

**MINOR SOURCE OPERATING PERMIT**

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

**Big R Plating & Polishing, Inc.  
3525 1/2 E. Washington St.  
Indianapolis, Indiana 46201**

(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 097-12534-00392	
Issued by: Original Signed by John B. Chaez	Issuance Date: 03-17-2003
John B. Chavez, Administrator Indianapolis Office of Environmental Services	Expiration Date: 03-16-2008

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## SECTION A

## SOURCE SUMMARY

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

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

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The Permittee owns and operates a stationary decorative chromium **electroplating** operation.

Authorized Individual: Rufus Barger, owner  
Source Address: 3525 ½ E. Washington Street, Indianapolis, Indiana, 46201  
Mailing Address: 3525 ½ E. Washington Street, Indianapolis, Indiana, 46201  
Phone Number: (317) 353-1250  
SIC Code: 3471  
County Location: Marion  
County Status: Attainment for all criteria pollutants  
Source Status: Minor Source Operating Permit  
Minor Source, under PSD Rules

### 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) decorative chromium electroplating operation consisting of one (1) decorative chromium electroplating tank, identified as DC-1, using a hexavalent chromium bath with maximum rectifier capacity of 1,500 amps and a maximum cumulative rectifier capacity of 8,820,000 amp-hours, with wetting agent CR1700 fume suppressant as chromium control, constructed in August, 1992;
- (b) One (1) shot blast operation with an internal nozzle diameter of 1/4 inches, using a fabric filter as particulate control, with a maximum sand flow rate of 675.0 pounds per hour, identified as Shot Blast #1.

## **SECTION B GENERAL CONDITIONS**

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

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

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

### **B.2 Definitions**

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

### **B.3 Effective Date of the Permit [IC 13-15-5-3]**

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

### **B.4 Permit Term and Renewal [326 IAC 2-6.1-7(a)][326 IAC 2-1.1-9.5]**

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

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

### **B.5 Modification to Permit [326 IAC 2]**

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

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

- (a) Annual notification shall be submitted to the IDEM, Office of Air Quality (OAQ) and Indianapolis Office of Environmental Services (OES) stating whether or not the source is in operation and in compliance with the terms and conditions contained in this permit.
- (b) Noncompliance with any condition must be specifically identified. If there are any permit conditions or requirements for which the source is not in compliance at any time during the year, the Permittee must provide a narrative description of how the source did or will achieve compliance and the date compliance was, or will be, achieved. The notification must be signed by an authorized individual.
- (c) The first annual notification shall cover the time period from the issuance date of this permit to December 31 of the year in which the permit is issued, subsequent annual notifications shall cover the time period from January 1 to December 31 of the previous year in the format attached to:

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

and

Indianapolis Office of Environmental Services  
Air Compliance  
2700 South Belmont Avenue

Indianapolis, Indiana 46221

The annual notifications shall be submitted no later than 30 days after the end of the previous year.

- (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.

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

- (a) If required by specific condition(s) in Section D of this permit, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMPs) within ninety (90) days 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; and
  - (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

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

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

and

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

The PMP extension notification does not require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (b) The Permittee shall implement the PMPs as necessary to ensure that failure to implement a PMP does not cause or contribute to a violation of any limitation on emissions or potential to emit.
- (c) A copy of the PMPs shall be submitted to IDEM, OAQ, upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ, may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or contributes to any violation. The PMP does not require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (d) Records of preventive maintenance shall be retained for a period of at least five (5) years. These records shall be kept at the source location for a minimum of three (3) years. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.

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

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- (a) Permit revisions are governed by the requirements of 326 IAC 2-6.1-6.
- (b) Any application requesting an amendment or modification of this permit shall be submitted to:
- Indianapolis Office of Environmental Services  
Air Permits  
2700 South Belmont Avenue  
Indianapolis, Indiana 46221
- Any such application shall be certified by an “authorized individual” as defined by 326 IAC 2-1.1-1.
- (c) The Permittee shall notify the OAQ within thirty (30) calendar days of implementing a notice-only change. [326 IAC 2-6.1-6(d)]

**B.9 Inspection and Entry [326 IAC 2-5.1-3(e)(4)(B)] [326 IAC 2-6.1-5(a)(4)]**

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

- (a) Enter upon the Permittee's premises where a 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.

**B.10 Transfer of Ownership or Operation [326 IAC 2-6.1-6(d)(3)]**

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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 OES within thirty (30) days of the change.
- (b) The written notification shall be sufficient to transfer the permit to the new owner by a notice-only change pursuant to 326 IAC 2-6.1-6(d)(3).
- (c) IDEM, OAQ, and OES shall issue a revised permit.

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

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

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



## SECTION C

## SOURCE OPERATION CONDITIONS

Entire Source
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C.1 Particulate Emission Limitations For Processes with Process Weight Rates Less Than One Hundred (100) pounds per hour [40 CFR 52 Subpart P] [326 IAC 6-3-2]

- (a) Pursuant to 40 CFR 52 Subpart P, the allowable particulate matter emissions rate from any process not already regulated by 326 IAC 6-1 or any New Source Performance Standard, and which has a maximum process weight rate less than 100 pounds per hour shall not exceed 0.551 pounds per hour.
- (b) Pursuant to 326 IAC 6-3-2(e)(2), the allowable particulate emissions rate from any process not exempt under 326 IAC 6-3-1(b) or (c) which has a maximum process weight rate less than 100 pounds per hour and the methods in 326 IAC 6-3-2(b) through (d) do not apply shall not exceed 0.551 pounds per hour.

