State of Ohio Environmental Protection Agency

RE: FINAL PERMIT TO INSTALL MODIFICATION **CERTIFIED MAIL**
MONTGOMERY COUNTY

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: 08-03193

DATE: 5/3/2001

Techmetals Inc
Renee Gray
PO Box 1266 345 Springfield St
Dayton, OH 454030000

Enclosed Please find a modification to the Ohio EPA Permit To Install referenced above which will modify the terms and conditions.

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
236 East Town Street, Room 300
Columbus, Ohio 43215

Very truly yours,

Thomas G. Rigo

Thomas G. Rigo, Manager
Field Operations and Permit Section
Division of Air Pollution Control

CC: USEPA **RAPCA**

STATE OF OHIO ENVIRONMENTAL PROTECTION AGENCY

Permit To Install **Issue Date: 5/3/2001**
Terms and Conditions **Effective Date: 5/3/2001**

FINAL ADMINISTRATIVE MODIFICATION OF PERMIT TO INSTALL 08-03193

Application Number:	08-03193
APS Premise Number:	0857043032
Permit Fee:	**$600**
Name of Facility:	Techmetals Inc
Person to Contact:	Renee Gray
Address:	PO Box 1266 345 Springfield St Dayton, OH 454030000

Location of proposed air contaminant source(s) [emissions unit(s)]:
345 Springfield St
Dayton, **Ohio**

Description of proposed emissions unit(s):
Modification of P001 - P003, P005, and P006 to change the control method from Composite Mesh Pad to Emission Elimination Devices (EEDs) and to update language. No control change for P004.

The above named entity is hereby granted a modification to the permit to install described above pursuant to Chapter 3745-31 of the Ohio Administrative Code. Issuance of this modification 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 source(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 included in the application, the above described source(s) of pollutants will be granted the necessary operating permits.

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 Related to Monitoring and Recordkeeping 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

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 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 application must be made to the Director for the installation or modification of any other emissions unit(s).

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

a. If the permittee is required to apply for a Title V permit pursuant to OAC Chapter 3745-77, the permittee shall submit a complete Title V permit application or a complete Title V permit modification application within twelve (12) months after commencing operation of the emissions units covered by this permit. However, if the proposed new or

modified source(s) would be prohibited by the terms and conditions of an existing Title V permit, a Title V permit modification must be obtained before the operation of such new or modified source(s) pursuant to OAC rule 3745-77-04(D) and OAC rule 3745-77-08(C)(3)(d).

b. If the permittee is required to apply for permit(s) pursuant to OAC Chapter 3745-35, the source(s) identified in this Permit To Install is (are) permitted to operate for a period of up to one year from the date the source(s) commenced operation. 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 thirty (30) days after commencing operation of the source(s) covered by this permit.

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

Pollutant	Tons Per Year
Chromuim	None specified

Emissions Unit ID: **P001**

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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
P001 - hard chromium electroplating process with emission elimination device (EED); 110-CR1	OAC rule 3745-31-05(A)(3)	Application of an emission elimination device ("EED"), an alternative control technology.
	40 CFR Part 63, Subpart N	The permittee shall not allow the concentration of total chromium in the exhaust gases discharged to the atmosphere to exceed 0.015 milligrams of total chromium per dry standard cubic meter ("mg/dscm") of ventilation air (6.6 x 10^-06 grains per dry standard cubic foot ["gr/dscf"]).

2. Additional Terms and Conditions

2.a None

B. Operational Restrictions

1. At all times, including periods of startup, shutdown, and malfunction, the permittee shall operate and maintain any chromium electroplating or anodizing tank, including associated emission elimination devices (EEDs) and monitoring equipment, in a manner consistent with the operation and maintenance plan required by these terms and conditions.

2. Malfunctions shall be corrected as soon as practicable after their occurrence in accordance with the operation and maintenance plan.

3. Determination of whether acceptable operation and maintenance procedures are being used will be based on information available to the Regional Air Pollution Control Agency, which may include, but is not limited to, monitoring results; review of the operation and maintenance plan, procedures, and records; and inspection of the emission unit. Based on this information, the

Regional Air Pollution Control Agency 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 control practices; or,

c. does not provide adequate procedures for correcting malfunctioning process equipment, air pollution control techniques, or monitoring equipment as quickly as possible.

4. The permittee shall prepare an operation and maintenance plan to be implemented upon startup. The plan shall include the following elements:

a. the operation and maintenance criteria for the affected source, the EEDs , and the process and control system monitoring equipment, and shall include a standardized checklist to document the operation and maintenance of the equipment;

b. work practice standards for the EEDs as outlined in the USEPA approval letter dated September 4, 1996, resulting from a submittal required under section 63.342 (f)(3)(c) and section 63.343 (d) of 40 CFR Part 63, Subpart N, for an air pollution control device not listed. These work practice standards shall include the following:

i. drain the air-inlet (purge air) valves at the end of each day that the tanks are in operation;

ii. perform weekly visual inspections of access door seals and membranes on the EED for integrity;

iii. drain the evacuation units, weekly, into the plating tank or into the rinse tanks (for recycle into the plating tank);

iv. perform monthly visual inspections of membranes for perforations using a light source that adequately illuminates the membrane (e.g., Grainger model No. 6X971 Fluorescent Hand Lamp);

v. perform monthly visual inspections of all clamps for proper operation and replace as needed;

vi. monthly cleaning or replacement of filters on the evacuation unit;

vii. perform quarterly inspections of the evacuation unit and the piping to and from the unit to ensure that there are no leaks and no evidence of chemical attack; and,

viii. replace access door seals, membranes evacuation unit filters, and purge air inlet check valves in accordance with manufacturer's recommendations.

c. procedures to be followed to ensure that equipment or process malfunctions due to poor maintenance or other preventable conditions do not occur;

d. a systematic procedure for identifying malfunctions of process equipment, EEDs, 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 malfunctions 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 the 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 Regional Air Pollution Control Agency.);

g. the permittee shall keep the written operation and maintenance plan on record, and it shall be made available for inspection upon request by the Regional Air Pollution Control Agency 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 Regional Air Pollution Control Agency, for a period of five years after each revision to the plan.); and,

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 follow the continuous compliance monitoring program as outlined in the USEPA approval letter of September 4, 1996, including the following:

a. beginning on the date of the initial performance test, the permittee shall monitor the

continued integrity of the EED seals and membranes using the following methods (Compliance monitoring shall occur once each day that the affected source is operating using both of the following methods, unless no evacuation/purge cycle is performed. The absence of the evacuation/purge cycle shall be recorded and only the first method shall be used to determine compliance on that day.);

i. verify the positive pressure on the EED membrane(s) when the electroplating tank is in operation and parts are being plated by inducing an external pressure to the membrane, which should be bulged slightly upward (This can be done by manually tapping the membrane downwards. By inducing external pressure on a segment of membrane, the balance of positive pressure is shifted to other part of the same membrane and/or to the other membrane(s). This should result in a movement at this and/or the other membrane(s) when the system is adequately sealed and the membrane(s) are intact. Absence of such movement or rebound of the membrane indicates lack of adequate seal or lack of membrane integrity.); and when applicable,

ii. verify the presence of negative pressure on the EED membrane(s) during an evacuation/purge cycle (Negative pressure is demonstrated by movement of the membrane(s) toward the electroplating solution. The absence of inward movement of the membrane(s) during evacuation indicates lack of adequate seal or lack of membrane integrity.);

b. beginning on the date of the initial performance test, the permittee shall record the results of the daily EED integrity testing.

Operation of the emissions unit with the lack of adequate seals or membrane integrity shall constitute noncompliance with the standards.

2. The permittee shall fulfill all record keeping requirements in the General Provisions to 40 CFR Part 63, according to the applicability of Subpart A.

3. The permittee shall maintain the following records:

a. inspection records for the EEDs 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, and any actions taken to correct deficiencies found during the inspection.);

b. records of all maintenance performed on the emissions unit, EEDs, and monitoring equipment;

c. records of the occurrence, duration, and cause (if known) of each malfunction of process, EEDs, 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 consistency with the provisions of the operation and maintenance plan;

f. test reports documenting results of all performance tests;

g. all measurements as may be necessary to determine the conditions of performance tests;

h. records of monitoring data, including those required in 1.b above, that are used to demonstrate compliance with the standard including the data 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, EEDs, or monitoring equipment;

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, EEDs, or monitoring equipment;

k. the total process operating time of the emissions unit during the reporting period; and,

l. all documentation supporting the notifications and reports as outlined in the Reporting Requirements of this permit and sections 63.9 and 63.10 of 40 CFR Part 63, Subpart A.

4. All records 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 recordings for continuous monitoring instrumentation, and copies of all reports required by the permit. Such records may be maintained in computerized form.

D. Reporting Requirements

1. The permittee shall fulfill all reporting requirements as outlined in 40 CFR Part 63, Subpart A. These reports shall be made to the Regional Air Pollution Control Agency and shall be sent 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 Regional Air Pollution Control Agency on or before the specified date.

2. The permittee shall submit to the Regional Air Pollution Control Agency an initial notification report that contains the following information:

   a. the date when construction or reconstruction was commenced, no later than 30 calendar days after such date; and,

   b. the actual date of startup of the emissions unit 30 calendar days after such date.

3. The permittee shall submit a Notification of Performance Test to the Regional Air Pollution Control Agency at least 60 calendar days before the performance test is scheduled. In the event that the permittee is unable to conduct the performance test as scheduled, the provisions of 40 CFR Part 63, Subpart A, Section 63.7 (b)(2), shall apply.

