on emissions or potential to emit. To be relied upon subsequent to any such violation, these records may include, but are not limited to: work orders, parts inventories, and operator's standard operating procedures. Records of response steps taken shall indicate whether a deviation from a permit condition was reported. All records shall briefly describe what maintenance and response steps were taken and indicate who performed the tasks.
- (d) All record keeping requirements not already legally required shall be implemented when operation begins.

C.15 General Reporting Requirements [326 IAC 2-1.1-11] [326 IAC 2-6.1-2] [IC 13-14-1-13]

- (a) To affirm that the source has met all the compliance monitoring requirements stated in this permit the source shall submit a Semi-annual Compliance Monitoring Report. Any deviation from the requirements and the date(s) of each deviation must be reported. The Compliance Monitoring Report shall include the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (b) The report required in (a) of this condition and reports required by conditions in Section D of this permit shall be submitted to:  
  
Indiana Department of Environmental Management  
Compliance Data Section, Office of Air Quality  
100 North Senate Avenue, P. O. Box 6015  
Indianapolis, Indiana 46206-6015
- (c) 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.
- (d) Unless otherwise specified in this permit, any semi-annual report shall be submitted within thirty (30) days of the end of the reporting period. The report does not require the certifica-

tion by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (e) All instances of deviations must be clearly identified in such reports. A reportable deviation is an exceedance of a permit limitation or a failure to comply with a requirement of the permit or a rule. It does not include:
- (1) An excursion from compliance monitoring parameters as identified in Section D of this permit unless tied to an applicable rule or limit; or
  - (2) A malfunction as described in 326 IAC 1-6-2; or
  - (3) Failure to implement elements of the Preventive Maintenance Plan unless lack of maintenance has caused or contributed to a deviation.
  - (4) Failure to make or record information required by the compliance monitoring provisions of Section D unless such failure exceeds 5% of the required data in any calendar quarter.

A Permittee's failure to take the appropriate response step when an excursion of a compliance monitoring parameter has occurred or failure to monitor or record the required compliance monitoring is a deviation.

- (f) Any corrective actions or response steps taken as a result of each deviation must be clearly identified in such reports.
- (g) The first report shall cover the period commencing on the date of issuance of this permit and ending on the last day of the reporting period.

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

- (a) Annual notification shall be submitted to the Office of Air Quality stating whether or not the source is in operation and in compliance with the terms and conditions contained in this permit.
- (b) Noncompliance with any condition must be specifically identified. If there are any permit conditions or requirements for which the source is not in compliance at any time during the year, the Permittee must provide a narrative description of how the source did or will achieve compliance and the date compliance was, or will be, achieved. The notification must be signed by an authorized individual.
- (c) The annual notice shall cover the time period from January 1 to December 31 of the previous year, and shall be submitted in the format attached no later than March 1 of each year to:
- Compliance Data Section, Office of Air Quality  
Indiana Department of Environmental Management  
100 North Senate Avenue, P.O. Box 6015  
Indianapolis, IN 46206-6015
- (d) The notification shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, on or before the date it is due.

## SECTION D.1 EMISSIONS UNIT OPERATION CONDITIONS

### Emissions Unit Description:

- (a) One (1) hard chrome plating tank, identified as Tank B, constructed prior to December 16, 1993 and reconstructed as preventive maintenance in 1999, using a hexavalent chromium bath and having a rectifier capacity of 15,000 amps and a maximum cumulative rectifier capacity of 88,200,000 amp-hours, equipped with an evaporator/cooler and a packed bed/ composite mesh pad scrubber as control, and exhausting to stack B.
- (b) One (1) hard chrome plating tank, identified as Tank C/D, constructed prior to December 16, 1993 and modified in 2001, using a hexavalent chromium bath and having a rectifier capacity of 30,000 amps and a maximum cumulative rectifier capacity of 176,400,000 amp-hours, equipped with an evaporator/cooler and a packed bed/ composite mesh pad scrubber as control, and exhausting to stack C/D.

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

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

#### D.1.1 General Provisions Relating to HAPs [326 IAC 20-1-1][40 CFR Part 63, Subpart A]

The provisions of 40 CFR Part 63, Subpart A - General Provisions, which are incorporated as 326 IAC 20-1-1, apply to the facility described in this section except when otherwise specified in 40 CFR Part 63, Subpart N. The Permittee shall comply with the requirements of this condition on and after the compliance date for the tanks.

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

The provisions of 40 CFR 63, Subpart N - National Emission Standards for Chromium Emissions From Hard and Decorative Chromium Electroplating and Chromium Anodizing Tanks, which are incorporated by reference as 326 IAC 20-8-1, apply to Tanks B and C/D. A copy of this rule is attached. The Permittee shall comply with the requirements of this condition on and after the compliance date for the tanks.

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

- (a) The emission limitations in this condition apply only during tank operation, and also apply during periods of startup and shutdown as these are routine occurrences for tanks subject to 326 IAC 20-8-1. The emission limitations do not apply during times of malfunction.
- (b) The hard chromium electroplating tanks, identified as B and C/D above, are considered a large, existing hard chromium electroplating operation. During tank operation, the Permittee shall control chromium emissions discharged to the atmosphere from the tanks by not allowing the concentration of total chromium in the exhaust gas stream discharged to the atmosphere to exceed 0.015 milligrams of total chromium per dry standard cubic meter (mg/dscm)[ $6.6 \times 10^{-6}$  gr/dscf].

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

The following work practice standards apply to Tanks B and C/D:

- (a) At all times, including periods of startup, shutdown, malfunction, and excess emissions, the Permittee shall operate and maintain tanks B and C/D, including the packed bed/composite mesh pad systems and monitoring equipment, in a manner consistent with good air

pollution control practices, consistent with the Operation and Maintenance Plan (OMP) required by Condition D.1.6.

