



State of Ohio Environmental Protection Agency

**RE: FINAL PERMIT TO INSTALL  
ASHTABULA COUNTY**

**CERTIFIED MAIL**

Street Address:

122 S. Front Street

Lazarus Gov. Center TELE: (614) 644-3020 FAX: (614) 644-2329

Mailing Address:

Lazarus Gov. Center  
P.O. Box 1049

**Application No: 02-18331**

**DATE: 12/16/2003**

Lakeside Custom Plating LLC  
Dick Gifford  
1041 Golfview Dr  
Conneaut, OH 44030

Enclosed please find an Ohio EPA Permit to Install which will allow you to install the described source(s) in a manner indicated in the permit. Because this permit contains several conditions and restrictions, I urge you to read it carefully.

The Ohio EPA is urging companies to investigate pollution prevention and energy conservation. Not only will this reduce pollution and energy consumption, but it can also save you money. If you would like to learn ways you can save money while protecting the environment, please contact our Office of Pollution Prevention at (614) 644-3469.

You are hereby notified that this action by the Director is final and may be appealed to the Ohio Environmental Review Appeals Commission pursuant to Chapter 3745.04 of the Ohio Revised Code. The appeal must be in writing and set forth the action complained of and the grounds upon which the appeal is based. It must be filed within thirty (30) days after the notice of the Directors action. A copy of the appeal must be served on the Director of the Ohio Environmental Protection Agency within three (3) days of filing with the Commission. An appeal may be filed with the Environmental Review Appeals Commission at the following address:

Environmental Review Appeals Commission  
309 South Fourth Street, Room 222  
Columbus, Ohio 43215

Sincerely,

Michael W. Ahern, Supervisor  
Field Operations and Permit Section  
Division of Air Pollution Control

cc: USEPA

NEDO



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**Permit To Install  
Terms and Conditions**

**Issue Date: 12/16/2003  
Effective Date: 12/16/2003**

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**FINAL PERMIT TO INSTALL 02-18331**

Application Number: 02-18331  
APS Premise Number: 0204020451  
Permit Fee: **\$200**  
Name of Facility: Lakeside Custom Plating LLC  
Person to Contact: Dick Gifford  
Address: 1041 Golfview Dr  
Conneaut, OH 44030

Location of proposed air contaminant source(s) [emissions unit(s)]:  
**1042 Chamberlain Blvd  
Conneaut, Ohio**

Description of proposed emissions unit(s):  
**Chrome plating tanks.**

The above named entity is hereby granted a Permit to Install for the above described emissions unit(s) pursuant to Chapter 3745-31 of the Ohio Administrative Code. Issuance of this permit does not constitute expressed or implied approval or agreement that, if constructed or modified in accordance with the plans included in the application, the above described emissions unit(s) of environmental pollutants will operate in compliance with applicable State and Federal laws and regulations, and does not constitute expressed or implied assurance that if constructed or modified in accordance with those plans and specifications, the above described emissions unit(s) of pollutants will be granted the necessary permits to operate (air) or NPDES permits as applicable.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

Director

## Part I - GENERAL TERMS AND CONDITIONS

### A. Permit to Install General Terms and Conditions

#### 1. Compliance Requirements

The emissions unit(s) identified in this Permit to Install shall remain in full compliance with all applicable State laws and regulations and the terms and conditions of this permit.

#### 2. Reporting Requirements

The permittee shall submit required reports in the following manner:

- a. Reports of any required monitoring and/or recordkeeping information shall be submitted to the appropriate Ohio EPA District Office or local air agency.
- b. Except as otherwise may be provided in the terms and conditions for a specific emissions unit, quarterly written reports of (a) any deviations (excursions) from emission limitations, operational restrictions, and control device operating parameter limitations that have been detected by the testing, monitoring, and recordkeeping requirements specified in this permit, (b) the probable cause of such deviations, and (c) any corrective actions or preventive measures which have been or will be taken, shall be submitted to the appropriate Ohio EPA District Office or local air agency. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted quarterly, i.e., by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. (These quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06.)