4. The permittee shall report to the Regional Air Pollution Control Agency the results of any performance test conducted. The report shall be submitted no later than 90 days following the completion of the performance test.

5. The permittee shall submit a Notification of Compliance Status to the Regional Air Pollution Control Agency 90 days after the performance test is completed, signed by the responsible official who shall certify its accuracy, attesting to whether the affected emissions unit is in compliance. The notification shall list for each emissions unit:

   a. the applicable emission limitations and the methods that were used to determined compliance with this limitation;

   b. the test report documenting the results of the performance test, which includes the elements required in the Test Requirements section of this permit;

   c. for each monitored parameter for which a compliant value was established, the specific operating parameter value, or range of values, that corresponds to compliance with the applicable emission limit;

   d. the methods that will be used to determine continuous compliance;

e. a description of the air pollution control technique used for each emission point;

f. a statement that the permittee has completed and has on file the operation and maintenance plan as required by the work practice standards; and,

g. a statement by the owner or operator as to whether the emissions unit is in compliance.

6. The permittee shall prepare an ongoing compliance status report annually (unless a request to reduce frequency of ongoing compliance status reports has been approved) to the Regional Air Pollution Control Agency 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 determined by the most recent performance test;

d. a description of the type of process performed in the emissions unit;

e. the beginning and ending dates of the reporting period;

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 known 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 accuracy of the report; and

l. the date of the report.

7. The permittee shall submit semiannual reports if the following conditions 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 air pollution control device and monitoring equipment is 5 percent or greater of the total operating time.

8. Once the permittee reports an exceedance meeting the criterion in D.5 above, ongoing compliance status reports shall be submitted semiannually.

9. The Regional Air Pollution Control Agency may determine on a case-by-case basis that the summary report shall be completed more frequently and submitted instead of being retained on site, if these measures are necessary to accurately assess the compliance status of the emissions unit.

10. The permittee who is required to submit ongoing compliance status reports on a semiannual (or more frequent) basis, or is required to submit its annual report instead of retaining it on site, may reduce the frequency of reporting to annual and/or be allowed to maintain the annual report on site once 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 record keeping and monitoring requirements of 40 CFR Part 63, Subpart A and this permit; and,

    c. the Regional Air Pollution Control Agency does not object to a reduced reporting frequency. The frequency of submitting ongoing compliance status reports may be reduced if the following requirements are met:

       i. the permittee notifies the Regional Air Pollution Control Agency in writing of its intentions to make such a change (The Regional Air Pollution Control Agency may

review information concerning the facility's previous performance history during the 5-year record keeping period prior to the intended change, or the record keeping period since the emissions 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 Regional Air Pollution Control Agency will notify the permittee in writing within 45 days after receiving notice. In the absence of a notice of disapproval within 45 days, approval is automatically granted.); and,

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.

11. The permittee shall submit a notification of reconstruction as soon as practicable before the reconstruction has commenced to the Regional Air Pollution Control Agency 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 units if different from the permittee's;

c. a notification of intention to 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 CR 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 reconstruction;

f. the anticipated date of the reconstructed unit's 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; and,

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.

12. The permittee shall notify the Regional Air Pollution Control Agency of any daily compliance test record which indicates the lack of adequate seals or membrane integrity. The notification shall include a copy of such record and shall be sent to the Regional Air Pollution Control Agency within 90 days after the test date.

E. Testing Requirements

1. Compliance with the emission limitation(s) in this permit shall be determined in accordance with the following method(s):

   a. Emission Limitation:

   0.015 mg/dscm (6.6 x 10^-06 gr/dscf)

   Applicable Compliance Method:

   i. Compliance shall be initially demonstrated through a qualitative performance test method as outlined and approved in USEPA's letter of August 9, 1996, addressed to Techmetals, Incorporated, and outlined as follows:

   A smoke generating device, capable of generating 500 to 1000 cubic feet of smoke per 20 square feet of tank surface area, shall be placed in a small container. The small container shall be placed on a stable and flat area at the center of the EED. Upon lighting the smoke device, the access door to the tank shall be quickly closed to avoid smoke from escaping. The smoke device shall be allowed to completely burn, filling the space under the EED. Once the area under the EED is filled with smoke, each seal, joint, and membrane of the EED shall be checked, from the outside, for signs of smoke leaking through.

   Any observed leaks in the EED shall be considered indications of noncompliance with the Chrome Plating NESHAP.

   When all seals, joints, and membranes have been observed, the evacuation unit shall be turned on to remove the smoke from the EED.

   After initial performance testing of the emissions unit has been completed, future performance testing of this type shall be completed at the request of the Regional

Air Pollution Control Agency.

and:

ii. Compliance shall be demonstrated on a daily basis, on each day the emissions unit is in use, through the testing as described in Section C.1. Should the daily demonstration indicate a lack of an adequate seal, or lack of membrane integrity, the emissions unit shall be considered to be operating in noncompliance with the standard.

2. Performance test results shall be documented in complete test reports that contain the following information:

   a. a brief process description;

   b. sampling location description(s);

   c. a description of sampling and analytical procedures and any modifications to standard procedures;

   d. test results;

   e. any other information required by the test method.

3. The permittee may use a performance test to demonstrate compliance if:

   a. the test methods and procedures identified in this permit were used during the performance test;

   b. the performance test was conducted under representative operating conditions;

   c. the performance test report contains the elements of paragraph E.2.a. through E.2.i. in this section; and,

   d. the permittee has sufficient data to establish the operating parameter value that corresponds to compliance as required for continuous compliance monitoring.

F. Miscellaneous Requirements

None

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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
P002 - hard chromium electroplating process tanks with emission elimination device (EED); 120-CR1 and 120-CR2	OAC rule 3745-31-05(A)(3)	Application of an emission elimination device ("EED"), an alternative control technology.
	40 CFR Part 63, Subpart N	The permittee shall not allow the concentration of total chromium in the exhaust gases discharged to the atmosphere to exceed 0.015 milligrams of total chromium per dry standard cubic meter ("mg/dscm") of ventilation air (6.6 x 10^-06 grains per dry standard cubic foot ["gr/dscf"]).

2. Additional Terms and Conditions

2.a None

B. Operational Restrictions

1. At all times, including periods of startup, shutdown, and malfunction, the permittee shall operate and maintain any chromium electroplating or anodizing tank, including associated emission elimination devices (EEDs) and monitoring equipment, in a manner consistent with the operation and maintenance plan required by these terms and conditions.

2. Malfunctions shall be corrected as soon as practicable after their occurrence in accordance with the operation and maintenance plan.

3. Determination of whether acceptable operation and maintenance procedures are being used will be based on information available to the Regional Air Pollution Control Agency, which may include, but is not limited to, monitoring results; review of the operation and maintenance plan, procedures, and records; and inspection of the emission unit. Based on this information, the Regional Air Pollution Control Agency 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 control practices; or,

   c. does not provide adequate procedures for correcting malfunctioning process equipment, air pollution control techniques, or monitoring equipment as quickly as possible.

4. The permittee shall prepare an operation and maintenance plan to be implemented upon startup. The plan shall include the following elements:

   a. the operation and maintenance criteria for the affected source, the EEDs , and the process and control system monitoring equipment, and shall include a standardized checklist to document the operation and maintenance of the equipment;

   b. work practice standards for the EEDs as outlined in the USEPA approval letter dated September 4, 1996, resulting from a submittal required under section 63.342 (f)(3)(c) and section 63.343 (d) of 40 CFR Part 63, Subpart N, for an air pollution control device not listed. These work practice standards shall include the following:

      i. drain the air-inlet (purge air) valves at the end of each day that the tanks are in operation;

      ii. perform weekly visual inspections of access door seals and membranes on the EED for integrity;

      iii. drain the evacuation units, weekly, into the plating tank or into the rinse tanks (for recycle into the plating tank);

      iv. perform monthly visual inspections of membranes for perforations using a light source that adequately illuminates the membrane (e.g., Grainger model No. 6X971 Fluorescent Hand Lamp);

v. perform monthly visual inspections of all clamps for proper operation and replace as needed;

vi. monthly cleaning or replacement of filters on the evacuation unit;

vii. perform quarterly inspections of the evacuation unit and the piping to and from the unit to ensure that there are no leaks and no evidence of chemical attack; and,

viii. replace access door seals, membranes evacuation unit filters, and purge air inlet check valves in accordance with manufacturer's recommendations.

c. procedures to be followed to ensure that equipment or process malfunctions due to poor maintenance or other preventable conditions do not occur;

d. a systematic procedure for identifying malfunctions of process equipment, EEDs, 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 malfunctions 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 the 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 Regional Air Pollution Control Agency.);

g. the permittee shall keep the written operation and maintenance plan on record, and it shall be made available for inspection upon request by the Regional Air Pollution Control Agency 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 Regional Air Pollution Control Agency, for a period of five years after each revision to the plan.); and,

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 follow the continuous compliance monitoring program as outlined in the USEPA approval letter of September 4, 1996, including the following:

   a. beginning on the date of the initial performance test, the permittee shall monitor the continued integrity of the EED seals and membranes using the following methods (Compliance monitoring shall occur once each day that the affected source is operating using both of the following methods, unless no evacuation/purge cycle is performed. The absence of the evacuation/purge cycle shall be recorded and only the first method shall be used to determine compliance on that day.);

      i. verify the positive pressure on the EED membrane(s) when the electroplating tank is in operation and parts are being plated by inducing an external pressure to the membrane, which should be bulged slightly upward (This can be done by manually tapping the membrane downwards. By inducing external pressure on a segment of membrane, the balance of positive pressure is shifted to other part of the same membrane and/or to the other membrane(s). This should result in a movement at this and/or the other membrane(s) when the system is adequately sealed and the membrane(s) are intact. Absence of such movement or rebound of the membrane indicates lack of adequate seal or lack of membrane integrity.); and when applicable,

      ii. verify the presence of negative pressure on the EED membrane(s) during an evacuation/purge cycle (Negative pressure is demonstrated by movement of the membrane(s) toward the electroplating solution. The absence of inward movement of the membrane(s) during evacuation indicates lack of adequate seal or lack of membrane integrity.);

   b. beginning on the date of the initial performance test, the permittee shall record the results of the daily EED integrity testing.