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

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

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

C.3 Opacity [326 IAC 5-1]

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

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

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

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

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

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

asbestos is present.

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

All required notifications shall be submitted to:

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

and

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

The notice shall include a signed certification from the owner or operator that the information provided in this notification is correct and that only Indiana licensed workers and project supervisors will be used to implement the asbestos removal project. The notifications do not require a certification by an "authorized individual" as defined by 326 IAC 2-1.1-1.

- (e) **Procedures for Asbestos Emission Control**  
The Permittee shall comply with the applicable emission control procedures in 326 IAC 14-10-4 and 40 CFR 61.145(c). Per 326 IAC 14-10-1, emission control requirements are applicable for any removal or disturbance of RACM greater than three (3) linear feet on pipes or three (3) square feet on any other facility components or a total of at least 0.75 cubic feet on all facility components.
- (f) **Indiana Accredited Asbestos Inspector**  
The Permittee shall comply with 326 IAC 14-10-1(a) that requires the owner or operator, prior to a renovation/demolition, to use an Indiana Accredited Asbestos Inspector to thoroughly inspect the affected portion of the facility for the presence of asbestos. The requirement that the inspector be accredited, pursuant to the provisions of 40 CFR 61, Subpart M, is federally enforceable.

## Testing Requirements

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

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

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

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

and

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

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

- (b) The Permittee shall notify the IDEM, OAQ and OES of the actual test date at least fourteen (14) days prior to the actual test date.
- (c) Pursuant to 326 IAC 3-6-4(b), all test reports must be received by IDEM, OAQ and OES no later than forty-five (45) days after the completion of the testing. An extension may be granted by the IDEM, OAQ and OES, if the source submits to IDEM, OAQ and OES a reasonable written explanation no later than five (5) days prior to the end of the initial forty-five (45) day period.

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

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

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

## Compliance Monitoring Requirements

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

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

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

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

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

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- (a) Whenever a condition in this permit requires the measurement of total static pressure drop across any part of the unit or its control device, the gauge employed shall have a scale such that the expected normal reading shall be no less than twenty percent (20%) of full scale and be accurate within plus or minus two percent ( $\pm 2\%$ ) of full scale reading unless otherwise specified in this permit.
  - (b) Whenever a condition in this permit requires the measurement of a temperature or hoist speed, the instrument employed shall have a scale such that the expected normal reading shall be no less than twenty percent (20%) of full scale and be accurate within plus or minus two percent ( $\pm 2\%$ ) of full scale reading unless otherwise specified in this permit.
  - (c) The Permittee may request the IDEM, OAQ and OES approve the use of a pressure gauge or other instrument that does not meet the above specifications provided the Permittee can demonstrate an alternative pressure gauge or other instrument specification will adequately ensure compliance with permit conditions requiring the measurement of pressure drop or other parameters.

**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 response actions. The Permittee shall submit a description of these response actions to IDEM, OAQ and OES, within thirty (30) days of receipt of the test results. The Permittee shall take appropriate action to minimize excess emissions from the affected emissions unit while the response actions are being implemented.
- (b) A retest to demonstrate compliance shall be performed within one hundred twenty (120) days of receipt of the original test results. Should the Permittee demonstrate to IDEM, OAQ and OES that retesting in one-hundred and twenty (120) days is not practicable, IDEM, OAQ may extend the retesting deadline.
- (c) IDEM, OAQ and OES reserve the authority to take any actions allowed under law in response to noncompliant stack tests.

The documents submitted pursuant to this condition do require the certification by an "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 IDEM, OAQ and OES or appointed representative upon request.
- (b) When a malfunction of any facility or emission control equipment occurs which lasts more than one (1) hour, said condition shall be reported to OAQ and OES using the Malfunction Report Forms (2 pages). Notification shall be made by telephone or facsimile, as soon as practicable, but in no event later than four (4) daytime business hours after the beginning of said occurrence.
- (c) Failure to report a malfunction of any emission control equipment shall constitute a violation of 326 IAC 1-6, and any other applicable rules. Information of the scope and expected duration of the malfunction shall be provided, including the items specified in 326 IAC 1-6-2(a) (1) through (6).

- (d) Malfunction is defined as any sudden, unavoidable failure of any air pollution control equipment, process, or combustion or process equipment to operate in a normal and usual manner. [326 IAC 1-2-39]

C.13 General Record Keeping Requirements [326 IAC 2-6.1-2-5]

- (a) Records of all required data, reports 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. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the IDEM Commissioner and/or OES Administrator make a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner and/or Administrator within a reasonable time.
- (b) Unless otherwise specified in this permit, all record keeping requirements not already legally required shall be implemented when operation begins.

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

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

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

and

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

- (b) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, and OES on or before the date it is due.
- (c) Unless otherwise specified in this permit, any report required in Section D of this permit shall be submitted within thirty (30) days of the end of the reporting period. The reports do not require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (d) The first report shall cover the period commencing on the date of issuance of this permit and ending on the last day of the reporting period. Reporting periods are based on calendar years.

## SECTION D.1 FACILITY OPERATION CONDITIONS

### Emissions Unit Description:

- (a) One (1) decorative chromium electroplating operation consisting of one (1) decorative chromium tank, identified as DC-1, using a hexavalent chromium bath with maximum rectifier capacity of 1,500 amps and a maximum cumulative rectifier capacity of 8,820,000 amp-hours, with wetting agent CR1700 fume suppressant as chromium control, constructed in August, 1992.

