Facility ID: 1431370923 Issuance type: Final State Permit To Operate

This version of facility specific terms and conditions was converted from a database format to an HTML file during an upgrade of the Ohio EPA, Division of Air Pollution Control's permitting software. Every attempt has been made to convert the terms and conditions to look and substantively conform to the permit issued or being drafted in STARS. However, the format of the terms may vary slightly from the original. In addition, although it is not expected, there is a slight possibility that a term and condition may have been inadvertently "left out" of this reproduction during the conversion process. Therefore, if this version is to be used as a starting point in drafting a new version of a permit, it is imperative that the entire set of terms and conditions be reviewed to ensure they substantively mimic the issued permit. The official version of any permit issued final by Ohio EPA is kept in the Agency's Legal section. The Legal section may be contacted at (614) 644-3037.

In addition to the terms and conditions, hyperlinks have been inserted into the document so you may more readily access the section of the document you wish to review.

Finally, the term language under "Part II" and before "A. Applicable Emissions Limitations..." has been added to aid in document conversion, and was not part of the original issued permit.

Go to Part II for Emissions Unit P002
Go to Part II for Emissions Unit P004
Go to Part II for Emissions Unit P005
Go to Part II for Emissions Unit P006
Go to Part II for Emissions Unit P007

***THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION***

**Facility ID: 1431370923 Emissions Unit ID: P002 Issuance type: Final State Permit To Operate**

Go to the top of this document

**Part II - Special Terms and Conditions**

This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).

1. For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.

   (a) None.

2. For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.

   (a) None.

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

1. The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

| Operations, Property, and/or Equipment | Applicable Rules/Requirements | Applicable Emissions Limitations/Control Measures |
|---|---|---|
| Decorative Chromium Electroplating Tank | 40 CFR, Part 63, Subpart N | See A.2. |
| | OAC rule 3745-17-07(A)(1) | Visible particulate emissions shall not exceed twenty percent opacity, as a six-minute average, except as specified by rule. |
| | OAC rule 3745-17-11(B)(1) | Particulate emissions shall not exceed 0.551 pound per hour. |

2. **Additional Terms and Conditions**

   (b) The permittee shall control chromium emissions discharged to the atmosphere by not allowing the surface tension of the electroplating or anodizing bath to exceed 45 dynes per centimeter (0.0031 pound-force per foot) at any time during operation of the tank.

B. **Operational Restrictions**

1. At all times, including periods of start-up, 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 ("O/M") plan required by these terms and conditions.

2. Malfunctions shall be corrected as soon as practicable after their occurrence in accordance with the O/M plan.

3. Determination of whether acceptable operation and maintenance procedures are being used will be based on information available to the Hamilton County Department of Environmental Services, which may include, but is not limited to, monitoring results; review of the O/M plan, procedures, and records; and inspection of the emissions unit. Based on this information, the Hamilton County Department of Environmental Services may require that the permittee make changes to the O/M plan if that plan:

   a. Does not address a malfunction that has occurred;

   b. Fails to provide for the operation of the emissions unit, the air pollution control techniques, or the air pollution 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 and/or control equipment, or monitoring equipment as quickly as practicable.

4. The permittee shall prepare and implement an O/M plan. The O/M plan shall include the following elements:

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

The O/M plan shall incorporate the following work practice standards:

i. Visually inspect at least once per quarter the fiber-bed unit and prefiltering device to ensure there is proper drainage, no chromic acid buildup in the units, and no evidence of chemical attack on the structural integrity of the devices.

ii. Visually inspect at least once per quarter the ductwork from the tank or tanks to the control device to ensure there are no leaks.

iii. Perform washdown of the fiber elements in accordance with manufacturer's recommendations.

b. If a stalagmometer is used for monitoring, follow the manufacturer's recommendations.

c. The O/M 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 O/M 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 O/M 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 O/M 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 O/M 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 Hamilton County Department of Environmental Services.

g. The permittee shall keep the written O/M plan on record after it is developed to be made available for inspection, upon request, by the Hamilton County Department of Environmental Services for the life of the emissions unit. If the O/M plan is revised, the permittee shall keep previous versions of the plan on record to be made available for inspection, upon request, by the Hamilton County Department of Environmental Services for a period of five years after each revision to the plan.

h. The permittee may use applicable standard operating procedure (SOP) manuals, Occupational Safety and Health Administration (OSHA) plans, or other existing plans to meet the O/M plan requirements as long as the alternative plans meet the requirements.

C. **Monitoring and/or Record Keeping Requirements**

1. The permittee shall fulfill all record keeping requirements in the general provisions to 40 CFR, Part 63, according to the applicability of Subpart A.

2. The permittee 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 O/M plan.

e. Other records, which may take the form of checklists, necessary to demonstrate consistence with the provisions of the O/M 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 emissions unit during the reporting period.

l. All documentation supporting the notifications and reports as outlined in the reporting requirements of this permit and 63.9 and 63.10 of 40 CFR, Part 63, Subpart A.