#### 3. Records Retention Requirements

Each record of any monitoring data, testing data, and support information required pursuant to this permit shall be retained for a period of five years from the date the record was created. Support information shall include, but not be limited to, all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. Such records may be maintained in computerized form.

#### 4. Inspections and Information Requests

The Director of the Ohio EPA, or an authorized representative of the Director, may, subject to the safety requirements of the permittee and without undue delay, enter upon the premises of this source at any reasonable time for purposes of making inspections, conducting tests, examining records or reports pertaining to any emission of air contaminants, and determining compliance with any applicable State air pollution laws and regulations and the terms and conditions of this permit. The permittee shall furnish to the Director of the Ohio EPA, or an authorized

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representative of the Director, upon receipt of a written request and within a reasonable time, any information that may be requested to determine whether cause exists for modifying, reopening or revoking this permit or to determine compliance with this permit. Upon verbal or written request, the permittee shall also furnish to the Director of the Ohio EPA, or an authorized representative of the Director, copies of records required to be kept by this permit.

**5. Scheduled Maintenance/Malfunction Reporting**

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. The malfunction of any emissions units or any associated air pollution control system(s) shall be reported to the appropriate Ohio EPA District Office or local air agency in accordance with paragraph (B) of OAC rule 3745-15-06. Except as provided in that rule, any scheduled maintenance or malfunction necessitating the shutdown or bypassing of any air pollution control system(s) shall be accompanied by the shutdown of the emissions unit(s) that is (are) served by such control system(s).

**6. Permit Transfers**

Any transferee of this permit shall assume the responsibilities of the prior permit holder. The appropriate Ohio EPA District Office or local air agency must be notified in writing of any transfer of this permit.

**7. Air Pollution Nuisance**

The air contaminants emitted by the emissions units covered by this permit shall not cause a public nuisance, in violation of OAC rule 3745-15-07.

**8. Termination of Permit to Install**

This Permit to Install shall terminate within eighteen months of the effective date of the Permit to Install if the owner or operator has not undertaken a continuing program of installation or modification or has not entered into a binding contractual obligation to undertake and complete within a reasonable time a continuing program of installation or modification. This deadline may be extended by up to 12 months if application is made to the Director within a reasonable time before the termination date and the party shows good cause for any such extension.

**9. Construction of New Sources(s)**

The proposed emissions unit(s) shall be constructed in strict accordance with the plans and application submitted for this permit to the Director of the Ohio Environmental Protection Agency. There may be no deviation from the approved plans without the express, written approval of the Agency. Any deviations from the approved plans or the above conditions may lead to such sanctions

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and penalties as provided under Ohio law. Approval of these plans does not constitute an assurance that the proposed facilities will operate in compliance with all Ohio laws and regulations. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed sources cannot meet the requirements of this permit or cannot meet applicable standards.

If the construction of the proposed emissions unit(s) has already begun or has been completed prior to the date the Director of the Environmental Protection Agency approves the permit application and plans, the approval does not constitute expressed or implied assurance that the proposed facility has been constructed in accordance with the approved plans. The action of beginning and/or completing construction prior to obtaining the Director's approval constitutes a violation of OAC rule 3745-31-02. Furthermore, issuance of the Permit to Install does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. Approval of the plans in any case is not to be construed as an approval of the facility as constructed and/or completed. Moreover, issuance of the Permit to Install is not to be construed as a waiver of any rights that the Ohio Environmental Protection Agency (or other persons) may have against the applicant for starting construction prior to the effective date of the permit. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed facilities cannot meet the requirements of this permit or cannot meet applicable standards.

**10. Public Disclosure**

The facility is hereby notified that this permit, and all agency records concerning the operation of this permitted source, are subject to public disclosure in accordance with OAC rule 3745-49-03.

**11. Applicability**

This Permit To Install is applicable only to the emissions unit(s) identified in the Permit To Install. Separate Permit To Install for the installation or modification of any other emissions unit(s) are required for any emissions unit for which a Permit To Install is required.