      Operation of the emissions unit with the lack of adequate seals or membrane integrity shall constitute noncompliance with the standards.

2. The permittee shall fulfill all record keeping requirements in the General Provisions to 40 CFR Part 63, according to the applicability of Subpart A.

3. The permittee shall maintain the following records:

   a. inspection records for the EEDs 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, and any actions taken to correct deficiencies found during the inspection.);

   b. records of all maintenance performed on the emissions unit, EEDs, and monitoring equipment;

   c. records of the occurrence, duration, and cause (if known) of each malfunction of process, EEDs, 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 consistency with the provisions of the operation and maintenance plan;

   f. test reports documenting results of all performance tests;

   g. all measurements as may be necessary to determine the conditions of performance tests;

   h. records of monitoring data, including those required in 1.b above, that are used to demonstrate compliance with the standard including the data 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, EEDs, or monitoring equipment;

   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, EEDs, or monitoring equipment;

   k. the total process operating time of the emissions unit during the reporting period; and,

   l. all documentation supporting the notifications and reports as outlined in the Reporting Requirements of this permit and sections 63.9 and 63.10 of 40 CFR Part 63, Subpart A.

4. All records 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 recordings for continuous monitoring instrumentation, and copies of all reports required by the permit. Such records may be maintained in computerized form.

D. Reporting Requirements

1. The permittee shall fulfill all reporting requirements as outlined in 40 CFR Part 63, Subpart A. These reports shall be made to the Regional Air Pollution Control Agency and shall be sent 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 Regional Air Pollution Control Agency on or before the specified date.

2. The permittee shall submit to the Regional Air Pollution Control Agency an initial notification report that contains the following information:

   a. the date when construction or reconstruction was commenced, no later than 30 calendar days after such date; and,

   b. the actual date of startup of the emissions unit 30 calendar days after such date.

3. The permittee shall submit a Notification of Performance Test to the Regional Air Pollution Control Agency at least 60 calendar days before the performance test is scheduled. In the event that the permittee is unable to conduct the performance test as scheduled, the provisions of 40 CFR Part 63, Subpart A, Section 63.7 (b)(2), shall apply.

4. The permittee shall report to the Regional Air Pollution Control Agency the results of any performance test conducted. The report shall be submitted no later than 90 days following the completion of the performance test.

5. The permittee shall submit a Notification of Compliance Status to the Regional Air Pollution Control Agency 90 days after the performance test is completed, signed by the responsible official who shall certify its accuracy, attesting to whether the affected emissions unit is in compliance. The notification shall list for each emissions unit:

   a. the applicable emission limitations and the methods that were used to determined

compliance with this limitation;

b. the test report documenting the results of the performance test, which includes the elements required in the Test Requirements section of this permit;

c. for each monitored parameter for which a compliant value was established, the specific operating parameter value, or range of values, that corresponds to compliance with the applicable emission limit;

d. the methods that will be used to determine continuous compliance;

e. a description of the air pollution control technique used for each emission point;

f. a statement that the permittee has completed and has on file the operation and maintenance plan as required by the work practice standards; and,

g. a statement by the owner or operator as to whether the emissions unit is in compliance.

6. The permittee shall prepare an ongoing compliance status report annually (unless a request to reduce frequency of ongoing compliance status reports has been approved) to the Regional Air Pollution Control Agency 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 determined by the most recent performance test;

d. a description of the type of process performed in the emissions unit;

e. the beginning and ending dates of the reporting period;

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 known 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 accuracy of the report; and

l. the date of the report.

7. The permittee shall submit semiannual reports if the following conditions 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 air pollution control device and monitoring equipment is 5 percent or greater of the total operating time.

8. Once the permittee reports an exceedance meeting the criterion in D.5 above, ongoing compliance status reports shall be submitted semiannually.

9. The Regional Air Pollution Control Agency may determine on a case-by-case basis that the summary report shall be completed more frequently and submitted instead of being retained on site, if these measures are necessary to accurately assess the compliance status of the emissions unit.

10. The permittee who is required to submit ongoing compliance status reports on a semiannual (or more frequent) basis, or is required to submit its annual report instead of retaining it on site, may reduce the frequency of reporting to annual and/or be allowed to maintain the annual report on site once 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 record keeping and monitoring requirements of 40 CFR Part 63, Subpart A and this permit; and,

    c. the Regional Air Pollution Control Agency does not object to a reduced reporting frequency. The frequency of submitting ongoing compliance status reports may be reduced if the following requirements are met:

       i. the permittee notifies the Regional Air Pollution Control Agency in writing of its intentions to make such a change (The Regional Air Pollution Control Agency may review information concerning the facility's previous performance history during the 5-year record keeping period prior to the intended change, or the record keeping period since the emissions 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 Regional Air Pollution Control Agency will notify the permittee in writing within 45 days after receiving notice. In the absence of a notice of disapproval within 45 days, approval is automatically granted.); and,

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.

11. The permittee shall submit a notification of reconstruction as soon as practicable before the reconstruction has commenced to the Regional Air Pollution Control Agency 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 units if different from the permittee's;

c. a notification of intention to 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 CR 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 reconstruction;

f. the anticipated date of the reconstructed unit's 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; and,

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.

12. The permittee shall notify the Regional Air Pollution Control Agency of any daily compliance test record which indicates the lack of adequate seals or membrane integrity. The notification shall include a copy of such record and shall be sent to the Regional Air Pollution Control Agency within 90 days after the test date.

E. Testing Requirements

1. Compliance with the emission limitation(s) in this permit shall be determined in accordance with the following method(s):

   a. Emission Limitation:

      0.015 mg/dscm (6.6 x 10^-06 gr/dscf)

      Applicable Compliance Method:

      i. Compliance shall be initially demonstrated through a qualitative performance test method as outlined and approved in USEPA's letter of August 9, 1996, addressed to Techmetals, Incorporated, and outlined as follows:

         A smoke generating device, capable of generating 500 to 1000 cubic feet of smoke per 20 square feet of tank surface area, shall be placed in a small container. The small container shall be placed on a stable and flat area at the center of the EED. Upon lighting the smoke device, the access door to the tank shall be quickly closed to avoid smoke from escaping. The smoke device shall be allowed to completely burn, filling the space under the EED. Once the area under the EED is filled with smoke, each seal, joint, and membrane of the EED shall be checked, from the outside, for signs of smoke leaking through.

         Any observed leaks in the EED shall be considered indications of noncompliance with the Chrome Plating NESHAP.

         When all seals, joints, and membranes have been observed, the evacuation unit shall be turned on to remove the smoke from the EED.

         After initial performance testing of the emissions unit has been completed, future performance testing of this type shall be completed at the request of the Regional Air Pollution Control Agency.

         and:

      ii. Compliance shall be demonstrated on a daily basis, on each day the emissions unit is in use, through the testing as described in Section C.1. Should the daily demonstration indicate a lack of an adequate seal, or lack of membrane integrity,

the emissions unit shall be considered to be operating in noncompliance with the standard.

2. Performance test results shall be documented in complete test reports that contain the following information:

   a. a brief process description;

   b. sampling location description(s);

   c. a description of sampling and analytical procedures and any modifications to standard procedures;

   d. test results;

   e. any other information required by the test method.

3. The permittee may use a performance test to demonstrate compliance if:

   a. the test methods and procedures identified in this permit were used during the performance test;

   b. the performance test was conducted under representative operating conditions;

   c. the performance test report contains the elements of paragraph E.2.a. through E.2.i. in this section; and,

   d. the permittee has sufficient data to establish the operating parameter value that corresponds to compliance as required for continuous compliance monitoring.

F. Miscellaneous Requirements

None

Emissions Unit ID: **P003**

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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
P003 - hard chromium electroplating process tank with emission elimination device (EED); 120-CR3	OAC rule 3745-31-05(A)(3)	Application of an emission elimination device ("EED"), an alternative control technology.
	40 CFR Part 63, Subpart N	The permittee shall not allow the concentration of total chromium in the exhaust gases discharged to the atmosphere to exceed 0.015 milligrams of total chromium per dry standard cubic meter ("mg/dscm") of ventilation air (6.6 x 10^-06 grains per dry standard cubic foot ["gr/dscf"]).

2. Additional Terms and Conditions

2.a None

B. Operational Restrictions

1. At all times, including periods of startup, shutdown, and malfunction, the permittee shall operate and maintain any chromium electroplating or anodizing tank, including associated emission elimination devices (EEDs) and monitoring equipment, in a manner consistent with the operation and maintenance plan required by these terms and conditions.

2. Malfunctions shall be corrected as soon as practicable after their occurrence in accordance with the operation and maintenance plan.

3. Determination of whether acceptable operation and maintenance procedures are being used will be based on information available to the Regional Air Pollution Control Agency, which may include, but is not limited to, monitoring results; review of the operation and maintenance plan, procedures, and records; and inspection of the emission unit. Based on this information, the Regional Air Pollution Control Agency 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 control practices; or,

   c. does not provide adequate procedures for correcting malfunctioning process equipment, air pollution control techniques, or monitoring equipment as quickly as possible.