- (b) Malfunctions and excess emissions shall be corrected as soon as practicable after their occurrence in accordance with the OMP required by Condition D.1.6.
- (c) These operation and maintenance requirements are enforceable independent of emissions limitations or other requirements in this section.
- (d) Determination of whether acceptable operation and maintenance procedures are being used will be based on information available to IDEM, OAQ, which may include, but is not limited to, monitoring results; review of the OMP, procedures, and records; and inspection of the source.
- (e) Based on the results of the determination made under paragraph (b), IDEM, OAQ may require that the Permittee make changes to the OMP required by Condition D.1.6. Revisions may be required if IDEM, OAQ finds that the plan:
  - (A) Does not address a malfunction or period of excess emissions that has occurred;
  - (B) Fails to provide for the operation of tanks B and C/D, the air pollution control techniques, or the packed bed/composite mesh pad systems 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.

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

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

A Preventive Maintenance Plan (PMP), in accordance with Section B - Preventive Maintenance Plan, of this permit is required for these facilities and the packed bed/composite mesh pad systems.

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

- (a) The Permittee shall prepare an Operation and Maintenance Plan (OMP) to be implemented no later than the startup date of the tanks. The OMP shall specify the operation and maintenance criteria for tanks B and C/D, the packed bed/composite mesh pad systems, and monitoring equipment, and shall include the following elements:
  - (1) For the packed bed/composite mesh-pad system (PBS/CMP):
    - (A) Quarterly visual inspection of the device to ensure there is proper drainage, no chromic acid buildup on the pads, and no evidence of chemical attack on the structural integrity of the device;
    - (B) Quarterly visual inspection of the back portion of the mesh pads closest to the fan to ensure there is no breakthrough of chromic acid mist;
    - (C) Quarterly visual inspection of the duct work from the tanks to the control devices to ensure there are no leaks;

- (D) Perform washdown of the composite mesh pads in accordance with manufacturer's recommendations.
  - (2) A standardized checklist to document the operation and maintenance criteria for tanks B and C/D, the packed bed/composite mesh pad systems, and monitoring equipment;
  - (3) Procedures to be followed to ensure that equipment or process malfunctions due to poor maintenance or other preventable conditions or periods of excess emissions as indicated by monitoring data do not occur;
  - (4) A systematic procedure for identifying malfunctions and periods of excess of tanks B and C/D, the packed bed/composite mesh pad systems, and monitoring equipment; and for implementing corrective actions to address such malfunctions and periods of excess emissions.
- (b) The Permittee may use applicable standard operating procedures (SOP) manuals, occupational safety and health administration (OSHA) plans, or other existing plans such as the PMP required in Condition D.1.5, as the OMP provided the alternative plans meet the criteria listed above in Condition D.1.6(a).
  - (c) If the OMP fails to address or inadequately addresses an event that meets the characteristics of a malfunction or a period of excess emissions at the time the plan is initially developed, the Permittee shall revise the OMP within forty five (45) days after such an event occurs. The revised plan shall include procedures for operating and maintaining tanks B and C/D, the packed bed/composite mesh pad systems, and monitoring equipment, during similar malfunction or period of excess emissions events, and a program for corrective action for such events.
  - (d) If actions taken by the Permittee during periods of malfunction or periods of excess emissions are inconsistent with the procedures specified in the OMP, the Permittee shall record the actions taken for that event and shall report by phone such actions within two (2) working days after commencing actions inconsistent with the plan. This report shall be followed by a letter within seven (7) working days after the end of the event, unless the Permittee makes alternative reporting arrangements, in advance, with IDEM, OAQ.
  - (e) The Permittee shall keep the written OMP on record after it is developed to be made available, upon request, by IDEM, OAQ for the life of tanks B and C/D or until tanks B and C/D are no longer subject to the provisions of 40 CFR 63.340. In addition, if the OMP is revised, the Permittee shall keep previous versions of the OMP on record to be made available for inspection, upon request by IDEM, OAQ for a period of five (5) years after each revision to the plan.

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

#### D.1.7 Monitoring to Demonstrate Continuous Compliance [40 CFR 63.343 (c)(1)]

- (a) Performance tests demonstrating initial compliance for tank B were performed on January 6, 1997 and January 7, 1997.

During the initial performance tests, it was determined that the average pressure drop across the system was 1.66 inches of water and the average outlet chromium concentration is 0.0035 mg/dscm.

- (b) Performance tests demonstrating initial compliance for tank C/D were performed on December 18, 1996 and December 19, 1996.

During the initial performance tests, it was determined that the average pressure drop across the system was 1.84 inches of water and the average outlet chromium concentration is 0.0014 mg/dscm.

- (c) The Permittee is not required to test these facilities by this permit. However, IDEM may require compliance testing at any specific time when necessary to determine if the tanks are in compliance. If testing is required by the IDEM, compliance with the limits specified in Condition D.1.3 shall be determined by a performance test conducted in accordance with the provisions of 40 CFR 63.344 and Section C - Performance Testing.

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

#### D.1.8 Monitoring to Demonstrate Continuous Compliance [326 IAC 2-6.1-5(a)(2)]

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

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

#### D.1.9 Record Keeping Requirements [40 CFR 63.346]

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

- (a) Inspection records for the packed bed/composite mesh pad systems and monitoring equipment to document that the inspection and maintenance required by Conditions D.1.7 and D.1.8 have taken place. The record can take the form of a checklist and should identify the following:
- (1) The device inspected;
  - (2) The date of inspection;
  - (3) A brief description of the working condition of the device during the inspection, including any deficiencies found; and
  - (4) Any actions taken to correct deficiencies found during the inspection, including the date(s) such actions were taken.