(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 by reference as 326 IAC 20-1-1, apply to the facility described in this section except when otherwise specified in 40 CFR Part 63, Subpart N. The Permittee shall comply with the requirements of this condition on and after the compliance date for the Tank DC-1.

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

The provisions of 40 CFR 63, Subpart N - National Emission Standards for Chromium Emissions From Hard and Decorative Chromium Electroplating and Chromium Anodizing Tanks, which are incorporated by reference as 326 IAC 20-8-1, apply to the Tank DC-1. The Permittee shall comply with the requirements of this condition on and after the compliance date for the tank.

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

- (a) The emission limitations in this condition apply only during tank operation, and also apply during periods of startup and shutdown as these are routine occurrences for tanks subject to 326 IAC 20-8-1. The emission limitations do not apply during periods of malfunction.
- (b) During tank operation, the Permittee shall control chromium emissions discharged to the atmosphere from the Tank DC-1 by using a chemical fume suppressant containing a wetting agent and not allowing the surface tension of the electroplating baths contained within the tank to exceed forty-five (45) dynes per centimeter (dynes/cm) ( $3.1 \times 10^{-3}$  pound-force per foot [lbf/ft]) at any time during operation of the tank.

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

The following work practice standards apply to the Tank DC-1:

- (a) At all times, including periods of startup, shutdown, malfunction and excess emissions, the Permittee shall operate and maintain the Tank DC-1, wetting agent fume suppressant, and monitoring equipment, in a manner consistent with good air pollution control practices, consistent with the Operation and Maintenance Plan (OMP) required by Condition D.1.6.
- (b) Malfunctions 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, and OES which may include, but is not limited to, monitoring results; review of the OMP, procedures, and records; and inspection of the source.

- (e) Based on the results of a determination made under paragraph (d) of this condition, IDEM, OAQ and OES may require that the Permittee make changes to the OMP required by Condition D.1.6. Revisions may be required if IDEM, OAQ and OES finds that the plan:
- (1) Does not address a malfunction or period of excess emissions that has occurred;
  - (2) Fails to provide for the operation of the Tank DC-1, wetting fume suppressant, and process monitoring equipment during a malfunction or period of excess emissions in a manner consistent with good air pollution control practices; or
  - (3) Does not provide adequate procedures for correcting malfunctioning process equipment, air pollution control equipment (wetting agent fume suppressant), or monitoring equipment or other causes of excess emissions 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 Condition B.7 Preventive Maintenance Plan of this permit, is required for the Tank DC-1.

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

- (a) The Permittee shall prepare an Operation and Maintenance Plan (OMP) to be implemented no later than the startup date of the Tank DC-1. The OMP shall specify the operation and maintenance criteria for The Tank DC-1, wetting agent fume suppressant, and monitoring equipment and shall include the following elements:
- (1) Manufacturer's recommendations for maintenance of the monitoring equipment used to measure surface tension;
  - (2) A standardized checklist to document the operation and maintenance criteria for the Tank DC-1, the wetting agent fume suppressant, and the monitoring equipment.
  - (3) Procedures to be followed to ensure that equipment or process malfunctions due to poor maintenance or other preventable conditions or periods of excess emissions as indicated by monitoring data do not occur.
  - (4) A systematic procedure for identifying malfunctions and periods of excess emissions of the Tank DC-1, wetting agent fume suppressant 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, the OMP, provided the alternative plans meet the above listed criteria in Condition D.1.6(a).
- (c) If the OMP fails to address or inadequately addresses an event that meets the characteristics of a malfunction or period of excess emissions at the time the plan is initially developed, the Permittee shall revise the OMP within forty-five (45) days after such an event occurs. The revised plan shall include procedures for operating and maintaining the Tank DC-1, the wetting agent fume suppressant, and the monitoring equipment, during similar malfunction or period of excess emissions events, and a program for corrective action for such events.

- (d) If actions taken by the Permittee during periods of malfunction or period of excess emissions are inconsistent with the procedures specified in the OMP, the Permittee shall record the actions taken for that event and shall report by phone such actions within two (2) working days after commencing actions inconsistent with the plan. This report shall be followed by a letter within seven (7) working days after the end of the event, unless the Permittee makes alternative reporting arrangements, in advance, with IDEM, OAQ, and OES.
- (e) The Permittee shall keep the written OMP on record after it is developed to be made available, upon request, by IDEM, OAQ, and OES for the life of the Tank DC-1 or until the tank is no longer subject to the provisions of 40 CFR 63.340. In addition, if the OMP is revised, the Permittee shall keep previous versions of the OMPs on record to be made available for inspection, upon request by IDEM, OAQ, and OES for a period of five (5) years after each revision to the plan.

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

#### **D.1.7 Performance Testing [326 IAC 2-1.1-11] [326 IAC 20-8-1]**

- (a) The Permittee is not required to further test the Tank DC-1 by this permit. However, the IDEM and OES may require testing when necessary to determine if the tank is in compliance. If testing is required by the IDEM and OES, compliance with the limit specified in Condition D.1.3 shall be determined by a performance test conducted in accordance with 40 CFR 63.344 and Section C.6 - Performance Testing.
- (b) Any change, modification, or reconstruction of the Tank DC-1, the wetting agent fume suppressant, or monitoring equipment may require additional performance testing conducted in accordance with 40 CFR 63.344 and Section C.6 - Performance Testing.