**12. Best Available Technology**

As specified in OAC Rule 3745-31-05, all new sources must employ Best Available Technology (BAT). Compliance with the terms and conditions of this permit will fulfill this requirement.

**13. Source Operation and Operating Permit Requirements After Completion of Construction**

This facility is permitted to operate each source described by this Permit to Install for a period of up to one year from the date the source commenced operation. This permission to operate is granted only if the facility complies with all requirements contained in this permit and all applicable air pollution laws, regulations, and policies. Pursuant to OAC Chapter 3745-35, the permittee shall submit a complete operating permit application within ninety (90) days after commencing operation of the emissions unit(s) covered by this permit.

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#### 14. Construction Compliance Certification

The applicant shall provide Ohio EPA with a written certification (see enclosed form) that the facility has been constructed in accordance with the Permit to Install application and the terms and conditions of the Permit to Install. The certification shall be provided to Ohio EPA upon completion of construction but prior to startup of the source.

#### 15. Fees

The permittee shall pay fees to the Director of the Ohio EPA in accordance with ORC section 3745.11 and OAC Chapter 3745-78. The permittee shall pay all applicable Permit to Install fees within 30 days after the issuance of this Permit to Install.

### B. Permit to Install Summary of Allowable Emissions

The following information summarizes the total allowable emissions, by pollutant, based on the individual allowable emissions of each air contaminant source identified in this permit.

**SUMMARY (for informational purposes only)**  
**TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS**

| <u>Pollutant</u> | <u>Tons Per Year</u> |
|------------------|----------------------|
| Chromium         | $3.8 \times 10^{-5}$ |
| Particulate      | $1.5 \times 10^{-4}$ |

**PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)**

**A. Applicable Emissions Limitations and/or Control Requirements**

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

| <u>Operations, Property, and/or Equipment</u>   | <u>Applicable Rules/Requirements</u> | <u>Applicable Emissions Limitations/Control Measures</u>  |
|---|--------------------------------------|---|
| P001 - Decorative chromium electroplating line controlled with wetting agent/fume suppressant. Line includes prep tanks, rinse tanks, one copper plating tank, one nickel plating tank and one chrome plating tank. | OAC rule 3745-31-05(A)(3)            | Chromium emissions shall not exceed $3.8 \times 10^{-6}$ tons per year  |
|   |                                      | Particulate emissions shall not exceed $1.5 \times 10^{-4}$ tons per year   |
|   |                                      | The requirements of this rule also include compliance with the requirements of 40 CFR Part 63, Subpart N  |
|   | 40 CFR Part 63, Subpart N            | See Additional Terms and Conditions below   |
|   | OAC rule 3745-17-07(A)(1)            | Visible particulate emissions from the wall vent to the outside shall not exceed 20 percent opacity as a 6-minute average, except as provided by rule |
|   | OAC rule 3745-17-11(B)(1)            | The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3)       |

**2. Additional Terms and Conditions**

- 2.a The permittee shall control chromium emissions discharged to the atmosphere by not allowing the surface tension of the electroplating or anodizing bath to exceed 45 dynes per centimeter ( $3.1 \times 10^{-3}$  pound-force per foot) at any time during operation of the tank.

## B. Operational Restrictions

1. The permittee shall use a chemical fume suppressant that contains a wetting agent to control chromium emissions at all times the emissions unit is in operation.
2. At all times, including periods of startup, shutdown, and malfunction, the permittee shall operate and maintain any chromium electroplating or anodizing tank, including associated air pollution devices and monitoring equipment, in a manner consistent with the operation and maintenance plan required by these terms and conditions.
3. Malfunctions shall be corrected as soon as practicable after their occurrence in accordance with the operation and maintenance plan.
4. Determination of whether acceptable operation and maintenance procedures are being used will be based on information available to the Ohio EPA Northeast District Office, which may include, but it not limited to, monitoring results; review of the operation and maintenance plan, procedures, and records; and inspection of the emissions unit. Based on this information, the Ohio EPA Northeast District Office may require that the permittee make changes to the operation and maintenance plan if that plan:
  - a. does not address a malfunction that has occurred;
  - b. fails to provide for the operation of the emissions units, the air pollution control techniques, or the control system and process monitoring equipment during a malfunction in a manner consistent with good air pollution practices; or
  - c. does not provide adequate procedures for correcting malfunctioning process equipment, air pollution control techniques, or monitoring equipment as quickly as practicable.
5. The permittee shall prepare an operation and maintenance plan to be implemented no later than thirty days after the issuance of this permit. The plan shall include the following elements:
  - a. The plan shall specify the operation and maintenance criteria for the affected source, the add-on air pollution control device (if such a device is used to comply with the emissions limits), and the process and control system monitoring equipment, and shall include a standardized checklist to document the operation and maintenance of the equipment.