- (b) Records of all maintenance performed on tanks B and C/D, the packed bed/composite mesh pad systems and monitoring equipment.
- (c) Records of the occurrence, duration, and cause (if known) of each malfunction of tanks B and C/D, the packed bed/composite mesh pad systems and monitoring equipment.
- (d) Records of the occurrence, duration, and cause (if known) of each period of excess emissions of tanks B and C/D, the packed bed/composite mesh pad systems and monitoring equipment as indicated by monitoring data collected in accordance with this condition.
- (e) Records of actions taken during periods of malfunction when such actions are inconsistent with the OMP.
- (f) Other records, which may take the form of checklists, necessary to demonstrate consistency with the provisions of the OMP.
- (g) Test reports documenting results of all performance tests.
- (h) And all measurements as may be necessary to determine the conditions of performance tests, including measurements necessary to determine compliance.
- (i) Records of monitoring data required by 40 CFR 63.343(c) that are used to demonstrate compliance with the standard including the date and time the data are collected.
- (j) The total process operating times, as defined by D.1.8(b), of each tank (B and C/D), during the reporting period.
- (k) Records of the actual cumulative rectifier capacity of each hard chromium electroplating tank expended during each month of the reporting period, and the total capacity expended to date for a reporting period.
- (l) All documentation supporting the notifications and reports required by 40 CFR 63.9 and 63.10 (Subpart A, General Provisions) and by Condition D.1.10.

D.1.10 Reporting Requirements [326 IAC 3-6-4(b)][40 CFR 63.344(a), 63.345 & 63.347]

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

- (a) Notifications:
  - (1) Initial Notifications  
The Permittee shall notify IDEM, OAQ in writing that the source is subject to 40 CFR Part 63, Subpart N. The notification shall be submitted no later than one hundred eighty (180) days after the compliance date and shall contain the information listed in 40 CFR 63.347(c)(1).
  - (2) A Notification of Compliance Status (NCS) is required each time that the facility becomes subject to the requirements of 40 CFR 63.347(e)(2).
    - (A) The NCS shall be submitted to IDEM, OAQ, and shall list, for each tank, the information identified in 40 CFR 63.347(e)(2).

- (B) The NCS for tanks B and C/D shall be submitted to IDEM, OAQ immediately.
- (3) Notification of Construction or Reconstruction  
Pursuant to 40 CFR 63.345(b)(1), the Permittee may not construct a new tank subject to 40 CFR 63, Subpart N (including non-affected tanks defined in 40 CFR 63.344(e)) without submitting a Notification of Construction or Reconstruction (NCR) to IDEM, OAQ. In addition, the Permittee may not change, modify, or reconstruct tanks B and C/D without submitting a Notification of Construction or Reconstruction (NCR) to IDEM, OAQ.
  - (A) The NCR shall contain the information identified in 40 CFR 63.345(b)(2) and (3).
  - (B) A change, modification, or reconstruction of this facility includes any change in the air pollution control techniques, the addition of add-on control devices, or the construction of duct work for the purpose of controlling both existing tanks and non-affected facilities by a common control technique or device.
  - (C) A complete application to construct new chromium electroplating or chromium anodizing tanks serves as this notification. Likewise, the complete application to modify or reconstruct tanks B and C/D serves as this notification.
  - (D) Pursuant to 326 IAC 2-1.1-2(a), permission must be received from IDEM, OAQ before construction, modification, or reconstruction may commence.
- (b) Performance Test Results  
The Permittee shall document results from any future performance tests in a complete test report that contains the information required in 40 CFR 344(a).  
  
The Permittee shall submit reports of performance test results as part of the Notification of Compliance Status, described in 40 CFR 63.347(e), no later than forty-five (45) days following the completion of the performance test.
- (c) Ongoing Compliance Status Report  
The Permittee shall prepare summary reports to document the ongoing compliance status of tanks B and C/D using the Ongoing Compliance Status Report form provided with this permit. This report shall contain the information specified in 40 CFR 63.347(g)(3).  
  
Because tanks B and C/D are located at a site that is an area source of hazardous air pollutants (HAPs), the Ongoing Compliance Status Report shall be retained on site and made available to IDEM, OAQ upon request.
  - (1) The Ongoing Compliance Status Report shall be completed according to the following schedule except as provided in paragraphs (c)(2).
    - (A) The first report shall cover the period from the start-up date of the emissions units to December 31 of the year in which the emissions units begin operation.

- (B) Following the first year of reporting, the report shall be completed on a calendar year basis with the reporting period covering from January 1 to December 31.
- (2) If either of the following conditions are met, semiannual reports shall be prepared and submitted to IDEM, OAQ:
  - (A) The total duration of excess emissions (as indicated by the monitoring data collected by the Permittee in accordance with 40 CFR 63.343(c)) is one percent (1%) or greater of the total operating time as defined in Condition D.1.8(b) for the reporting period; or
  - (B) The total duration of malfunctions of the add-on air pollution control device and monitoring equipment is five percent (5%) or greater of the total operating time as defined in Condition D.1.8(b).