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

In lieu of establishing the maximum surface tension during a performance test, the Permittee shall accept 45 dynes/cm as the maximum surface tension value that corresponds to compliance with the applicable emission limitation. The Permittee is exempt from conducting a performance test only if the criteria of 40 CFR 63.343(b)(2) are met.

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

#### **D.1.9 Monitoring to Demonstrate Continuous Compliance [326 IAC 2-6.1-5(a)(2)] [326 IAC 20-8-1]**

- (a) Pursuant to 40 CFR 63.343(c)(5)(ii) and (iii), when using a wetting agent in the electroplating bath to comply with the limit specified in Condition D.1.3, the Permittee shall monitor the surface tension of the electroplating baths. Operation of the Tank DC-1 at a surface tension greater than 45 dynes per centimeter shall constitute noncompliance with the standards.
  - (1) The Permittee shall monitor the surface tension of the electroplating bath during tank operation according to the following schedule:
    - (A) The surface tension shall be measured once every 4 hours during operation of the tank with a stalagmometer or a tensiometer as specified in Method 306B, appendix A of this part.
    - (B) The time between monitoring can be increased if there have been no exceedances. The surface tension shall be measured once every 4 hours of tank operation for the first 40 hours of tank operation after the compliance date. Once there are no exceedances during 40 hours of tank operation, surface tension measurement may be conducted once every 8 hours of tank operation. Once there are no exceedances during 40 hours of tank operation, surface tension measurement may be conducted once

every 40 hours of tank operation on an ongoing basis, until an exceedance occurs. The minimum frequency of monitoring allowed by this subpart is once every 40 hours of tank operation.

- (C) Once an exceedance occurs as indicated through surface tension monitoring, the original monitoring schedule of once every 4 hours must be resumed. A subsequent decrease in frequency shall follow the schedule laid out in paragraph (B) above. For example, if a Permittee had been monitoring a tank once every 40 hours and an exceedance occurs, subsequent monitoring would take place once every 4 hours of tank operation. Once an exceedance does not occur for 40 hours of tank operation, monitoring can occur once every 8 hours of tank operation. Once an exceedance does not occur for 40 hours of tank operation on this schedule, monitoring can occur once every 40 hours of tank operation.
- (2) Once a bath solution is drained from the Tank DC-1 and a new solution added, the original monitoring schedule of once every 4 hours must be resumed, with a decrease in monitoring frequency allowed following the procedures in paragraphs (B) and (C) above.
- (b) Tank operation or operating time is defined as that time when a part is in the tank and the rectifier is turned on. If the amount of time that no part is in the tank is fifteen minutes or longer, that time is not considered operating time. Likewise, if the amount of time between placing parts in the tank (i.e., when no part is in the tank) is less than fifteen minutes, that time between plating the two parts may be considered operating time.

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

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

The Permittee shall maintain records to document compliance with Conditions D.1.3, D.1.4 and D.1.6. These records shall be maintained in accordance with Section C.14 - General Record Keeping Requirements of this permit and include a minimum of the following:

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

- (e) Records of actions taken during periods of malfunction or excess emissions when such actions are inconsistent with the OMP.
- (f) Other records, which may take the form of checklists, necessary to demonstrate consistency with the provisions of the OMP.
- (g) Test reports documenting results of all performance tests.
- (h) All measurements as may be necessary to determine the conditions of performance tests, including measurements necessary to determine compliance.
- (i) Records of monitoring data required by 40 CFR 63.343(c) that are used to demonstrate compliance with the standard including the date and time the data are collected.
- (j) The total process operating time, as defined in Condition D.1.9(b), of each tank, during the reporting period.
- (k) Records of the date and time that fume suppressants were added to the electroplating bath, and the amount and type of fume suppressants added.
- (l) All documentation supporting the notifications and reports required by 40 CFR 63.9 and 63.10 (Subpart A, General Provisions) and by Condition D.1.10.

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

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

(a) Notifications:

- (1) Initial Notifications  
The Permittee shall notify IDEM, OAQ and OES 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 Part 63 Subpart N.
  - (A) The NCS shall be submitted to IDEM, OAQ, and OES and shall list, for each tank, the information identified in 40 CFR 63.347(e)(2).
  - (B) The NCS for the Tank DC-1 shall be submitted to IDEM, OAQ, and OES 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 and OES. In addition, the Permittee may not change, modify, or reconstruct the Tank DC-1 without submitting a Notification of Construction or Reconstruction (NCR) to IDEM, OAQ or OES.
  - (A) The NCR shall contain the information identified in 40 CFR 63.345(b) (2) and (3).
  - (B) A change, modification, or reconstruction of this facility includes any

change in the air pollution control techniques, the addition of add-on control devices, or the construction of duct work for the purpose of controlling both the existing tank 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 the Tank DC-1 serves as this notification.
- (D) Pursuant to 326 IAC 2-1.1-2(a), permission must be received from IDEM, OAQ and OES before construction, modification, or reconstruction may commence.

(b) Performance Test Results

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

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

(c) Ongoing Compliance Status Report

The Permittee shall prepare summary reports to document the ongoing compliance status of the Tank DC-1 using the Ongoing Compliance Status Report form provided with this permit. This report shall contain the information specified in 40 CFR 63.347(g)(3).