- b. If a stalagmometer is used for monitoring, follow the manufacturer's recommendations.
- c. The plan shall specify procedures to be followed to ensure that equipment or process malfunctions due to poor maintenance or other preventable conditions do not occur.
- d. The plan shall include a systematic procedure for identifying malfunctions of process equipment, add-on air pollution control devices, and process and control system monitoring equipment, and for implementing corrective actions to address such malfunctions.
- e. If the operation and maintenance plan fails to address or inadequately addresses an event that meets the characteristics of a malfunction at the time the plan is initially developed, the permittee shall revise the operation and maintenance plan within 45 days after such an event occurs.
- f. If actions taken by the permittee during periods of malfunction are inconsistent with the procedures specified in the operation and maintenance plan, the permittee shall record the actions taken for that event and shall report such actions within 2 working days after commencing actions inconsistent with the plan. This report shall be followed by a letter within 7 working days after the end of the event, unless the permittee makes alternative reporting arrangements, in advance, with the Ohio EPA Northeast District Office.
- g. The permittee shall keep the written operation and maintenance plan on record after it is developed to be made available for inspection, upon request, by the Ohio EPA, Central District Office for the life of the emissions unit. If the operation and maintenance plan is revised, the permittee shall keep previous versions of the plan on record to be made available for inspection, upon request, by the Ohio EPA, Northeast District Office for a period of 5 years after each revision of the plan.
- h. The permittee may use applicable standard operating procedure (SOP) manuals, Occupational Safety and Health Administration (OSHA) plans, or other existing plans to meet the operation and maintenance plan requirements as long as the alternative plans meet the requirements.

### **C. Monitoring and/or Recordkeeping Requirements**

- 1. The permittee shall fulfill all monitoring and recordkeeping requirements specified in the General Provisions to 40 CFR Part 63, according to the applicability of Subpart A.
- 2. The surface tension shall be monitored according to the following schedule:

- a. The surface tension shall be measured once every four hours during operation of the tank with a stalagmometer or a tensiometer as specified in Method 306B of 40 CFR Part 63, Subpart N.
- b. The time between monitoring can be increased if there have been no exceedances. The surface tension shall be measured once every four 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, surfacetension 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 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 four hours must be resumed. A subsequent decrease in frequency shall follow the schedule in paragraph (b) above.
  - d. Once a bath solution is drained from the affected tank and a new solution added, the original monitoring schedule of once every four hours must be resumed, with a decrease in monitoring frequency allowed as in paragraph (b) above.
3. The permittee also shall maintain the following records:
  - a. Inspection records for the add-on air pollution control device, if such a device is used, and monitoring equipment, to document that the inspection and maintenance required by the work practice standards of this permit have taken place. The record can take the form of a checklist and should identify the device inspected, the date of inspection, a brief description of the working condition of the device during the inspection, and any actions taken to correct deficiencies found during the inspection.
  - b. Records of all maintenance performed on the emissions unit, add-on air pollution control device if applicable, and monitoring equipment.
  - c. Records of the occurrence, duration, and cause (if known) of each malfunction of process, add-on air pollution control device, and monitoring equipment.
  - d. Records of actions taken during periods of malfunction when such actions are inconsistent with the operation and maintenance plan.
  - e. Other records, which may take the form of checklists, necessary to demonstrate consistence with the provisions of the operation and maintenance plan.
  - f. Test reports documenting results of all performance tests, if conducted.
  - g. All measurements as may be necessary to determine the conditions of performance tests.
  - h. Records of monitoring data that are used to demonstrate compliance with the standard including the date and time the data are collected.
  - i. The specific identification (i.e., the date and time of commencement and completion) of each period of excess emissions, as indicated by monitoring data, that occurs during malfunction of the process, add-on air pollution control device, or monitoring equipment.