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

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

**SECTION D.2**

**EMISSIONS UNIT OPERATION CONDITIONS**

**Emissions Unit Description:**

- (c) Two (2) wash tanks, identified as Wash Tank B and Wash Tank C/D, using 250 pounds per hour of water and 5 pounds per hour of soap, constructed prior to December 16, 1993.
- (d) Two (2) spent wash water holding tanks, identified as Nos. 1 and 2, with associated atmospheric evaporators, exhausting to stacks WR#1 and WR#2.
- (e) Three (3) hot water boilers, constructed in 1994, fired by natural gas, with associated heat exchangers, exhausting to stacks B1, B2 and B3, capacity: 0.413 million British thermal units per hour, each.
- (f) One (1) forced air furnace, identified as 2FF, maximum heat input capacity: 0.117 million British thermal units per hour.
- (g) One (1) forced air furnace, identified as CRF, maximum heat input capacity: 0.075 million British thermal units per hour.
- (h) One (1) forced air furnace, identified as LRF, maximum heat input capacity: 0.084 million British thermal units per hour.
- (i) One (1) forced air furnace, identified as OF, maximum heat input capacity: 0.054 million British thermal units per hour.
- (j) One (1) make-up air heater, identified as Rapid, maximum heat input capacity: 1.75 million British thermal units per hour.
- (k) One (1) make-up air heater, identified as Thermo cycler, maximum heat input capacity: 0.4 million British thermal units per hour.
- (l) One (1) hot water heater, identified as LRWH, maximum heat input capacity: 0.04 million British thermal units per hour.
- (m) One (1) hot water heater, identified as CRWH, maximum heat input capacity: 0.04 million British thermal units per hour.
- (n) Two (2) EDT surface machining machines equipped with torit particulate air filters, one exhausting to stack TF and one exhausting inside the building, capacity: 40,000 pounds per hour, total.
- (o) One (1) wet finishing surface grinder, capacity: 20,000 pounds per hour.

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

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

**D.2.1 Particulate Matter (PM) [326 IAC 6-3-2]**

- (a) Pursuant to 326 IAC 6-3-2 (Process Operations), the particulate matter (PM) from each of the two (2) EDT machines shall be limited to less than 19.2 pounds per hour, each, taking

into account control by the torit air filters, when operating of a process weight rate of 20,000 pounds per hour, each.

- (b) Pursuant to 326 IAC 6-3-2 (Process Operations), the particulate matter (PM) from the wet finishing surface grinder shall be limited to less than 19.2 pounds per hour when operating of a process weight rate of 20,000 pounds per hour.

The limitations were calculated using the following equation:

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

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

#### D.2.2 Particulate Matter Limitation (PM) [326 IAC 6-2-4]

Pursuant to 326 IAC 6-2-4(a), for Q less than 10 million British thermal units per hour, Pt shall not exceed 0.6 pound per million British thermal units. Since the emission limitation calculated in the following equation is greater than 0.6 pounds per million British thermal unit, each of the three (3) boilers are limited to emissions of 0.6 pound per million British thermal units.

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

where:

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

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

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

#### D.2.3 Testing Requirements [326 IAC 2-1.1-11]

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

**MALFUNCTION REPORT**

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF AIR QUALITY  
FAX NUMBER - 317 233-5967**

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

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

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

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

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

COMPANY: \_\_\_\_\_ Chrome Deposit Corporation \_\_\_\_\_ PHONE NO. : \_\_\_\_\_ 219 - 763 - 1571 \_\_\_\_\_  
LOCATION: (CITY AND COUNTY) \_\_\_\_\_ Portage / Porter \_\_\_\_\_  
PERMIT NO. \_\_\_\_\_ 127-11699 \_\_\_\_\_ AFS PLANT ID: \_\_\_\_\_ 127-00093 \_\_\_\_\_ AFS POINT ID: \_\_\_\_\_ INSP: \_\_\_\_\_  
CONTROL/PROCESS DEVICE WHICH MALFUNCTIONED AND REASON: \_\_\_\_\_

DATE/TIME MALFUNCTION STARTED: \_\_\_\_\_ / \_\_\_\_\_ / 19\_\_\_\_\_ \_\_\_\_\_ AM / PM

ESTIMATED HOURS OF OPERATION WITH MALFUNCTION CONDITION: \_\_\_\_\_

DATE/TIME CONTROL EQUIPMENT BACK-IN SERVICE \_\_\_\_\_ / \_\_\_\_\_ / 19\_\_\_\_\_ \_\_\_\_\_ 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:

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

**CHROMIUM ELECTROPLATING NESHAP  
 ONGOING COMPLIANCE STATUS REPORT**  
*(Complete this form for each affected tank)*

Source Name: Chrome Deposit Corporation  
 Source Address: 6640 Melton Road, Portage, Indiana 46368  
 Mailing Address: 6640 Melton Road, Portage, Indiana 46368  
 MSOP No.: 127-11699-00093

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

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

<b>MAJOR AND AREA SOURCES: CHECK ONE</b>	
<b>9</b>	NO DEVIATIONS OF THE MONITORING PARAMETER ASSOCIATED WITH THIS TANK FROM THE COMPLIANT VALUE OR RANGE OF VALUES OCCURRED DURING THIS REPORTING PERIOD.
<b>9</b>	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).

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

## CHROMIUM ELECTROPLATING NESHAP ONGOING COMPLIANCE STATUS REPORT

ATTACH A SEPARATE PAGE IF NEEDED

Page 2 of 2

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

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

ADDITIONAL COMMENTS:

**ALL SOURCES: CHECK ONE**

**9**

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

**9**

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

Submitted by: \_\_\_\_\_  
Title/Position: \_\_\_\_\_  
Signature: \_\_\_\_\_  
Date: \_\_\_\_\_  
Phone: \_\_\_\_\_

Attach a signed certification to complete this report.