Because the Tank DC-1 is located at a site that is an area source of hazardous air pollutants (HAPs), the Ongoing Compliance Status Report shall be prepared as provided in paragraph (c)(1), retained on site and made available to IDEM, OAQ and OES upon request.

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

- (A) The first report shall cover the period from the issuance date of their permit to December 31 of the year in which the permit is issued, and shall be completed no later than 30 days after the end of a reporting period.
- (B) Following the first year of reporting, the report shall be prepared on a calendar year basis with the reporting period covering from January 1 to December 31, and shall be completed no later than 30 days after the end of a reporting period.

- (2) If either of the following conditions are met, semiannual reports shall be prepared and submitted to IDEM, OAQ and OES:

- (A) The total duration of excess emissions (as indicated by the monitoring data collected by the Permittee in accordance with 40 CFR 63.343(c)) is one percent (1%) or greater of the total operating time as defined in Condition D.1.9(b) for the reporting period; or
- (B) The total duration of malfunctions of the add-on air pollution control device and monitoring equipment is five percent (5%) or greater of the total operating time as defined in Condition D.1.9(b).

Once the Permittee reports an exceedance as defined above, Ongoing Compliance Status Reports shall be submitted semiannually until a request to reduce reporting

frequency in accordance with 40 CFR 63.347(g)(2) is approved.

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

## Section D.2 Emission Unit Operation Condition

### Emissions Unit Description:

- (b) One (1) shot blast operation with an internal nozzle diameter of 1/4 inches, using a fabric filter as particulate control, with a maximum sand flow rate of 675.0 pounds per hour, identified as Shot Blast #1.

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

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

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

Pursuant to 326 IAC 6-3-2 (e) (Particulate Matter Emission Limitations), the PM emissions from the Shot Blast #1 shall not exceed the emission rate of 3.15 pounds per hour, based on a maximum process weight of 675 pounds of sand per hour.

Interpolation and extrapolation of the data for process weight up to sixty thousand pounds per hour shall be accomplished by use of the equation:

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

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

- (a) The Fabric Filter shall be in operation at all times when the Shot Blast #1 is in operation.

### Compliance Determination Requirements

#### D.2.2 Testing Requirements [326 IAC 2-1.1-11]

The Permittee is not required to test this emissions unit by this permit. However, IDEM and/or OES may require compliance testing when necessary to determine if the emissions unit is in compliance. If testing is required by IDEM or OES, compliance with the particulate limit specified in Condition D.2.1 shall be determined by a performance test conducted in accordance with Section C.8 Performance Testing.

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

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

Source Name: Big R Plating & Polishing, Inc.  
 Source Address: 3525 ½ E. Washington Street, Indianapolis, IN. 46201  
 Mailing Address: 3525 ½ E. Washington Street, Indianapolis, IN. 46201  
 MSOP No.: 097-12534-00392

Tank ID #: Tank DC-1  
 Type of process: Decorative  
 Monitoring Parameter: Surface tension of the electroplating bath  
 Parameter Value: 45 dynes per centimeter  
 Limits: Total chromium concentration may not exceed 0.01 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 IDEM, OAQ Compliance Branch.

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

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

<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**

- |          |  |
|----------|--|
| <b>9</b> | 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. |
| <b>9</b> | 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.

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

**MINOR SOURCE OPERATING PERMIT  
SEMI-ANNUAL COMPLIANCE MONITORING REPORT**

Source Name: **Big R Plating & Polishing, Inc.**  
Source Address: 3525 ½ E. Washington St. Indianapolis, IN.  
Mailing Address: 3525 ½ E. Washington St. Indianapolis, IN.  
MSOP No.: 097-12534-00392

Months: \_\_\_\_\_ to \_\_\_\_\_ Year: \_\_\_\_\_

This report is an affirmation that the source has met all the compliance monitoring requirements stated in this permit. This report shall be submitted semi-annually. Any deviation from the compliance monitoring requirements and the date(s) of each deviation must be reported. Additional pages may be attached if necessary. If no deviations occurred, please specify in the box marked "No deviations occurred this reporting period".

9 NO DEVIATIONS OCCURRED THIS REPORTING PERIOD.

9 THE FOLLOWING DEVIATIONS OCCURRED THIS REPORTING PERIOD.

Compliance Monitoring Requirement (e.g. Permit Condition D.1.3)	Number of Deviations	Date of each Deviation

Form Completed By: \_\_\_\_\_

Title/Position: \_\_\_\_\_

Date: \_\_\_\_\_

Phone: \_\_\_\_\_

Attach a signed certification to complete this report.

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

**INDIANAPOLIS OFFICE OF ENVIRONMENTAL SERVICES  
AIR COMPLIANCE  
FAX NUMBER: 317-327-2274**

**MALFUNCTION REPORT**

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

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

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

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

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

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

DATE/TIME MALFUNCTION STARTED: \_\_\_\_ / \_\_\_\_ / 20 \_\_\_\_    AM / PM

ESTIMATED HOURS OF OPERATION WITH MALFUNCTION CONDITION:

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

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

ESTIMATED AMOUNT OF POLLUTANT EMITTED DURING MALFUNCTION: \_\_\_\_\_

MEASURES TAKEN TO MINIMIZE EMISSIONS: \_\_\_\_\_

**REASONS WHY FACILITY CANNOT BE SHUTDOWN DURING REPAIRS:**

CONTINUED OPERATION REQUIRED TO PROVIDE ESSENTIAL\* SERVICES: \_\_\_\_\_  
CONTINUED OPERATION NECESSARY TO PREVENT INJURY TO PERSONS: \_\_\_\_\_  
CONTINUED OPERATION NECESSARY TO PREVENT SEVERE DAMAGE TO EQUIPMENT: \_\_\_\_\_  
INTERIM CONTROL MEASURES: (IF APPLICABLE) \_\_\_\_\_