4. The permittee shall prepare an operation and maintenance plan to be implemented upon startup. The plan shall include the following elements:

   a. the operation and maintenance criteria for the affected source, the EEDs , and the process and control system monitoring equipment, and shall include a standardized checklist to document the operation and maintenance of the equipment;

   b. work practice standards for the EEDs as outlined in the USEPA approval letter dated September 4, 1996, resulting from a submittal required under section 63.342 (f)(3)(c) and section 63.343 (d) of 40 CFR Part 63, Subpart N, for an air pollution control device not listed. These work practice standards shall include the following:

      i. drain the air-inlet (purge air) valves at the end of each day that the tanks are in operation;

      ii. perform weekly visual inspections of access door seals and membranes on the EED for integrity;

      iii. drain the evacuation units, weekly, into the plating tank or into the rinse tanks (for recycle into the plating tank);

      iv. perform monthly visual inspections of membranes for perforations using a light source that adequately illuminates the membrane (e.g., Grainger model No. 6X971 Fluorescent Hand Lamp);

v. perform monthly visual inspections of all clamps for proper operation and replace as needed;

vi. monthly cleaning or replacement of filters on the evacuation unit;

vii. perform quarterly inspections of the evacuation unit and the piping to and from the unit to ensure that there are no leaks and no evidence of chemical attack; and,

viii. replace access door seals, membranes evacuation unit filters, and purge air inlet check valves in accordance with manufacturer's recommendations.

c. procedures to be followed to ensure that equipment or process malfunctions due to poor maintenance or other preventable conditions do not occur;

d. a systematic procedure for identifying malfunctions of process equipment, EEDs, 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 malfunctions 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 the 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 Regional Air Pollution Control Agency.);

g. the permittee shall keep the written operation and maintenance plan on record, and it shall be made available for inspection upon request by the Regional Air Pollution Control Agency 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 Regional Air Pollution Control Agency, for a period of five years after each revision to the plan.); and,

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 follow the continuous compliance monitoring program as outlined in the USEPA approval letter of September 4, 1996, including the following:

   a. beginning on the date of the initial performance test, the permittee shall monitor the continued integrity of the EED seals and membranes using the following methods (Compliance monitoring shall occur once each day that the affected source is operating using both of the following methods, unless no evacuation/purge cycle is performed. The absence of the evacuation/purge cycle shall be recorded and only the first method shall be used to determine compliance on that day.);

      i. verify the positive pressure on the EED membrane(s) when the electroplating tank is in operation and parts are being plated by inducing an external pressure to the membrane, which should be bulged slightly upward (This can be done by manually tapping the membrane downwards. By inducing external pressure on a segment of membrane, the balance of positive pressure is shifted to other part of the same membrane and/or to the other membrane(s). This should result in a movement at this and/or the other membrane(s) when the system is adequately sealed and the membrane(s) are intact. Absence of such movement or rebound of the membrane indicates lack of adequate seal or lack of membrane integrity.); and when applicable,

      ii. verify the presence of negative pressure on the EED membrane(s) during an evacuation/purge cycle (Negative pressure is demonstrated by movement of the membrane(s) toward the electroplating solution. The absence of inward movement of the membrane(s) during evacuation indicates lack of adequate seal or lack of membrane integrity.);

   b. beginning on the date of the initial performance test, the permittee shall record the results of the daily EED integrity testing.

      Operation of the emissions unit with the lack of adequate seals or membrane integrity shall constitute noncompliance with the standards.

2. The permittee shall fulfill all record keeping requirements in the General Provisions to 40 CFR Part 63, according to the applicability of Subpart A.

3. The permittee shall maintain the following records:

   a. inspection records for the EEDs 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, and any actions taken to correct deficiencies found during the inspection.);

   b. records of all maintenance performed on the emissions unit, EEDs, and monitoring equipment;

   c. records of the occurrence, duration, and cause (if known) of each malfunction of process, EEDs, 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 consistency with the provisions of the operation and maintenance plan;

   f. test reports documenting results of all performance tests;

   g. all measurements as may be necessary to determine the conditions of performance tests;

   h. records of monitoring data, including those required in 1.b above, that are used to demonstrate compliance with the standard including the data 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, EEDs, or monitoring equipment;

   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, EEDs, or monitoring equipment;

   k. the total process operating time of the emissions unit during the reporting period; and,

   l. all documentation supporting the notifications and reports as outlined in the Reporting Requirements of this permit and sections 63.9 and 63.10 of 40 CFR Part 63, Subpart A.

4. All records 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 recordings for continuous monitoring instrumentation, and copies of all reports required by the permit. Such records may be maintained in computerized form.

D. Reporting Requirements

1. The permittee shall fulfill all reporting requirements as outlined in 40 CFR Part 63, Subpart A. These reports shall be made to the Regional Air Pollution Control Agency and shall be sent 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 Regional Air Pollution Control Agency on or before the specified date.

2. The permittee shall submit to the Regional Air Pollution Control Agency an initial notification report that contains the following information:

   a. the date when construction or reconstruction was commenced, no later than 30 calendar days after such date; and,

   b. the actual date of startup of the emissions unit 30 calendar days after such date.

3. The permittee shall submit a Notification of Performance Test to the Regional Air Pollution Control Agency at least 60 calendar days before the performance test is scheduled. In the event that the permittee is unable to conduct the performance test as scheduled, the provisions of 40 CFR Part 63, Subpart A, Section 63.7 (b)(2), shall apply.

4. The permittee shall report to the Regional Air Pollution Control Agency the results of any performance test conducted. The report shall be submitted no later than 90 days following the completion of the performance test.

5. The permittee shall submit a Notification of Compliance Status to the Regional Air Pollution Control Agency 90 days after the performance test is completed, signed by the responsible official who shall certify its accuracy, attesting to whether the affected emissions unit is in compliance. The notification shall list for each emissions unit:

   a. the applicable emission limitations and the methods that were used to determined

compliance with this limitation;

b. the test report documenting the results of the performance test, which includes the elements required in the Test Requirements section of this permit;

c. for each monitored parameter for which a compliant value was established, the specific operating parameter value, or range of values, that corresponds to compliance with the applicable emission limit;

d. the methods that will be used to determine continuous compliance;

e. a description of the air pollution control technique used for each emission point;

f. a statement that the permittee has completed and has on file the operation and maintenance plan as required by the work practice standards; and,

g. a statement by the owner or operator as to whether the emissions unit is in compliance.

6. The permittee shall prepare an ongoing compliance status report annually (unless a request to reduce frequency of ongoing compliance status reports has been approved) to the Regional Air Pollution Control Agency 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 determined by the most recent performance test;

d. a description of the type of process performed in the emissions unit;

e. the beginning and ending dates of the reporting period;

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 known 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 accuracy of the report; and

l. the date of the report.

7. The permittee shall submit semiannual reports if the following conditions 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 air pollution control device and monitoring equipment is 5 percent or greater of the total operating time.

8. Once the permittee reports an exceedance meeting the criterion in D.5 above, ongoing compliance status reports shall be submitted semiannually.

9. The Regional Air Pollution Control Agency may determine on a case-by-case basis that the summary report shall be completed more frequently and submitted instead of being retained on site, if these measures are necessary to accurately assess the compliance status of the emissions unit.

10. The permittee who is required to submit ongoing compliance status reports on a semiannual (or more frequent) basis, or is required to submit its annual report instead of retaining it on site, may reduce the frequency of reporting to annual and/or be allowed to maintain the annual report on site once 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 record keeping and monitoring requirements of 40 CFR Part 63, Subpart A and this permit; and,

    c. the Regional Air Pollution Control Agency does not object to a reduced reporting frequency. The frequency of submitting ongoing compliance status reports may be reduced if the following requirements are met:

       i. the permittee notifies the Regional Air Pollution Control Agency in writing of its intentions to make such a change (The Regional Air Pollution Control Agency may review information concerning the facility's previous performance history during the 5-year record keeping period prior to the intended change, or the record keeping period since the emissions 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 Regional Air Pollution Control Agency will notify the permittee in writing within 45 days after receiving notice. In the absence of a notice of disapproval within 45 days, approval is automatically granted.); and,

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.

11. The permittee shall submit a notification of reconstruction as soon as practicable before the reconstruction has commenced to the Regional Air Pollution Control Agency 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 units if different from the permittee's;

c. a notification of intention to 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 CR 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 reconstruction;

f. the anticipated date of the reconstructed unit's 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; and,

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.

12. The permittee shall notify the Regional Air Pollution Control Agency of any daily compliance test record which indicates the lack of adequate seals or membrane integrity. The notification shall include a copy of such record and shall be sent to the Regional Air Pollution Control Agency within 90 days after the test date.

E. Testing Requirements

1. Compliance with the emission limitation(s) in this permit shall be determined in accordance with the following method(s):

   a. Emission Limitation:

   0.015 mg/dscm (6.6 x 10^-06 gr/dscf)

   Applicable Compliance Method:

   i. Compliance shall be initially demonstrated through a qualitative performance test method as outlined and approved in USEPA's letter of August 9, 1996, addressed to Techmetals, Incorporated, and outlined as follows:

   A smoke generating device, capable of generating 500 to 1000 cubic feet of smoke per 20 square feet of tank surface area, shall be placed in a small container. The small container shall be placed on a stable and flat area at the center of the EED. Upon lighting the smoke device, the access door to the tank shall be quickly closed to avoid smoke from escaping. The smoke device shall be allowed to completely burn, filling the space under the EED. Once the area under the EED is filled with smoke, each seal, joint, and membrane of the EED shall be checked, from the outside, for signs of smoke leaking through.