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

**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).

<b>Company Name:</b>	<b>Chrome Deposit Corporation</b>
<b>Address:</b>	<b>6640 Melton Road</b>
<b>City:</b>	<b>Portage, Indiana 46368</b>
<b>Phone #:</b>	<b>219 - 763 - 1571</b>
<b>MSOP #:</b>	<b>127-11699-00093</b>

I hereby certify that Chrome Deposit Corporation is  still in operation.  
 no longer in operation.

I hereby certify that Chrome Deposit Corporation is  in compliance with the requirements of MSOP **127-11699-00093**.  
 not in compliance with the requirements of MSOP **127-11699-00093**.

<b>Authorized Individual (typed):</b>	<b>George Wright</b>
<b>Title:</b>	
<b>Signature:</b>	
<b>Date:</b>	

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.

<b>Noncompliance:</b>

## Indiana Department of Environmental Management Office of Air Quality

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

#### Source Background and Description

<b>Source Name:</b>	<b>Chrome Deposit Corporation</b>
<b>Source Location:</b>	<b>6640 Melton Road, Portage, Indiana 46368</b>
<b>County:</b>	<b>Porter</b>
<b>SIC Code:</b>	<b>3470</b>
<b>Operation Permit No.:</b>	<b>MSOP 127-11699-00093</b>
<b>Operation Permit Issuance Date:</b>	<b>April 20, 2000</b>
<b>Minor Permit Revision No.:</b>	<b>MPR 127-14226-00093</b>
<b>Permit Reviewer:</b>	<b>CarrieAnn Ortolani</b>

The Office of Air Quality (OAQ) has reviewed a revision application from Chrome Deposit Corporation relating to the construction and operation of the following emission unit, which will replace a similar existing emission unit:

- (a) One (1) hard chrome plating tank, identified as Tank C/D, constructed in 2001, using a hexavalent chromium bath and having a rectifier capacity of 30,000 amps and a maximum cumulative rectifier capacity of 176,400,000 amp-hours, equipped with an evaporator/cooler and a packed bed/composite mesh pad scrubber as control, and exhausting to stack C/D.

The only equipment being replaced is the tank and the duct from the tank. The new tank will not increase the potential to emit of the source.

#### History

On April 4, 2001, Chrome Deposit Corporation submitted an application to the OAQ requesting to replace a chromium electroplating tank and the duct from the tank with a similar emission unit that will not increase the capacity of the existing hard chromium electroplating source. Chrome Deposit Corporation was issued a Minor Source Operating Permit (MSOP) on April 20, 2000. A notice-only change (127-12257-00093) was issued on July 19, 2000.

#### Enforcement Issue

There are no enforcement actions pending.

#### Stack Summary

Stack ID	Operation	Height (feet)	Diameter (feet)	Flow Rate (acfm)	Temperature (EF)
C/D	Hard Chromium Electroplating	40.0	2.3	8,000	65

### Recommendation

The staff recommends to the Commissioner that the MSOP Minor Permit Revision 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 April 4, 2001.

### Emission Calculations

Chromium emissions (Single HAP) from the biggest chromium electroplating source in Indiana are less than ten (10) tons per year and Chrome Deposit Corporation is a much smaller source in comparison. Therefore, no emission calculations were necessary for the chromium electroplating because the chromium emissions from this source will be less than ten (10) tons per year. The applicant has indicated that the new construction will not increase the potential to emit of the source.

### Potential To Emit of Revision

Pursuant to 326 IAC 2-1.1-1(16), Potential to Emit is defined as “the maximum capacity of a stationary source 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.”

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

Pollutant	Potential To Emit (tons/year)
PM	0.00
PM <sub>10</sub>	0.00
SO <sub>2</sub>	0.00
VOC	0.00
CO	0.00
NO <sub>x</sub>	0.00

  

HAPs	Potential To Emit (tons/year)
Chromium	less than 10
TOTAL	less than 25

### Justification for Revision

The MSOP is being revised through a MSOP Minor Permit Revision. This revision is being performed pursuant to 326 IAC 2-6.1-6(g)(6), “A modification that is not described under subsection

(d)(14) or (d)(15) and is subject to a RACT, a NSPS, or a NESHAP, and the RACT, NSPS, or NESHAP is the most stringent applicable requirement, except for those modifications that would be subject to the provisions of 40 CFR 63, Subpart B (61 FR 68384, December 27, 1996) Hazardous Air Pollutants: Regulations Governing Constructed or Reconstructed Major Sources\*. As part of the application required under subsection (c), the applicant shall acknowledge the requirement to comply with the RACT, NSPS, or NESHAP.” This new construction is not considered routine maintenance because it consists of replacing an entire emissions unit.

**County Attainment Status**

The source is located in Porter County.

Pollutant	Status
PM <sub>10</sub>	attainment
SO <sub>2</sub>	attainment
NO <sub>2</sub>	attainment
Ozone	severe nonattainment
CO	attainment
Lead	attainment

- (a) Volatile organic compounds (VOC) and oxides of nitrogen are precursors for the formation of ozone. Therefore, VOC and NO<sub>x</sub> emissions are considered when evaluating the rule applicability relating to the ozone standards. Porter County has been designated as non-attainment for ozone. Therefore, VOC and NO<sub>x</sub> emissions were reviewed pursuant to the requirements for Emission Offset, 326 IAC 2-3.
- (b) Porter County has been classified as attainment or unclassifiable for all other criteria pollutants. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2 and 40 CFR 52.21.
- (c) Fugitive Emissions  
 Since this type of operation is not one of the 28 listed source categories under 326 IAC 2-2 and since there are no applicable New Source Performance Standards that were in effect on August 7, 1980, the fugitive PM emissions are not counted toward determination of PSD and Emission Offset applicability.