MALFUNCTION REPORTED BY: \_\_\_\_\_ TITLE: \_\_\_\_\_  
(SIGNATURE IF FAXED)

MALFUNCTION RECORDED BY: \_\_\_\_\_ DATE: \_\_\_\_\_ TIME: \_\_\_\_\_

\*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**

**AND**

**INDIANAPOLIS OFFICE OF ENVIRONMENTAL SERVICES  
AIR COMPLIANCE**

**MINOR SOURCE OPERATING PERMIT**

**ANNUAL NOTIFICATION**

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

<b>Company Name:</b>	<b>Big R Plating &amp; Polishing, Inc.</b>
<b>Address:</b>	<b>3525 ½ E. Washington Street</b>
<b>City:</b>	<b>Indianapolis</b>
<b>Phone #:</b>	<b>(317) 353-1250</b>
<b>MSOP#:</b>	<b>097-12534-00392</b>

I hereby certify that Classic Chrome Shop, is

- still in operation.
- no longer in operation.

I hereby certify that Big R Plating & Polishing, Inc. is

- in compliance with the requirements of MSOP 097-12534-00392.
- not in compliance with the requirements of MSOP 097-12534-00392.

<b>Authorized Individual (typed):</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  
and  
Indianapolis Office of Environmental Services**

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

**Source Name:** Big R Plating & Polishing, Inc.  
**Source Location:** 3525 ½ E. Washington Street, Indianapolis, IN. 46201  
**County:** Marion  
**SIC Code:** 3471  
**Operation Permit No.:** 097-12534-00392  
**Permit Reviewer:** Boris Gorlin

On February 11, 2003, the Indianapolis Office of Environmental Services (OES) had a notice published in the Indianapolis Star, Indianapolis, Indiana, stating that the Big R Plating & Polishing, Inc. had applied for a Minor Source Operating Permit to operate a decorative chromium plating process. The notice also stated that the OES proposed to issue a permit for this operation and provided information on how the public could review the proposed permit and other documentation. Finally, the notice informed interested parties that there was a period of thirty (30) days to provide comments on whether or not this permit should be issued as proposed.

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

OAQ and OES determined to make the following changes in the permit.

**Change 1:**

Condition A.1 referense to "decorative chromium plating" has been changed to "decorative chromium **electroplating**".

**Change 2:**

The time periods for the Annual Notifications were brought in accordance with the wording in Conditions D.1.11(c)(1)(A) and (B). The following changes were made to the Condition B.6(c):

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

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.....

(c) **The first annual notification shall cover the time period from the issuance date of this permit to December 31 of the year in which the permit is issued, subsequent** ~~The~~ annual notifications shall cover the time period from January 1 to December 31 of the previous year in the format attached ~~no later than March 1 of each year~~ to:

Compliance Branch, Office of Air Quality  
Indiana Department of Environmental Management  
100 North Senate Avenue, P.O. Box 6015

Indianapolis, IN 46206-6015,

and

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

**The annual notifications shall be submitted no later than 30 days after the end of the previous year.**

**Change 3:**

A Compliance Response Plan is not required in this permit. The Ongoing Compliance Monitoring Plan (for chromium electroplating) is sufficient. Therefore, Condition C.11 was deleted, the following Section C Conditions were renumbered. Corresponding changes were made in the Table of Content.

**Change 4:**

Condition D.1.10(k) is not needed (not required for decorative chromium electroplating operations). It was deleted. The following paragraphs of the Condition D.1.10 were renumbered:

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

The Permittee shall maintain records to document compliance with Conditions D.1.3, D.1.4 and D.1.6. These records shall be maintained in accordance with Section C.14 - General Record Keeping Requirements of this permit and include a minimum of the following:

.....

~~(k) Records of the actual cumulative rectifier capacity of the Tank DC-1 expended during each month of the reporting period, and the total capacity expended to date for a reporting period.~~

**(h)(k)** Records of the date and time that fume suppressants were added to the electroplating bath, and the amount and type of fume suppressants added.

**(m)(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.

**Change 5:**

The time period for when the ongoing compliance status report must be completed or submitted (when required) needs to be added. The following changes were made to the Permit Condition D.11(c):

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

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

.....

**(c)** Ongoing Compliance Status Report  
The Permittee shall prepare summary reports to document the ongoing compliance

status of the Tank DC-1 using the Ongoing Compliance Status Report form provided with this permit. This report shall contain the information specified in 40 CFR 63.347(g)(3).

Because the Tank DC-1 is located at a site that is an area source of hazardous air pollutants (HAPs), the Ongoing Compliance Status Report shall be prepared as provided in paragraph (c)(1), retained on site and made available to IDEM, OAQ and OES upon request.