Emissions Unit ID: **P001**

- j. The specific identification (i.e., the date and time of commencement and completion) of each period of excess emissions, as indicated by monitoring data, that occurs during periods other than malfunction of the process, add-on air pollution control device, or monitoring equipment.
  - k. The total process operating time of the emission unit during the reporting period.
  - l. All documentation supporting the notifications and reports as outlined in the Reporting Requirements of this permit and §63.9 and §63.10 of 40 CFR Part 63, subpart A.
  - m. Records of the date and time that fume suppressants are added to the electroplating or anodizing bath.
4. All records shall be maintained for a period of five years.

**D. Reporting Requirements**

- 1. The permittee shall fulfill all reporting requirement as outlined in 40 CFR Part 63 Subpart A. These reports shall be sent to the Ohio EPA, Northeast District Office by U.S. mail, fax or by another courier.
  - a. Submittals sent by U.S. mail shall be postmarked on or before the specified date.
  - b. Submittals sent by other methods shall be received by the Ohio EPA, Central District Office on or before the specified date.
- 2. The permittee is required to submit to the Ohio EPA Northeast District Office an initial notification report that contains the following information:
  - a. the name, title, and address of the owner or operator;
  - b. the address (i.e., physical location) of the emission unit;
  - c. identification of the applicable emissions limitations and compliance date;
  - d. a statement of whether the affected emission unit is located at a major source or at an area source; and
  - e. a brief description of each affected emission unit, including the type of process operation performed.

This report was already submitted with the PTI application.

3. The permittee shall submit a notification of compliance status report to the Northeast District Office within 30 days of issuance of this permit. The responsible official shall sign the report attesting to the accuracy and to whether the affected emissions unit is in compliance. The notification shall list the following for each affected emissions unit:
  - a. the applicable emission limitations and the methods used to determine compliance;
  - b. if a performance test is required, information specified in 40 CFR 63.347 that pertains to performance testing would be included;
  - c. a description of the air pollution control technique used;
  - d. a statement that the permittee has completed and has on file the operation and maintenance plan as required by the work practice standards; and
  - e. a statement by the owner or operator as to whether the emissions unit is in compliance.
4. The permittee shall report to the Ohio EPA, Northeast District Office the results of any performance test conducted. The report shall be submitted no later than 90 days following the completion of the performance test, and shall be submitted as part of the notification of compliance status report required by this section.
5. The permittee shall prepare and submit to Ohio EPA Northeast District Office an ongoing compliance status report (or summary report) annually to document the ongoing compliance status of the emissions unit. This report shall include the following:
  - a. the company name and address of the emissions unit;
  - b. an identification of the operating parameter that is monitored for compliance determination;
  - c. the relevant emission limitation for the emissions unit, and the operating parameter value, or range of values, that correspond to compliance with this emission limitation as specified in the notification of compliance status required by this section;
  - d. the beginning and ending dates of the reporting period;
  - e. description of the type of process performed;