**Source Status**

Existing Source PSD or Emission Offset Definition (emissions after controls, based upon 8760 hours of operation per year at rated capacity and/or as otherwise limited):

Pollutant	Emissions (ton/yr)
PM	0.182
PM <sub>10</sub>	0.277
SO <sub>2</sub>	0.010

Pollutant	Emissions (ton/yr)
VOC	0.092
CO	1.40
NO <sub>x</sub>	1.66

- (a) This existing source is not a major stationary source because no attainment regulated pollutant is emitted at a rate of 250 tons per year or more, and it is not in one of the 28 listed source categories.
- (b) This existing source is not a major stationary source because no nonattainment regulated pollutant is emitted at a rate of 25 tons per year.
- (c) These emissions were based on the potential to emit of the entire source after controls.

**Potential to Emit of Revision After Issuance**

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

Process/facility	Potential to Emit (tons/year)						
	PM	PM <sub>10</sub>	SO <sub>2</sub>	VOC	CO	NO <sub>x</sub>	HAPs
Proposed Revision	0.00	0.00	0.00	0.00	0.00	0.00	Less than 10
PSD or Offset Threshold Level	250	250	250	25	250	250	-

This revision to an existing minor stationary source is not major because the emission increase is less than the PSD and Emission Offset threshold levels. Therefore, pursuant to 326 IAC 2-2, and 40 CFR 52.21, the PSD requirements do not apply, and pursuant to 326 IAC 2-3, the Emission Offset requirements do not apply.

Since this unit new unit is replacing an existing emissions unit and there is no increase in the potential to emit as a result of this change, this revision to the existing MSOP will not change the status of the stationary source because the potential emissions from the entire source will still be less than the Part 70 major source thresholds.

**Federal Rule Applicability**

- (a) There are no New Source Performance Standards (NSPS)(326 IAC 12 and 40 CFR Part 60) applicable to this source.
- (b) Tank C/D is subject to the National Emission Standards for Hazardous Air Pollutants, 326 IAC 14, (40 CFR 63, Subpart N, and 326 IAC 20-8-1). Pursuant to 40 CFR 63, Subpart N, and 326 IAC 20-8-1, the chromium electroplating operations are subject to the following conditions:

- (1) The Permittee shall comply with this limit on and after the compliance date for the tank. The hard chromium electroplating tank, identified as C/D above, is considered a large, new hard chromium electroplating operation. During tank operation, the Permittee shall control chromium emissions discharged to the atmosphere from the tank by not allowing the concentration of total chromium in the exhaust gas stream discharged to the atmosphere to exceed fifteen-thousandth milligrams of total chromium per dry standard cubic meter of ventilation air (0.015 mg/dscm) [equivalent to six and six-tenths times ten raised to the power of negative six grains of total chromium per dry standard cubic foot of ventilation air ( $6.6 \times 10^{-6}$  gr/dscf)].
- (2) An Operation and Maintenance Plan (OMP), in accordance with 40 CFR 63.342(f)(3) shall be prepared and maintained and shall specify the operation and maintenance criteria for the tank, the composite mesh pad system/ packed bed scrubber and monitoring equipment.
- (3) The Permittee is required to conduct an initial performance test within 180 days after startup of tank C/D using the procedures and methods in 40 CFR 63.344 and 40 CFR 63.7 and in accordance with Section C - Performance Testing. During the initial performance test and pursuant to 40 CFR 63.343(c)(3) and 63.343(c)(1)(i), when using a packed bed scrubber in conjunction with a composite mesh-pad system to comply with the limit, the Permittee shall determine the outlet chromium concentration using the test methods in 40 CFR 63.344(c) and shall establish as a site-specific operating parameter the pressure drop across the system, setting the value that corresponds to compliance with the applicable emission limitation using the procedures in 40 CFR 63.344(d)(5). The Permittee may conduct multiple performance tests to establish a range of compliant pressure drop values, or may set as the compliant value the average pressure drop measured over the three test runs of one performance test, and accept  $\pm 1$  inch of water column from this value as the compliant range.
- (4) Reporting Requirements
  - (A) A summary report shall be prepared to document the ongoing compliance status of the chromium electroplating operation. This report shall be completed annually, retained on site, and made available to IDEM upon request. If there are significant exceedance of chromium air emission limits (as defined in 40 CFR Part 63.347(h)(2)), then semiannual reports shall be submitted to:

Indiana Department of Environmental Management  
Air Compliance Branch, Office of Air Quality  
Chromium Electroplating  
100 North Senate Avenue, P.O. Box 6015  
Indianapolis, Indiana 46206
  - (B) The chromium electroplating operations shall be subject to the record keeping and reporting requirement as indicated in the chromium electroplating NESHAP.

### **State Rule Applicability - Individual Facilities**

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

This hard chromium electroplating tank is subject to the requirements of 326 IAC 20-8-1. This rule incorporates by reference 40 CFR 63, Subpart N. Therefore, complying with 40 CFR 63, Subpart N, will satisfy the requirements of this rule.

### **Compliance Requirements**

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

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

The compliance monitoring requirements applicable to this source are as follows:

The one (1) hard chromium electroplating tank has applicable compliance monitoring conditions as specified below:

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

These monitoring conditions are necessary because the packed bed scrubber in conjunction with the composite mesh pad system must operate properly to ensure compliance with 326 IAC 20-8-1 (Hard and Decorative Chromium Electroplating and Chromium Anodizing Tanks), 40 CFR Part 63, Subpart N, and 326 IAC 2-8 (MSOP).