- (1) The Ongoing Compliance Status Report shall be completed according to the following schedule except as provided in paragraphs (c)(2).
  - (A) The first report shall cover the period from the issuance date of their permit to December 31 of the year in which the permit is issued, **and shall be completed no later than 30 days after the end of a reporting period.**
  - (B) Following the first year of reporting, the report shall be prepared ~~completed~~ on a calendar year basis with the reporting period covering from January 1 to December 31, **and shall be completed no later than 30 days after the end of a reporting period.**

**Indiana Department of Environmental Management  
Office of Air Quality  
and  
Environmental Resources Management Division**

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

**Source Background and Description**

**Source Name:** Big R Plating & Polishing, Inc.  
**Source Location:** 3525 ½ E. Washington Street, Indianapolis, IN. 46201  
**County:** Marion  
**SIC Code:** 3471  
**Operation Permit No.:** 097-12534-00392  
**Permit Reviewer:** Boris Gorlin

The City of Indianapolis Office of Environmental Services (OES) and the Indiana Department of Environmental Management (IDEM) Office of Air Quality (OAQ) have reviewed an application from Big R Plating & Polishing, Inc., relating to the operation of a decorative chromium plating process.

**Permitted Emission Units and Pollution Control Equipment**

There are no permitted facilities operating at this source during this review process.

**Unpermitted Emission Units and Pollution Control Equipment**

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

- (a) One (1) decorative chromium electroplating operation consisting of one (1) decorative chromium tank, identified as DC-1, using a hexavalent chromium bath with maximum rectifier capacity of 1,500 amps and a maximum cumulative rectifier capacity of 8,820,000 amp-hours, with a wetting agent CR1700 fume suppressant as controls, constructed in August, 1992;
- (b) One (1) Shot Blast operation with an internal nozzle diameter of 1/4 inches, using a fabric filter as controls, with a maximum sand flow rate of 675.0 pounds per hour, identified as Shot Blast #1.

**New Emission Units and Pollution Control Equipment**

There are no new facilities proposed at this source during this review process.

**Stack Summary**

Stack ID	Operation	Height (feet)	Diameter (feet)	Flow Rate (acfm)	Temperature (°F)
N/A	N/A	N/A	N/A	N/A	N/A

**Enforcement Issue**

- (a) The applicant applied for the Minor Source Operating Permit (MSOP) after December 27, 1999. Therefore, the source is not in compliance with the compliance schedule under 326 IAC 2-6.1-3.

- (b) IDEM and OES are reviewing this matter and will take appropriate action.

### Recommendation

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

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

An application for the purposes of this review was received on July, 18, 2000.

In January, 2003, the company (formerly Classic Chrome Shop) was sold to a new owner and changed the name to Big R Plating & Polishing, Inc.

### Emission Calculations

Chromium emissions (Single HAP) from the biggest chromium electroplating source in Indiana are less than ten (10) tons per year and Big R Plating & Polishing, Inc. 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. See Appendix A (one page) of this document for detailed emissions calculations for the Shot Blast #1.

### Potential To Emit

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

Pollutant	Potential To Emit (tons/year)
PM	29.6
PM-10	29.6
SO <sub>2</sub>	0.0
VOC	0.0
CO	0.0
NO <sub>x</sub>	0.0

HAP's	Potential To Emit (tons/year)
Chromium	Less than 10

- (c) This existing source is subject to 326 IAC 20-8 but not subject to 326 IAC 2-5.5-1(b)(2) (registration) because the source uses hexavalent chromium for decorative coating instead of trivalent chromium, and the source emits less than major source levels. Therefore, the source is subject to the provisions of 326 IAC 2-6.1-3(a).
- (d) 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 particulate matter (PM) and volatile organic

compound (VOC) emissions are not counted toward determination of PSD and Emission Offset applicability.

### Actual Emissions

No previous emission data has been received from the source.

### County Attainment Status

The source is located in Marion County.

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

- (a) Volatile organic compounds (VOC) are precursors for the formation of ozone. Therefore, VOC emissions are considered when evaluating the rule applicability relating to the ozone standards. Marion County has been designated as attainment or unclassifiable for ozone. Therefore, VOC emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2 and 40 CFR 52.21.
- (b) Marion County has been classified as attainment or unclassifiable for PM10, SO<sub>2</sub>, NO<sub>x</sub>, and CO. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2 and 40 CFR 52.21.

### Source Status

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

Pollutant	Emissions (ton/yr)
PM	0.296
PM10	0.296
SO <sub>2</sub>	0.0
VOC	0.0
CO	0.0
NO <sub>x</sub>	0.0
Chromium	N/A

- (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.

### Part 70 Permit Determination

326 IAC 2-7 (Part 70 Permit Program)

This source is not subject to the Part 70 Permit requirements because:

- (a) The potential to emit (as defined in 326 IAC 2-7-1(29)) of each criteria air pollutant is less than 100 tons per year;
- (b) The potential to emit (as defined in 326 IAC 2-7-1(29)) of any single HAP is less than ten (10) tons per year and the potential to emit (as defined in 326 IAC 2-7-1(29)) of a combination HAPS is less than twenty-five (25) tons per year.

This is the first air approval issued to this source.