- f. the total operating time of the emissions unit during the reporting period;
  - g. a summary of operating parameter values, including the total duration of excess emissions during the reporting period as indicated by those values, the total duration of excess emissions expressed as a percent of the total emissions unit operating time during that reporting period, and a breakdown of the total duration of excess emissions during the reporting period into those that are due to process upsets, control equipment malfunctions, other known causes, and unknown causes;
  - h. a certification by a responsible official that the work practice standards in this permit were followed in accordance with the operation and maintenance plan for the emissions unit;
  - i. if the operation and maintenance plan required by this permit was not followed, an explanation of the reasons for not following the provisions, an assessment of whether any excess emission and/or parameter monitoring exceedances are believed to have occurred, and a copy of the reports required by the work practices in this permit;
  - j. a description of any changes in monitoring, processes, or controls since the last reporting period;
  - k. the name, title, and signature of the responsible official who is certifying the accuracy of the report; and
  - l. the date of the report.
6. The permittee shall report to the Ohio EPA Northeast District Office if the following conditions (exceedances) are met:
    - a. the total duration of excess emissions is one percent or greater of the total operating time for the reporting period; and
    - b. the total duration of malfunctions of the add-on air pollution control device and monitoring equipment is 5 percent or greater of the total operating time.
  7. Once an exceedance is reported, the permittee shall prepare and submit the ongoing compliance status reports semiannually to the Ohio EPA Northeast District Office.
  8. The Ohio EPA Northeast District Office may determine on a case-by-case basis that the ongoing compliance status 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.

9. The permittee who is required to submit ongoing compliance status reports on a semiannual basis, or is required to submit its annual report instead of retaining it on site, may reduce the frequency of reporting to annual and/or be allowed to maintain the annual report on site if all of the following conditions are met:
  - a. For 1 full year (e.g., 2 semiannual or 4 quarterly reporting periods), the ongoing compliance status reports demonstrate that the affected emissions unit is in compliance with the relevant emission limit.
  - b. The permittee continues to comply with all applicable recordkeeping and monitoring requirements of 40 CFR Part 63, subpart A and this permit.
  - c. The Ohio EPA Northeast does not object to a reduced reported frequency. The frequency of submitted ongoing compliance status reports may be reduced if the following requirements are met:

Emissions Unit ID: P001

- i. The permittee notifies the Ohio EPA, Northeast District Office in writing of its intentions to make such a change. The Ohio EPA, Northeast District Office may review information concerning the facility's previous performance history during the 5-year recordkeeping period prior to the intended change, or the recordkeeping period since the emission unit's compliance date, whichever is shorter. Records subject to review include performance test results, monitoring data, and evaluations of the permittee's conformance with emission limitations and work practice standards. If the permittee's request is disapproved, the Ohio EPA, Northeast District Office will notify the permittee in writing within 45 days after receiving notice. This notification will specify the grounds on which the disapproval is based. In the absence of a notice of disapproval within 45 days, approval is automatically granted.
  - ii. If monitoring data show that the emissions unit is not in compliance with the relevant emission limit, the frequency of reporting shall revert to semiannual, and the permittee shall state this exceedance in the ongoing compliance status report for the next reporting period. After demonstrating ongoing compliance with the relevant emission limit for another full year, the permittee may again request approval to reduce the reporting frequency.
10. The permittee is required to submit a notification of construction or reconstruction before the construction or reconstruction has commenced to the Ohio EPA Northeast District Office which includes the following:
  - a. The permittee's name, title, and address.
  - b. The address (i.e., physical location) or proposed address of the affected emissions unit if different from the permittee's.
  - c. A notification of intention to construct or make any physical or operational changes to an affected emissions unit that may meet or has been determined to meet the criteria for a reconstruction as defined in 40 CFR part 63.2.
  - d. An identification of 40 CFR Part 63, subpart N as the basis for the notification.
  - e. The expected commencement and completion dates of the construction or reconstruction.
  - f. The anticipated date of (initial) startup.
  - g. The type of process operation to be performed (hard or decorative chromium electroplating or chromium anodizing).

- h. A description of the air pollution control technique to be used to control emissions, such as preliminary design drawings and design capacity if an add-on air pollution control device is used.
- i. An estimate of emissions based on engineering calculations and vendor information on control device efficiency, expressed in units consistent with the emissions limits of 40 CFR Part 63, subpart N. Calculations of emission estimates should be in sufficient detail to permit assessment of the validity of the calculations.

This report was already submitted with the PTI application.