## Proposed Changes

The permit language is changed to read as follows (deleted language appears as ~~strikeouts~~, new language appears in bold):

### A.2 Emissions units and Pollution Control Equipment Summary

---

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

- (a) One (1) hard chrome plating tank, identified as Tank B, constructed prior to December 16, 1993 and reconstructed as preventive maintenance in 1999, using a hexavalent chromium bath and having a rectifier capacity of 15,000 amps and a maximum cumulative rectifier capacity of 88,200,000 amp-hours, equipped with an evaporator/cooler and a packed bed/ composite mesh pad scrubber as control, and exhausting to stack B.
- (b) One (1) hard chrome plating tank, identified as Tank C/D, constructed **in 2001** ~~prior to December 16, 1993~~, using a hexavalent chromium bath and having a rectifier capacity of 30,000 amps and a maximum cumulative rectifier capacity of 176,400,000 amp-hours, equipped with an evaporator/cooler and a packed bed/ composite mesh pad scrubber as control, and exhausting to stack C/D.
- (c) Two (2) wash tanks, identified as Wash Tank B and Wash Tank C/D, using 250 pounds per hour of water and 5 pounds per hour of soap, constructed prior to December 16, 1993.
- (d) Two (2) spent wash water holding tanks, identified as Nos. 1 and 2, with associated atmospheric evaporators, exhausting to stacks WR#1 and WR#2.
- (e) Three (3) hot water boilers, constructed in 1984, fired by natural gas, with associated heat exchangers, exhausting to stacks B1, B2 and B3, capacity: 0.413 million British thermal units per hour, each.
- (f) One (1) forced air furnace, identified as 2FF, maximum heat input capacity: 0.117 million British thermal units per hour.
- (g) One (1) forced air furnace, identified as CRF, maximum heat input capacity: 0.075 million British thermal units per hour.
- (h) One (1) forced air furnace, identified as LRF, maximum heat input capacity: 0.084 million British thermal units per hour.
- (i) One (1) forced air furnace, identified as OF, maximum heat input capacity: 0.054 million British thermal units per hour.
- (j) One (1) make-up air heater, identified as Rapid, maximum heat input capacity: 1.75 million British thermal units per hour.
- (k) One (1) make-up air heater, identified as Thermo cycler, maximum heat input capacity: 0.4 million British thermal units per hour.
- (l) One (1) hot water heater, identified as LRWH, maximum heat input capacity: 0.04 million British thermal units per hour.
- (m) One (1) hot water heater, identified as CRWH, maximum heat input capacity: 0.04 million

British thermal units per hour.

- (n) Two (2) EDT surface machining machines equipped with torit particulate air filters, one exhausting to stack TF and one exhausting inside the building, capacity: 40,000 pounds per hour, total.
- (o) One (1) wet finishing surface grinder, capacity: 20,000 pounds per hour.

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

- (a) The emission limitations in this condition apply only during tank operation, and also apply during periods of startup and shutdown as these are routine occurrences for tanks subject to 326 IAC 20-8-1. The emission limitations do not apply during times of malfunction.
- (b) The hard chromium electroplating tanks, identified as B ~~and C/D~~ above, ~~are~~ **is** considered a large, existing hard chromium electroplating operation **and the hard chromium electroplating tank, identified as C/D above, is considered a large, new hard chromium electroplating operation.** During tank operation, the Permittee shall control chromium emissions discharged to the atmosphere from the tanks by not allowing the concentration of total chromium in the exhaust gas stream discharged to the atmosphere to exceed 0.015 milligrams of total chromium per dry standard cubic meter (mg/dscm)[ $6.6 \times 10^{-6}$  gr/dscf].

D.1.7 Monitoring to Demonstrate Continuous Compliance [40 CFR 63.343 (c)(1)]

- (a) Performance tests demonstrating initial compliance for tank B were performed on January 6, 1997 and January 7, 1997.

During the initial performance tests, it was determined that the average pressure drop across the system was 1.66 inches of water and the average outlet chromium concentration is 0.0035 mg/dscm.

- (b) ~~Performance tests demonstrating initial compliance for tank C/D were performed on December 18, 1996 and December 19, 1996.~~ **The Permittee is required to conduct an initial performance test within 180 days after startup of tank C/D using the procedures and methods in 40 CFR 63.344 and 40 CFR 63.7 and in accordance with Section C - Performance Testing.**

~~During the initial performance tests, it was determined that the average pressure drop across the system was 1.84 inches of water and the average outlet chromium concentration is 0.0014 mg/dscm.~~

- (c) The Permittee is not required to test **tank B** ~~these facilities~~ by this permit. However, IDEM may require compliance testing at any specific time when necessary to determine if the tanks are in compliance. If testing is required by the IDEM, compliance with the limits specified in Condition D.1.3 shall be determined by a performance test conducted in accordance with the provisions of 40 CFR 63.344 and Section C - Performance Testing.
- (d) **Any change, modification, or reconstruction of the tanks (B and C/D) or the add-on control devices (evaporator/cooler and a packed bed/ composite mesh pad scrubber) or monitoring equipment may require additional performance testing conducted in accordance with 40 CFR 63.344 and Section C - Performance Testing.**

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

During the initial performance test and pursuant to 40 CFR 63.343(c)(3) and 63.343(c)(1)(i), when using a packed bed scrubber in conjunction with a composite mesh-pad system to

comply with the limit specified in Condition D.1.3, the Permittee shall determine the outlet chromium concentration using the test methods in 40 CFR 63.344(c) and shall establish as a site-specific operating parameter the pressure drop across the system, setting the value that corresponds to compliance with the applicable emission limitation using the procedures in 40 CFR 63.344(d)(5). The Permittee may conduct multiple performance tests to establish a range of compliant pressure drop values, or may set as the compliant value the average pressure drop measured over the three test runs of one performance test, and accept  $\pm 1$  inch of water column from this value as the compliant range.