### **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) The chromium electroplating operations are subject to the National Emission Standards for Hazardous Air Pollutants (NESHAPs), 326 IAC 14, (40 CFR 63, Subpart N, and 326 IAC 20-1-1). Pursuant to 40 CFR 63, Subpart N, and 326 IAC 20-1-1, the chromium electroplating operations are subject to the following conditions:
  - (1) The surface tension of the chromium electroplating bath contained with the tank shall not exceed forty-five (45) dynes per centimeter at any time during the operation of the tank if a chemical fume suppressant containing a wetting agent is used to demonstrate compliance.
  - (2) Each time that surface tension monitoring exceeds forty-five (45) dynes per centimeter, the frequency of monitoring must revert back to every four (4) hours of tank operation. After forty (40) hours of monitoring tank operation every four (4) hours with no exceedances, surface tension measurement may be conducted once every eight (8) hours of tank operation. Once there have been no exceedances during forty (40) hours of tank operation, surface tension measurement may be conducted once every forty (40) hours of tank operation on an ongoing basis, until an exceedance occurs.
  - (3) An alternative emission limit of 0.01 milligram per day standard cubic meter (mg/dscm) will be applicable if the chromium electroplating bath does not meet the limit above.
  - (4) 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, OAQ and OES upon request. If there are significant exceedance of chromium air emission limits (as defined in 40 CFR Part 63.347 (h)(2)), then semiannual reports shall be submitted to:

Indiana Department of Environmental Management  
Air Compliance Branch, Office of Air Management  
Chromium Electroplating  
100 North Senate Avenue, P.O. Box 6015  
Indianapolis, Indiana 46206

and

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

- (5) The chromium electroplating operations shall be subject to the record keeping and reporting requirement as indicated in the chromium electroplating NESHAP.

### **State Rule Applicability - Entire Source**

#### 326 IAC 2-6 (Emission Reporting)

This source is located in Marion County and the potential to emit VOC and NO<sub>x</sub>, is less than ten (10) tons per year. Therefore, 326 IAC 2-6 does not apply.

#### 326 IAC 5-1 (Opacity Limitations)

This source is located in Marion County. Therefore, pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary alternative opacity limitations), opacity shall meet the following, unless otherwise stated in this permit:

- (a) Opacity shall not exceed an average of thirty percent (30%) any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-2(2).
- (b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings) as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

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

#### 326 IAC 1-6-3 (Preventive Maintenance Plan)

A Preventive Maintenance Plan (PMP) is required for the tank DC-1.

#### 326 IAC 6-1 (Nonattainment Area Limitations)

Pursuant to 326 IAC 6-1-1, this source is not subject to the requirements of 326 IAC 6-1 because it is not mentioned in 326 IAC 6-1-8.1 through 6-1-18 and the source does not have potential PM emissions of one hundred (100) tons per year or more or actual PM emissions of ten (10) tons per year or more.

#### 326 IAC 6-3-2 Particulate Matter Limitation (PM)

Pursuant to 326 IAC 6-3-2(c) (Particulate Matter Emission Limitations), the PM emissions from Shot Blast #1 shall not exceed the emission rate established as E in the following formula.

Interpolation and extrapolation of the data for the process weight up to sixty thousand pounds per hour shall be accomplished by use of the equation:

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

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

#### 326 IAC 20-1-1 (Incorporation of federal regulations)

The chromium electroplating operation, subject to 326 IAC 20-8, is required to comply with the requirements of 40 CFR 63, Subpart A, concerning general provisions for emission standards for hazardous air pollutants.

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

The chromium electroplating operation is required to comply with the requirements of 40 CFR 63, Subpart N, National Emission Standards for Chromium Emissions from Hard and Decorative Electroplating and Anodizing Tanks. as described in the "Federal Rule Applicability" section of this TSD.

**Conclusion**

The operation of this decorative chrome plating process shall be subject to the conditions of the attached proposed Minor Source Operating Permit 097-12534-00392.

**Appendix A: Emission Calculations**

**Abrasive Blasting**

**Company Name:** Big R Plating & Polishing, Inc.

**Address:** 3525.5 E. Washington St., Indpls., IN 46201

**Permit #:** MSOP 097-12534-00392

**Plt ID:** 097-00392

**Reviewer:** Boris Gorlin

**Emission Factors for Abrasives (AP-42, Table 13.2.6-1)**

<http://www.epa.gov/ttnchie1/ap42/ch13/final/c13s02-6.pdf>

Abrasive	Emission Factor, lb/1,000 lb abrasive	
	PM	PM10
Sand	27.0	13.0

PM emission factor (lb PM/ lb abrasive) for Sand from Table 1 =	0.027
PM10 emission factor (lb PM10/ lb abrasive) for Sand from Table 1 =	0.013
FR = abrasive Flow Rate (lb/hr) =	675.0
N = number of nozzles =	1

<b>Uncontrolled PM Emissions =</b>	<b>18.2 lb/hr</b>
	<b>79.8 ton/yr</b>

<b>Uncontrolled PM 10 Emissions =</b>	<b>8.8 lb/hr</b>
	<b>38.4 ton/yr</b>

Controlled Emissions (based on an estimated 99 % fabric filter efficiency, air flow 8,700 acfm, and 8760 hr/yr):

<b>Controlled PM Emissions =</b>	<b>0.182 lb/hr</b>	<b>0.002 gr/dscf</b>
	<b>0.798 ton/yr</b>	

<b>Controlled PM 10 Emissions =</b>	<b>0.088 lb/hr</b>	<b>0.001 gr/dscf</b>
	<b>0.384 ton/yr</b>	

**Process Weight Calculation [326 IAC 6-3-2(e)]**

$$E \text{ (lb/hr)} = 4.10 \times P^{0.67} \quad (\text{ton/hr}) = 4.10 \times 0.6750^{0.67} = 3.15 \text{ lb/hr}$$

**Notes:**

Emission, ton/yr = lb/hr X 8760 hr/yr X 1 ton/2000 lbs