   Any observed leaks in the EED shall be considered indications of noncompliance with the Chrome Plating NESHAP.

   When all seals, joints, and membranes have been observed, the evacuation unit shall be turned on to remove the smoke from the EED.

   After initial performance testing of the emissions unit has been completed, future performance testing of this type shall be completed at the request of the Regional Air Pollution Control Agency.

   and:

   ii. Compliance shall be demonstrated on a daily basis, on each day the emissions unit is in use, through the testing as described in Section C.1. Should the daily demonstration indicate a lack of an adequate seal, or lack of membrane integrity, the emissions unit shall be considered to be operating in noncompliance with the

standard.

2. Performance test results shall be documented in complete test reports that contain the following information:

   a. a brief process description;

   b. sampling location description(s);

   c. a description of sampling and analytical procedures and any modifications to standard procedures;

   d. test results;

   e. any other information required by the test method.

3. The permittee may use a performance test to demonstrate compliance if:

   a. the test methods and procedures identified in this permit were used during the performance test;

   b. the performance test was conducted under representative operating conditions;

   c. the performance test report contains the elements of paragraph E.2.a. through E.2.i. in this section; and,

   d. the permittee has sufficient data to establish the operating parameter value that corresponds to compliance as required for continuous compliance monitoring.

F. Miscellaneous Requirements

None

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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
P004 - hard chromium electroplating process tank with composite mesh pad and fume suppressant with a wetting agent; 140-CR1	OAC rule 3745-31-05(A)(3)	Application of a composite mesh pad and a fume suppressant with a wetting agent.
	40 CFR Part 63, Subpart N	The permittee shall not allow the concentration of total chromium in the exhaust gases discharged to the atmosphere to exceed 0.015 milligrams of total chromium per dry standard cubic meter ("mg/dscm") of ventilation air (6.6 x 10^-06 grains per dry standard cubic foot ["gr/dscf"]).

2. Additional Terms and Conditions

2.a None

B. Operational Restrictions

1. 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 control devices and monitoring equipment, in a manner consistent with the operation and maintenance plan required by these terms and conditions.

2. Malfunctions shall be corrected as soon as practicable after their occurance in accordance with the operation and maintenance plan.

3. Determination of whether acceptable operation and maintenance procedures are being used will be based on information available to the Regional Air Pollution Control Agency, which may include, but is not limited to, monitoring results; review of the operation and maintenance plan, procedures, and records; and inspection of the emission unit. Based on this information, the Regional Air Pollution Control Agency 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 emission 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.

4. The permittee shall prepare an operation and maintenance plan to be implemented upon startup. 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. the O/M plan shall incorporate the following work practice standards:

      i. visually inspect the device at least once per quarter to ensure there is proper drainage, no chromic acid buildup on the pads, and no evidence of chemical attack on the structural integrity of the device;

      ii. visually inspect at least once per quarter the back portion of the mesh pad closest to the fan to ensure there is no breakthrough of chromic acid mist;

      iii. visually inspect at least once per quarter the ductwork from tank to the control device to ensure there are no leaks;

      iv. perform washdown of the composite mesh-pads in accordance with the manufacturer's recommendations;

      v. if a pitot tube is used for monitoring, the O/M plan shall incorporate the following

work practice standards to be performed at least once per quarter:

(a) backflush with water, or remove from the duct and rinse with fresh water;

(b) replace in the duct and rotate 180 degrees to ensure that the same zero reading is obtained; and,

(c) check pitot tube ends for damage. Replace pitot tube if cracked or fatigued.

vi. 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 Regional Air Pollution Control Agency;

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 Regional Air Pollution Control Agency for the life of the emission 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 Regional Air Pollution Control Agency for a period of five years after each revision to the plan; and,

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.

5. The permittee shall maintain a maximum surface tension of 45 dynes/cm for the wetting agent-type fume suppressants.

C. Monitoring and/or Recordkeeping Requirements

1. Composite mesh-pad (CMP) system monitoring requirements to demonstrate continuous compliance

   a. during the initial performance test, the permittee shall determine the outlet chromium concentration using the methods as described in the "Testing Requirements" section of this permit to comply with the emission limitations through the use of a composite mesh-pad system. The permittee shall establish as a site-specific operating parameter the pressure drop across the system, setting the value that corresponds to compliance with the applicable emission limitation, using the procedures in Section C.2. of this permit;

   b. the permittee may conduct multiple performance tests to establish a range of compliant pressure drop values, or may set as the compliance value the average pressure drop measured over the three test runs of one performance test and accept ±1 inch of water column from this value as the compliant range; and,

   c. on and after the date on which the initial performance test is required to be completed under Section 63.7 of 40 CFR Part 63, Subpart A, the permittee shall monitor and record the pressure drop across the composite mesh-pad system once each day that the emission unit is operating. To be in compliance, the composite mesh-pad system shall be operated within ±1 inch of water column of the pressure drop value established during the initial performance test, or shall be operated within the range of compliant values for pressure drop established during multiple performance tests.

2. All monitoring equipment shall be installed such that representative measurements of emissions or process parameters from the affected emissions unit are obtained. For monitoring equipment purchased from a vendor, verification of the operational status of the monitoring equipment shall include execution of the manufacturer's written specifications or recommendations for installation, operation, and calibration of the system. Specifications for differential pressure measurement devices used to measure pressure drop across a control system shall be in accordance with the manufacturer's accuracy specifications.

3. The permittee shall measure the pressure drop across the composite mesh pad in accordance with the following guidelines:

   a. pressure taps shall be installed at any of the following locations:

      i. at the inlet and outlet of the control system. The inlet tap should be installed in the

ductwork just prior to the control device and the corresponding outlet pressure tap should be installed on the outlet side of the control device prior to the blower or on the downstream side of the blower;

ii. on each side of each mesh pad within the control system; and,

iii. on the front side of the first mesh pad and back side of the last mesh pad within the control system.

b. pressure taps shall be sited at locations that are:

i. as free from pluggage as possible and away from any flow disturbances such as cyclonic demisters; and,

ii. situated such that no air infiltration at the measurement site will occur that could bias the measurement.

c. pressure taps shall be constructed of either polyethylene, polybutylene, or other nonreactive materials;

d. nonreactive plastic tubing shall be used to connect the pressure taps to the device used to measure pressure drop;

e. any of the following pressure gauges can be used to monitor pressure drop: a magnehelic gauge, an included manometer, or a "U" tube manometer; and,

f. prior to connecting any pressure lines to the pressure gauge(s), each gauge shall be zeroed. No calibration of the pressure gauges is required.

4. Wetting agent-type fume suppressants monitoring requirements to demonstrate continuous compliance

a. during the initial performance test, the permittee shall determine the outlet chromium concentration using the procedures described in the "Testing Requirements" section of this permit to comply with the emission limitation through the use of a wetting agent-type fume suppressant. The permittee shall establish as the site-specific operating parameter the surface tension of the bath using Method 306B of 40 CFR Part 63, Subpart N, setting the maximum value that corresponds to compliance with the applicable emission limitations. In lieu of establishing the maximum surface tension during the performance

test, the owner or operator may accept 45 dynes/cm as the maximum surface tension value that corresponds to compliance with the applicable emission limitation; and,

b. on and after the date on which the initial performance test is required to be completed under §63.7 of 40 CFR Part 63, Subpart A, the permittee shall monitor the surface tension of the electroplating or anodizing bath. Operation of the affected emissions unit at a surface tension greater than the value established during the performance test, or greater than 45 dynes/cm if the permittee is using this value as the maximum surface tension value, may constitute noncompliance with the standards.

5. 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, 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 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 (ii) 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 (ii) above.

6. The permittee shall fulfill all recordkeeping requirements in the General Provisions to 40 CFR Part 63, according to the applicability of subpart A.

7. 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, 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;

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;

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 Sections 63.9 and 63.10 of 40 CFR Part 63, subpart A; and,

m. records of the date and time that fume suppressants are added to the electroplating or anodizing bath.

8. 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 made to the Regional Air Pollution Control Agency and shall be sent 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; and,

   b. submittals sent by other methods shall be received by the Regional Air Pollution Control Agency on or before the specified date.

2. The permittee shall submit to Regional Air Pollution Control Agency an initial notification report that contains the following information:

   a. the date when construction or reconstruction was commenced, no later than 30 calendar days after such date; and,

   b. the actual date of startup of the emissions unit within 30 calendar days after such date.

3. The permittee shall submit a Notification of Performance Test to the Regional Air Pollution Control Agency at least 60 calendar days before the performance test is scheduled. In the event that the permittee is unable to conduct the performance as scheduled, the provisions of Section 63.7(B)(2) pf 40 CFR Part 63, Subpart A apply.

4. The permittee shall report to the Regional Air Pollution Control Agency 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 submit a Notification of Compliance Status to the Regional Air Pollution Control Agency 90 days after the performance test is completed, signed by the responsible official who shall certify its accuracy, attesting to whether the affected emissions unit is in compliance. The notification shall list for each affected emissions unit:

   a. the applicable emission limitations and the methods there were used to determine compliance with this limitation;

   b. the test report documenting the results of the performance test, which includes the

elements required in the Test Requirements section of this permit, including measurements and calculations to support special compliance provisions for multiple emissions units controlled by a common add-on air pollution control device;

c. for each monitored parameter for which a compliant value was established, the specific operating parameter value, or range of values, that corresponds to compliance with the applicable emission limit;

d. the methods that will be used to determine continuous compliance;

e. a description of the air pollution control technique used for each emission point;

f. a statement that the permittee has completed and has on file the operation and maintenance plan as required by the work practice standards; and,

g. a statement by the owner or operator as to whether the emissions unit is in compliance.