D.1.1011 Reporting Requirements [326 IAC 3-6-4(b)][40 CFR 63.344(a), 63.345 & 63.347]

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

(a) Notifications:

(1) Initial Notifications

**(A)** The Permittee shall notify IDEM, ~~OM~~ **OAQ** in writing that the source is subject to 40 CFR Part 63, Subpart N. The notification shall be submitted no later than one hundred eighty (180) days after the compliance date and shall contain the information listed in 40 CFR 63.347(c)(1).

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

**(i)** A notification of the actual date when reconstruction of tank C/D commenced shall be submitted no later than thirty (30) days after such date(s).

**(ii)** A notification of the actual date of startup of the reconstructed tank C/D shall be submitted within thirty (30) days after such date.

(2) Notification of Performance Test

The Permittee shall notify IDEM, ~~OM~~ **OAQ** in writing of their intention to conduct a performance test at least sixty (60) days before the test is scheduled to begin.

**(A)** Pursuant to Section C - Performance Testing, a test protocol shall be submitted no later than thirty-five (35) days prior to the intended test date.

**(B)** In the event the Permittee is unable to conduct the performance test as scheduled, pursuant to 40 CFR 63.7(b)(2) the Permittee shall notify IDEM, ~~OM~~ **OAQ** within five (5) days prior to the scheduled performance test date and specify the date when the performance test is rescheduled. Pursuant to Section C - Performance Testing, the rescheduled performance test date shall be no sooner than fourteen (14) days after IDEM, ~~OM~~ **OAQ** is notified in writing of the need to reschedule.

~~(2)~~**(3)** A Notification of Compliance Status (NCS) is required each time that the facility becomes subject to the requirements of 40 CFR 63.347(e)(2).

- (A) The NCS shall be submitted to IDEM, ~~ΘAM~~ **OAQ**, and shall list, for each tank, the information identified in 40 CFR 63.347(e)(2).
- (B) The NCS for tanks B and C/D shall be submitted to IDEM, ~~ΘAM~~ **OAQ** immediately.
- (C) The NCS for the reconstructed tank C/D shall be submitted to IDEM, ~~OAQ~~ **OAQ** no later than forty-five (45) days following completion of the compliance demonstration pursuant to Section C - Performance Testing.

~~(3)~~**(4)** Notification of Construction or Reconstruction

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

- (A) The NCR shall contain the information identified in 40 CFR 63.345(b)(2) and (3).
- (B) A change, modification, or reconstruction of this facility includes any change in the air pollution control techniques, the addition of add-on control devices, or the construction of duct work for the purpose of controlling both existing tanks and non-affected facilities by a common control technique or device.
- (C) A complete application to construct new chromium electroplating or chromium anodizing tanks serves as this notification. Likewise, the complete application to modify or reconstruct tanks B and C/D serves as this notification.
- (D) Pursuant to 326 IAC 2-1.1-2(a), permission must be received from IDEM, ~~ΘAM~~ **OAQ** before construction, modification, or reconstruction may commence.

(b) Performance Test Results

The Permittee shall document results from any future performance tests in a complete test report that contains the information required in 40 CFR 344(a).

The Permittee shall submit reports of performance test results as part of the Notification of Compliance Status, described in 40 CFR 63.347(e), no later than forty-five (45) days following the completion of the performance test.

(c) Ongoing Compliance Status Report

The Permittee shall prepare summary reports to document the ongoing compliance status of tanks B and C/D using the Ongoing Compliance Status Report form provided with this permit. This report shall contain the information specified in 40 CFR 63.347(g)(3).

Because tanks B and C/D are located at a site that is an area source of hazardous air pollutants (HAPs), the Ongoing Compliance Status Report shall be retained on site and made available to IDEM, ~~ΘAM~~ **OAQ** upon request.

- (1) The Ongoing Compliance Status Report shall be completed according to the following schedule except as provided in paragraphs (c)(2).
  - (A) The first report shall cover the period from the start-up date of the emissions units to December 31 of the year in which the emissions units begin operation.
  - (B) Following the first year of reporting, the report shall be completed on a calendar year basis with the reporting period covering from July 1 to December 31.
- (2) If ~~either~~ **both** of the following conditions are met, semiannual reports shall be prepared and submitted to IDEM, ~~OAM~~ **OAQ**:
  - (A) The total duration of excess emissions (as indicated by the monitoring data collected by the Permittee in accordance with 40 CFR 63.343(c)) is one percent (1%) or greater of the total operating time as defined in Condition D.1.8(b) for the reporting period; ~~or~~ **and**
  - (B) The total duration of malfunctions of the add-on air pollution control device and monitoring equipment is five percent (5%) or greater of the total operating time as defined in Condition D.1.8(b).

Once the Permittee reports an exceedance as defined above, Ongoing Compliance Status Reports shall be submitted semiannually until a request to reduce reporting frequency in accordance with 40 CFR 63.347(g)(2) is approved.
- (3) IDEM, ~~OAM~~ **OAQ** may determine on a case-by-case basis that the summary report shall be completed more frequently and submitted, or that the annual report shall be submitted instead of being retained on site, if these measures are necessary to accurately assess the compliance status of the source.

On January 1, 2001, the name of the Office of Air Management (OAM) was changed to the Office of Air Quality (OAQ). All references to the Office of Air Management or OAM in the permit have been changed to Office of Air Quality or OAQ.

## Conclusion

The construction of this proposed revision shall be subject to the conditions of the attached proposed MSOP Minor Permit Revision No. 127-14226-00093.