- 11. If a reconstruction is to occur, the permittee shall submit as soon as practicable the following information to the appropriate Ohio EPA District Office or local air agency:
  - a. A brief description of the affected emissions unit and the components to be replaced.
  - b. A brief description of the present and proposed emission control technique.
  - c. An estimate of the fixed capital cost of the replacements and of constructing a comparable entirely new emissions unit.
  - d. The estimated life of the affected emissions unit after the replacements.
  - e. A discussion of any economic or technical limitations the emissions unit may have in complying with relevant standards or other requirements after proposed replacements. The discussion shall be sufficiently detailed to demonstrate to the appropriate Ohio EPA District Office or local air agency satisfaction that the technical or economic limitations affected the emissions unit ability to comply with the relevant standard and how they do so.

## **E. Testing Requirements**

- 1. Compliance with the emissions limitation(s) in Section A.1 of these Special Terms and Conditions shall be determined in accordance with the following requirements:
  - a. Emission Limitation:  
The surface tension of the electroplating bath shall not exceed 45 dynes per centimeter.  
  
Applicable Compliance Method:

**Lakeside Custom Plating LLC**

**PTI Application: 02-10221**

**Issued**

**Facility ID: 0204020451**

Emissions Unit ID: **P001**

Compliance may be determined by the monitoring and recordkeeping requirements specified in Section C.2 of this permit.

- b. Emission Limitation:  
Chromium emissions shall not exceed  $3.8 \times 10^{-5}$  ton per year

Applicable Compliance Method:

To determine compliance with the annual emission limit, the following equation shall be used:

$$Ea = EF \times 100 \times Rc \times 1/7,000 \times Hr \times 1/2,000$$

where:

|         |   |  |
|---------|---|--|
| Ea      | = | actual annual chromium emissions in tons per year  |
| EF      | = | chromium emission factor of $1.2 \times 10^{-6}$ grains/dscf (taken from AP-42, Section 12.20, Table 12.20-1 for decorative chromium electroplating with fume suppressant) |
| 100     | = | conversion factor for converting grains/dscf to grains/amp-hr  |
| Rc      | = | rectifier capacity in amps (actual amps used in chromium tank)   |
| 1/7,000 | = | 1 pound per 7,000 grains to convert from grain/hr to lbs/hr  |
| Hr      | = | hours per year of operation of chromium electroplating tank  |
| 1/2,000 | = | 1 ton per 2,000 pounds to convert from lbs/yr to ton/yr  |

If required, compliance shall be determined in accordance with Test Methods 306 or 306A as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources").

- c. Emission Limitation:  
Particulate emissions shall not exceed  $1.5 \times 10^{-4}$  ton per year

Applicable Compliance Method:

To determine compliance with the annual emission limit, the following equation shall be used:

$$Ea = EF \times 100 \times Rc \times 1/7,000 \times Hr \times 1/2,000$$

where:

|    |   |   |
|----|---|---|
| Ea | = | actual annual particulate emissions in tons per year  |
| EF | = | particulate emission factor of $2.5 \times 10^{-6}$ grains/dscf (taken from AP-42, Section 12.20, Table 12.20-1 for decorative chromium electroplating with fume suppressant) |

|         |   |   |
|---------|---|---|
| 100     | = | conversion factor for converting grains/dscf to grains/amp-hr                                 |
| Rc      | = | rectifier capacity in amps (total actual amps used in acid/copper, nickel and chromium tanks) |
| 1/7,000 | = | 1 pound per 7,000 grains to convert from grain/hr to lbs/hr                                   |
| Hr      | = | hours per year of operation of chromium electroplating tank                                   |
| 1/2,000 | = | 1 ton per 2,000 pounds to convert from lbs/yr to ton/yr                                       |

If required, compliance shall be determined in accordance with Test Methods 1-5 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources").

- d. Emission Limitation:  
 Visible particulate emissions shall not exceed 20% opacity as a 6-minute average, except as provided by rule.

Applicable Compliance Method:

If required, compliance shall be determined in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources").

## F. Miscellaneous Requirements

None