6. The permittee shall prepare an ongoing compliance status report annually (unless a request to reduce frequency of ongoing compliance status reports has been approved) to the Regional Air Pollution Control Agency 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. the total operating time of the emissions unit during the reporting period;

f. 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;

g. 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;

h. 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;

i. a description of any changes in monitoring, processes, or controls since the last reporting period;

j. the name, title, and signature of the responsible official who is certifying the accuracy of the report; and,

k. the date of the report.

7. The permittee shall submit semiannual reports if the following conditions 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.

8. Once the permittee reports an exceedance, ongoing compliance status reports shall be submitted semiannually until a request to reduce reporting frequency is approved.

9. The Regional Air Pollution Control Agency 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 emissions unit.

10. The permittee who is required to submit ongoing compliance status reports on a semiannual (or more frequent) basis, or is required to submit its annual report instead of retaining it on site, may reduce the frequency of reporting to annual and/or be allowed to maintain the annual report 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 Regional Air Pollution Control Agency does not object to a reduced reporting frequency. The frequency of submitting ongoing compliance status reports may be reduced if the following requirements are met:

       i. the permittee notifies the Regional Air Pollution Control Agency in writing of its intentions to make such a change. The Regional Air Pollution Control Agency 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 Regional Air Pollution Control Agency 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; and,

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.

11. The permittee shall submit a notification of construction or reconstruction as soon as practicable before the construction or reconstruction has commenced to the appropriate Ohio EPA District Office or local air agency 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; and,

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.

E. Testing Requirements

1. Compliance with the emission limitation(s) in this permit shall be determined in accordance with the following method(s):

   a. Emission Limitation:

      0.015 mg/dscm (6.6 x 10^-06 gr/dscf)

      Applicable Compliance Method:

      i. The permittee shall use the following test methods to conduct an initial performance test:

         Method 306 or Method 306A, "Determination of Chromium Emissions From Decorative and Hard Chromium Electroplating and Anodizing Operations" shall be used to determine the chromium concentration from hard or decorative chromium electroplating tanks or chromium anodizing tanks.

         (a) the sampling time and sample volume for each run of Methods 306 and 306A shall be at least 120 minutes and 1.7 dscm (60 dscf), respectively; and

         (b) Methods 306 and 306A allow the measurement of either total chromium or hexavalent chromium emissions. Emissions units using chromic acid baths can demonstrate compliance with the emission limits by measuring either the total chromium or hexavalent chromium concentration. Hence, the hexavalent chromium concentration measured by these methods is equal to the total chromium concentration for the affected operations.

      ii. The California Air Resources Board (CARB) Method 425 may be used to determine the chromium concentration from hard and decorative chromium electroplating tanks and chromium anodizing tanks if the following conditions are met:

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

         (b) if an Atomic Absorption Graphite Furnace (AAGF) or Ion

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

(c) a minimum of three separate runs must be conducted. The other requirements of Section 63.7 of 40 CFR Part 63, subpart A must also be met.

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

2. Performance test results shall be documented in complete test reports that contain the following information:

a. a brief process description;

b. sampling location description(s);

c. a description of sampling and analytical procedures and any modifications to standard procedures;

d. test results;

e. quality assurance procedures and results;

f. records of operating conditions during testing, preparation of standards, and calibration procedures;

g. raw data sheets for field sampling and field and laboratory analyses;

h. documentation of calculations; and,

i. any other information required by the test method.

3. The results of such testing may be used to demonstrate compliance if:

a. the test methods and procedures identified in this permit were used during the performance test;

b. the performance test was conducted under representative operating conditions;

c. the performance test report contains the elements of paragraph E.2.a. through E.2.i. in this section; and,

d. the permittee has sufficient data to establish the operating parameter value that corresponds to compliance as required for continuous compliance monitoring.

F. Miscellaneous Requirements

None

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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
P005 - hard chromium electroplating process tank with emission elimination device (EED); 150-CR1	OAC rule 3745-31-05(A)(3)	Application of an emission elimination device ("EED"), an alternative control technology.
	40 CFR Part 63, Subpart N	The permittee shall not allow the concentration of total chromium in the exhaust gases discharged to the atmosphere to exceed 0.015 milligrams of total chromium per dry standard cubic meter ("mg/dscm") of ventilation air (6.6 x 10^-06 grains per dry standard cubic foot ["gr/dscf"]).

2. Additional Terms and Conditions

2.a None

B. Operational Restrictions

1. At all times, including periods of startup, shutdown, and malfunction, the permittee shall operate and maintain any chromium electroplating or anodizing tank, including associated emission elimination devices (EEDs) and monitoring equipment, in a manner consistent with the operation and maintenance plan required by these terms and conditions.

2. Malfunctions shall be corrected as soon as practicable after their occurrence in accordance with the operation and maintenance plan.

3. Determination of whether acceptable operation and maintenance procedures are being used will be based on information available to the Regional Air Pollution Control Agency, which may include, but is not limited to, monitoring results; review of the operation and maintenance plan, procedures, and records; and inspection of the emission unit. Based on this information, the Regional Air Pollution Control Agency 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 control practices; or,

   c. does not provide adequate procedures for correcting malfunctioning process equipment, air pollution control techniques, or monitoring equipment as quickly as possible.

4. The permittee shall prepare an operation and maintenance plan to be implemented upon startup. The plan shall include the following elements:

   a. the operation and maintenance criteria for the affected source, the EEDs , and the process and control system monitoring equipment, and shall include a standardized checklist to document the operation and maintenance of the equipment;

   b. work practice standards for the EEDs as outlined in the USEPA approval letter dated September 4, 1996, resulting from a submittal required under section 63.342 (f)(3)(c) and section 63.343 (d) of 40 CFR Part 63, Subpart N, for an air pollution control device not listed. These work practice standards shall include the following:

      i. drain the air-inlet (purge air) valves at the end of each day that the tanks are in operation;

      ii. perform weekly visual inspections of access door seals and membranes on the EED for integrity;

      iii. drain the evacuation units, weekly, into the plating tank or into the rinse tanks (for recycle into the plating tank);

      iv. perform monthly visual inspections of membranes for perforations using a light source that adequately illuminates the membrane (e.g., Grainger model No. 6X971 Fluorescent Hand Lamp);

v. perform monthly visual inspections of all clamps for proper operation and replace as needed;

vi. monthly cleaning or replacement of filters on the evacuation unit;

vii. perform quarterly inspections of the evacuation unit and the piping to and from the unit to ensure that there are no leaks and no evidence of chemical attack; and,

viii. replace access door seals, membranes evacuation unit filters, and purge air inlet check valves in accordance with manufacturer's recommendations.

c. procedures to be followed to ensure that equipment or process malfunctions due to poor maintenance or other preventable conditions do not occur;

d. a systematic procedure for identifying malfunctions of process equipment, EEDs, 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 malfunctions 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 the 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 Regional Air Pollution Control Agency.);

g. the permittee shall keep the written operation and maintenance plan on record, and it shall be made available for inspection upon request by the Regional Air Pollution Control Agency 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 Regional Air Pollution Control Agency, for a period of five years after each revision to the plan.); and,

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 follow the continuous compliance monitoring program as outlined in the USEPA approval letter of September 4, 1996, including the following:

   a. beginning on the date of the initial performance test, the permittee shall monitor the continued integrity of the EED seals and membranes using the following methods (Compliance monitoring shall occur once each day that the affected source is operating using both of the following methods, unless no evacuation/purge cycle is performed. The absence of the evacuation/purge cycle shall be recorded and only the first method shall be used to determine compliance on that day.);

      i. verify the positive pressure on the EED membrane(s) when the electroplating tank is in operation and parts are being plated by inducing an external pressure to the membrane, which should be bulged slightly upward (This can be done by manually tapping the membrane downwards. By inducing external pressure on a segment of membrane, the balance of positive pressure is shifted to other part of the same membrane and/or to the other membrane(s). This should result in a movement at this and/or the other membrane(s) when the system is adequately sealed and the membrane(s) are intact. Absence of such movement or rebound of the membrane indicates lack of adequate seal or lack of membrane integrity.); and when applicable,

      ii. verify the presence of negative pressure on the EED membrane(s) during an evacuation/purge cycle (Negative pressure is demonstrated by movement of the membrane(s) toward the electroplating solution. The absence of inward movement of the membrane(s) during evacuation indicates lack of adequate seal or lack of membrane integrity.);

   b. beginning on the date of the initial performance test, the permittee shall record the results of the daily EED integrity testing.

      Operation of the emissions unit with the lack of adequate seals or membrane integrity shall constitute noncompliance with the standards.

2. The permittee shall fulfill all record keeping requirements in the General Provisions to 40 CFR Part 63, according to the applicability of Subpart A.

3. The permittee shall maintain the following records:

a. inspection records for the EEDs 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, and any actions taken to correct deficiencies found during the inspection.);

b. records of all maintenance performed on the emissions unit, EEDs, and monitoring equipment;

c. records of the occurrence, duration, and cause (if known) of each malfunction of process, EEDs, 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 consistency with the provisions of the operation and maintenance plan;

f. test reports documenting results of all performance tests;

g. all measurements as may be necessary to determine the conditions of performance tests;

h. records of monitoring data, including those required in 1.b above, that are used to demonstrate compliance with the standard including the data 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, EEDs, or monitoring equipment;

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, EEDs, or monitoring equipment;

k. the total process operating time of the emissions unit during the reporting period; and,

l. all documentation supporting the notifications and reports as outlined in the Reporting Requirements of this permit and sections 63.9 and 63.10 of 40 CFR Part 63, Subpart A.

4. All records 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 recordings for continuous monitoring instrumentation, and copies of all reports required by the permit. Such records may be maintained in computerized form.

D. Reporting Requirements

1. The permittee shall fulfill all reporting requirements as outlined in 40 CFR Part 63, Subpart A. These reports shall be made to the Regional Air Pollution Control Agency and shall be sent 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 Regional Air Pollution Control Agency on or before the specified date.

2. The permittee shall submit to the Regional Air Pollution Control Agency an initial notification report that contains the following information:

   a. the date when construction or reconstruction was commenced, no later than 30 calendar days after such date; and,

   b. the actual date of startup of the emissions unit 30 calendar days after such date.

3. The permittee shall submit a Notification of Performance Test to the Regional Air Pollution Control Agency at least 60 calendar days before the performance test is scheduled. In the event that the permittee is unable to conduct the performance test as scheduled, the provisions of 40 CFR Part 63, Subpart A, Section 63.7 (b)(2), shall apply.

4. The permittee shall report to the Regional Air Pollution Control Agency the results of any performance test conducted. The report shall be submitted no later than 90 days following the completion of the performance test.

5. The permittee shall submit a Notification of Compliance Status to the Regional Air Pollution Control Agency 90 days after the performance test is completed, signed by the responsible official who shall certify its accuracy, attesting to whether the affected emissions unit is in compliance. The notification shall list for each emissions unit:

   a. the applicable emission limitations and the methods that were used to determined compliance with this limitation;

b. the test report documenting the results of the performance test, which includes the elements required in the Test Requirements section of this permit;

c. for each monitored parameter for which a compliant value was established, the specific operating parameter value, or range of values, that corresponds to compliance with the applicable emission limit;

d. the methods that will be used to determine continuous compliance;

e. a description of the air pollution control technique used for each emission point;

f. a statement that the permittee has completed and has on file the operation and maintenance plan as required by the work practice standards; and,

g. a statement by the owner or operator as to whether the emissions unit is in compliance.

6. The permittee shall prepare an ongoing compliance status report annually (unless a request to reduce frequency of ongoing compliance status reports has been approved) to the Regional Air Pollution Control Agency 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 determined by the most recent performance test;

d. a description of the type of process performed in the emissions unit;

e. the beginning and ending dates of the reporting period;

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 known 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 accuracy of the report; and

l. the date of the report.

7. The permittee shall submit semiannual reports if the following conditions 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 air pollution control device and monitoring equipment is 5 percent or greater of the total operating time.

8. Once the permittee reports an exceedance meeting the criterion in D.5 above, ongoing compliance status reports shall be submitted semiannually.

9. The Regional Air Pollution Control Agency may determine on a case-by-case basis that the summary report shall be completed more frequently and submitted instead of being retained on site, if these measures are necessary to accurately assess the compliance status of the emissions unit.

10. The permittee who is required to submit ongoing compliance status reports on a semiannual (or more frequent) basis, or is required to submit its annual report instead of retaining it on site, may reduce the frequency of reporting to annual and/or be allowed to maintain the annual report on site once 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 record keeping and monitoring requirements of 40 CFR Part 63, Subpart A and this permit; and,

    c. the Regional Air Pollution Control Agency does not object to a reduced reporting frequency. The frequency of submitting ongoing compliance status reports may be reduced if the following requirements are met:

       i. the permittee notifies the Regional Air Pollution Control Agency in writing of its intentions to make such a change (The Regional Air Pollution Control Agency may review information concerning the facility's previous performance history during the 5-year record keeping period prior to the intended change, or the record keeping period since the emissions 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 Regional Air

Pollution Control Agency will notify the permittee in writing within 45 days after receiving notice. In the absence of a notice of disapproval within 45 days, approval is automatically granted.); and,

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.

11. The permittee shall submit a notification of reconstruction as soon as practicable before the reconstruction has commenced to the Regional Air Pollution Control Agency 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 units if different from the permittee's;

c. a notification of intention to 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 CR 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 reconstruction;

f. the anticipated date of the reconstructed unit's 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; and,

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.

12. The permittee shall notify the Regional Air Pollution Control Agency of any daily compliance test record which indicates the lack of adequate seals or membrane integrity. The notification shall include a copy of such record and shall be sent to the Regional Air Pollution Control Agency within 90 days after the test date.

E. Testing Requirements

1. Compliance with the emission limitation(s) in this permit shall be determined in accordance with the following method(s):

   a. Emission Limitation:

      0.015 mg/dscm (6.6 x 10^-06 gr/dscf)

      Applicable Compliance Method:

      i. Compliance shall be initially demonstrated through a qualitative performance test method as outlined and approved in USEPA's letter of August 9, 1996, addressed to Techmetals, Incorporated, and outlined as follows:

         A smoke generating device, capable of generating 500 to 1000 cubic feet of smoke per 20 square feet of tank surface area, shall be placed in a small container. The small container shall be placed on a stable and flat area at the center of the EED. Upon lighting the smoke device, the access door to the tank shall be quickly closed to avoid smoke from escaping. The smoke device shall be allowed to completely burn, filling the space under the EED. Once the area under the EED is filled with smoke, each seal, joint, and membrane of the EED shall be checked, from the outside, for signs of smoke leaking through.

         Any observed leaks in the EED shall be considered indications of noncompliance with the Chrome Plating NESHAP.

         When all seals, joints, and membranes have been observed, the evacuation unit shall be turned on to remove the smoke from the EED.

         After initial performance testing of the emissions unit has been completed, future performance testing of this type shall be completed at the request of the Regional Air Pollution Control Agency.

         and:

      ii. Compliance shall be demonstrated on a daily basis, on each day the emissions unit is in use, through the testing as described in Section C.1. Should the daily demonstration indicate a lack of an adequate seal, or lack of membrane integrity,

the emissions unit shall be considered to be operating in noncompliance with the standard.

2. Performance test results shall be documented in complete test reports that contain the following information:

   a. a brief process description;

   b. sampling location description(s);

   c. a description of sampling and analytical procedures and any modifications to standard procedures;

   d. test results;

   e. any other information required by the test method.

3. The permittee may use a performance test to demonstrate compliance if:

   a. the test methods and procedures identified in this permit were used during the performance test;

   b. the performance test was conducted under representative operating conditions;

   c. the performance test report contains the elements of paragraph E.2.a. through E.2.i. in this section; and,

   d. the permittee has sufficient data to establish the operating parameter value that corresponds to compliance as required for continuous compliance monitoring.

F. Miscellaneous Requirements

None

Emissions Unit ID: **P006**

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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
P006 - hard chromium electroplating process tank with emission elimination devices (EED); 150-CR2	OAC rule 3745-31-05(A)(3)	Application of an emission elimination device ("EED"), an alternative control technology.
	40 CFR Part 63, Subpart N	The permittee shall not allow the concentration of total chromium in the exhaust gases discharged to the atmosphere to exceed 0.015 milligrams of total chromium per dry standard cubic meter ("mg/dscm") of ventilation air (6.6 x 10^-06 grains per dry standard cubic foot ["gr/dscf"]).

2. Additional Terms and Conditions

2.a None

B. Operational Restrictions

1. At all times, including periods of startup, shutdown, and malfunction, the permittee shall operate and maintain any chromium electroplating or anodizing tank, including associated emission elimination devices (EEDs) and monitoring equipment, in a manner consistent with the operation and maintenance plan required by these terms and conditions.

2. Malfunctions shall be corrected as soon as practicable after their occurrence in accordance with the operation and maintenance plan.

3. Determination of whether acceptable operation and maintenance procedures are being used will be based on information available to the Regional Air Pollution Control Agency, which may include, but is not limited to, monitoring results; review of the operation and maintenance plan, procedures, and records; and inspection of the emission unit. Based on this information, the Regional Air Pollution Control Agency 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 control practices; or,

   c. does not provide adequate procedures for correcting malfunctioning process equipment, air pollution control techniques, or monitoring equipment as quickly as possible.

4. The permittee shall prepare an operation and maintenance plan to be implemented upon startup. The plan shall include the following elements:

   a. the operation and maintenance criteria for the affected source, the EEDs , and the process and control system monitoring equipment, and shall include a standardized checklist to document the operation and maintenance of the equipment;

   b. work practice standards for the EEDs as outlined in the USEPA approval letter dated September 4, 1996, resulting from a submittal required under section 63.342 (f)(3)(c) and section 63.343 (d) of 40 CFR Part 63, Subpart N, for an air pollution control device not listed. These work practice standards shall include the following:

      i. drain the air-inlet (purge air) valves at the end of each day that the tanks are in operation;

      ii. perform weekly visual inspections of access door seals and membranes on the EED for integrity;

      iii. drain the evacuation units, weekly, into the plating tank or into the rinse tanks (for recycle into the plating tank);

      iv. perform monthly visual inspections of membranes for perforations using a light source that adequately illuminates the membrane (e.g., Grainger model No. 6X971 Fluorescent Hand Lamp);

v. perform monthly visual inspections of all clamps for proper operation and replace as needed;

vi. monthly cleaning or replacement of filters on the evacuation unit;

vii. perform quarterly inspections of the evacuation unit and the piping to and from the unit to ensure that there are no leaks and no evidence of chemical attack; and,

viii. replace access door seals, membranes evacuation unit filters, and purge air inlet check valves in accordance with manufacturer's recommendations.

c. procedures to be followed to ensure that equipment or process malfunctions due to poor maintenance or other preventable conditions do not occur;

d. a systematic procedure for identifying malfunctions of process equipment, EEDs, 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 malfunctions 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 the 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 Regional Air Pollution Control Agency.);

g. the permittee shall keep the written operation and maintenance plan on record, and it shall be made available for inspection upon request by the Regional Air Pollution Control Agency 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 Regional Air Pollution Control Agency, for a period of five years after each revision to the plan.); and,

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 follow the continuous compliance monitoring program as outlined in the USEPA approval letter of September 4, 1996, including the following:

   a. beginning on the date of the initial performance test, the permittee shall monitor the continued integrity of the EED seals and membranes using the following methods (Compliance monitoring shall occur once each day that the affected source is operating using both of the following methods, unless no evacuation/purge cycle is performed. The absence of the evacuation/purge cycle shall be recorded and only the first method shall be used to determine compliance on that day.);

      i. verify the positive pressure on the EED membrane(s) when the electroplating tank is in operation and parts are being plated by inducing an external pressure to the membrane, which should be bulged slightly upward (This can be done by manually tapping the membrane downwards. By inducing external pressure on a segment of membrane, the balance of positive pressure is shifted to other part of the same membrane and/or to the other membrane(s). This should result in a movement at this and/or the other membrane(s) when the system is adequately sealed and the membrane(s) are intact. Absence of such movement or rebound of the membrane indicates lack of adequate seal or lack of membrane integrity.); and when applicable,

      ii. verify the presence of negative pressure on the EED membrane(s) during an evacuation/purge cycle (Negative pressure is demonstrated by movement of the membrane(s) toward the electroplating solution. The absence of inward movement of the membrane(s) during evacuation indicates lack of adequate seal or lack of membrane integrity.);

   b. beginning on the date of the initial performance test, the permittee shall record the results of the daily EED integrity testing.

      Operation of the emissions unit with the lack of adequate seals or membrane integrity shall constitute noncompliance with the standards.

2. The permittee shall fulfill all record keeping requirements in the General Provisions to 40 CFR Part 63, according to the applicability of Subpart A.

3. The permittee shall maintain the following records:

   a. inspection records for the EEDs 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, and any actions taken to correct deficiencies found during the inspection.);

   b. records of all maintenance performed on the emissions unit, EEDs, and monitoring equipment;

   c. records of the occurrence, duration, and cause (if known) of each malfunction of process, EEDs, 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 consistency with the provisions of the operation and maintenance plan;

   f. test reports documenting results of all performance tests;

   g. all measurements as may be necessary to determine the conditions of performance tests;

   h. records of monitoring data, including those required in 1.b above, that are used to demonstrate compliance with the standard including the data 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, EEDs, or monitoring equipment;

   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, EEDs, or monitoring equipment;

   k. the total process operating time of the emissions unit during the reporting period; and,

   l. all documentation supporting the notifications and reports as outlined in the Reporting Requirements of this permit and sections 63.9 and 63.10 of 40 CFR Part 63, Subpart A.

4. All records 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 recordings for continuous monitoring instrumentation, and copies of all reports required by the permit. Such records may be maintained in computerized form.

D. Reporting Requirements

1. The permittee shall fulfill all reporting requirements as outlined in 40 CFR Part 63, Subpart A. These reports shall be made to the Regional Air Pollution Control Agency and shall be sent 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 Regional Air Pollution Control Agency on or before the specified date.

2. The permittee shall submit to the Regional Air Pollution Control Agency an initial notification report that contains the following information:

   a. the date when construction or reconstruction was commenced, no later than 30 calendar days after such date; and,

   b. the actual date of startup of the emissions unit 30 calendar days after such date.

3. The permittee shall submit a Notification of Performance Test to the Regional Air Pollution Control Agency at least 60 calendar days before the performance test is scheduled. In the event that the permittee is unable to conduct the performance test as scheduled, the provisions of 40 CFR Part 63, Subpart A, Section 63.7 (b)(2), shall apply.

4. The permittee shall report to the Regional Air Pollution Control Agency the results of any performance test conducted. The report shall be submitted no later than 90 days following the completion of the performance test.

5. The permittee shall submit a Notification of Compliance Status to the Regional Air Pollution Control Agency 90 days after the performance test is completed, signed by the responsible official who shall certify its accuracy, attesting to whether the affected emissions unit is in compliance. The notification shall list for each emissions unit:

a. the applicable emission limitations and the methods that were used to determined compliance with this limitation;

b. the test report documenting the results of the performance test, which includes the elements required in the Test Requirements section of this permit;

c. for each monitored parameter for which a compliant value was established, the specific operating parameter value, or range of values, that corresponds to compliance with the applicable emission limit;

d. the methods that will be used to determine continuous compliance;

e. a description of the air pollution control technique used for each emission point;

f. a statement that the permittee has completed and has on file the operation and maintenance plan as required by the work practice standards; and,

g. a statement by the owner or operator as to whether the emissions unit is in compliance.

6. The permittee shall prepare an ongoing compliance status report annually (unless a request to reduce frequency of ongoing compliance status reports has been approved) to the Regional Air Pollution Control Agency 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 determined by the most recent performance test;

d. a description of the type of process performed in the emissions unit;

e. the beginning and ending dates of the reporting period;

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 known 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 accuracy of the report; and

l. the date of the report.

7. The permittee shall submit semiannual reports if the following conditions 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 air pollution control device and monitoring equipment is 5 percent or greater of the total operating time.

8. Once the permittee reports an exceedance meeting the criterion in D.5 above, ongoing compliance status reports shall be submitted semiannually.

9. The Regional Air Pollution Control Agency may determine on a case-by-case basis that the summary report shall be completed more frequently and submitted instead of being retained on site, if these measures are necessary to accurately assess the compliance status of the emissions unit.

10. The permittee who is required to submit ongoing compliance status reports on a semiannual (or more frequent) basis, or is required to submit its annual report instead of retaining it on site, may reduce the frequency of reporting to annual and/or be allowed to maintain the annual report on site once 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 record keeping and monitoring requirements of 40 CFR Part 63, Subpart A and this permit; and,

    c. the Regional Air Pollution Control Agency does not object to a reduced reporting frequency. The frequency of submitting ongoing compliance status reports may be reduced if the following requirements are met:

       i. the permittee notifies the Regional Air Pollution Control Agency in writing of its intentions to make such a change (The Regional Air Pollution Control Agency may review information concerning the facility's previous performance history during the 5-year record keeping period prior to the intended change, or the record keeping period since the emissions 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 Regional Air

Pollution Control Agency will notify the permittee in writing within 45 days after receiving notice. In the absence of a notice of disapproval within 45 days, approval is automatically granted.); and,

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.

11. The permittee shall submit a notification of reconstruction as soon as practicable before the reconstruction has commenced to the Regional Air Pollution Control Agency 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 units if different from the permittee's;

c. a notification of intention to 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 CR 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 reconstruction;

f. the anticipated date of the reconstructed unit's 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; and,

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.

12. The permittee shall notify the Regional Air Pollution Control Agency of any daily compliance test record which indicates the lack of adequate seals or membrane integrity. The notification shall include a copy of such record and shall be sent to the Regional Air Pollution Control Agency within 90 days after the test date.

E. Testing Requirements

1. Compliance with the emission limitation(s) in this permit shall be determined in accordance with the following method(s):

   a. Emission Limitation:

   0.015 mg/dscm (6.6 x 10^-06 gr/dscf)

   Applicable Compliance Method:

   i. Compliance shall be initially demonstrated through a qualitative performance test method as outlined and approved in USEPA's letter of August 9, 1996, addressed to Techmetals, Incorporated, and outlined as follows:

   A smoke generating device, capable of generating 500 to 1000 cubic feet of smoke per 20 square feet of tank surface area, shall be placed in a small container. The small container shall be placed on a stable and flat area at the center of the EED. Upon lighting the smoke device, the access door to the tank shall be quickly closed to avoid smoke from escaping. The smoke device shall be allowed to completely burn, filling the space under the EED. Once the area under the EED is filled with smoke, each seal, joint, and membrane of the EED shall be checked, from the outside, for signs of smoke leaking through.

   Any observed leaks in the EED shall be considered indications of noncompliance with the Chrome Plating NESHAP.

   When all seals, joints, and membranes have been observed, the evacuation unit shall be turned on to remove the smoke from the EED.

   After initial performance testing of the emissions unit has been completed, future performance testing of this type shall be completed at the request of the Regional Air Pollution Control Agency.

   and:

   ii. Compliance shall be demonstrated on a daily basis, on each day the emissions unit is in use, through the testing as described in Section C.1. Should the daily demonstration indicate a lack of an adequate seal, or lack of membrane integrity, the emissions unit shall be considered to be operating in noncompliance with the

standard.

2. Performance test results shall be documented in complete test reports that contain the following information:

   a. a brief process description;

   b. sampling location description(s);

   c. a description of sampling and analytical procedures and any modifications to standard procedures;

   d. test results;

   e. any other information required by the test method.

3. The permittee may use a performance test to demonstrate compliance if:

   a. the test methods and procedures identified in this permit were used during the performance test;

   b. the performance test was conducted under representative operating conditions;

   c. the performance test report contains the elements of paragraph E.2.a. through E.2.i. in this section; and,

   d. the permittee has sufficient data to establish the operating parameter value that corresponds to compliance as required for continuous compliance monitoring.

F. Miscellaneous Requirements

None