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

n. Any information demonstrating whether the facility is meeting the requirements for a waiver of record keeping or reporting requirements as demonstrated under 63.10(f) of 40 CFR, Part 63, Subpart A, general provisions.

3. All records shall be kept for a period of five years.

4. Wetting agent-type or combination wetting agent-type/foam blanket fume suppressant monitoring requirements to demonstrate continous 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 or combination wetting agent-type/foam blanket 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 limitation. 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.

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, shall constitute noncompliance with the standards.

c. The surface tension shall be monitored according to the following schedule:

i. 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.
ii. 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.

iii. 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.

iv. 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.

D. **Reporting Requirements**

1. The permittee shall fulfill all of the reporting requirements contained in 40 CFR, Part 63, Subpart A. These reports shall be made to the Hamilton County Department of Environmental Services 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 Hamilton County Department of Environmental Services on or before the specified date.

2. The permittee shall submit to the Hamilton County Department of Environmental Services an initial notification report no later than July 24, 1995 that contains the following information:

a. The name, title, and address of the owner or operator.

b. The address (i.e., physical location) of the emissions unit.

c. Identification of the applicable emission limitations and compliance date.

d. A statement of whether the affected emissions unit is located at a major source or at an area source.

e. A brief description of each affected emissions unit, including the type of process operation performed.

3. The permittee shall submit a notification of construction or reconstruction as soon as practicable before the construction or reconstruction has commenced to the Hamilton County Department of Environmental Services 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 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) start-up.

g. The type of process operation to be performed (hard or decorative chromium electroplating or chromium anodizing).

h. A description of the air pollution control technique to be used to control emissions, such as preliminary design

drawings and design capacity if an add-on air pollution control device is used.

i. An estimate of emissions based on engineering calculations and vendor information on control device efficiency, expressed in units consistent with the emission 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.

4. If a reconstruction is to occur, the permittee shall submit as soon as practicable the following information to the Hamilton County Department of Environmental Services:

a. A brief description of the affected emissions unit and the components to be replaced.

b. A brief description of the present and proposed emission control technique.

c. An estimate of the fixed capital cost of the replacements and of constructing a comparable entirely new emissions unit.

d. The estimated life of the affected emissions unit after the replacements.

e. A discussion of any economic or technical limitations the emissions unit may have in complying with relevant standards or other requirements after proposed replacements. The discussion shall be sufficiently detailed to demonstrate to the Hamilton County Department of Environmental Services' satisfaction that the technical or economic limitations affected the emissions unit ability to comply with the relevant standard and how they do so.

5. The permittee shall submit semiannual compliance status 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.

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

The Hamilton County Department of Environmental Services 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.

7. 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 record keeping and monitoring requirements of 40 CFR, Part 63, Subpart A and this permit.

c. The Hamilton County Department of Environmental Services 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 Hamilton County Department of Environmental Services in writing of its intention to make such a change. The Hamilton County Department of Environmental Services 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 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 Hamilton County Department of Environmental Services will notify the permittee in writing within 45 days after receiving notice. This notification will specify the grounds on which the disapproval is based. In the absence of a notice of disapproval within 45 days, approval is automatically granted.
ii. If monitoring data show that the emissions unit is not in compliance with the relevant emission limit, the frequency of reporting shall revert to semiannual, and the permittee shall state this exceedance in the ongoing compliance status report for the next reporting period. After demonstrating ongoing compliance with the relevant emission limit for another full year, the permittee may again request approval to reduce the reporting frequency.

E. **Testing Requirements**

1. 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. Compliance with the chromium emission limitation prescribed in this permit shall be determined by the emission factors, control efficiencies (if applicable) and the operational parameters in the application for this permit as submitted on June 5, 1998.

3. Compliance with the visible particulate emission limitation shall be determined by the method specified in OAC rule 3745-17-03(B)(1).

4. Compliance with the particulate emission limitation prescribed in this permit shall be determined by the method specified in OAC rule 3745-17-03(B)(10).

F. **Miscellaneous Requirements**

1. None

***THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION***

**Facility ID: 1431370923 Emissions Unit ID: P004 Issuance type: Final State Permit To Operate**

Go to the top of this document

**Part II - Special Terms and Conditions**

This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).

1. For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.

(a) None.

2. For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.

(a) None.

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

1. The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

| Operations, Property, and/or Equipment | Applicable Rules/Requirements | Applicable Emissions Limitations/Control Measures |
|---|---|---|
| Black Chromium Electroplating Tank # 1 | 40 CFR, Part 63, Subpart N | See A.2. |
| | OAC rule 3745-17-07(A)(1) | Visible particulate emissions shall not exceed twenty percent opacity, as a six-minute average, except as specified by rule. |
| | OAC rule 3745-17-11(B)(1) | Particulate emissions shall not exceed 0.551 pound per hour. |

2. **Additional Terms and Conditions**

(b) The permittee shall control chromium emissions discharged to the atmosphere by not allowing the surface tension of the electroplating or anodizing bath to exceed 45 dynes per centimeter (0.0031 pound-force per foot) at any time during operation of the tank.

B. **Operational Restrictions**

1. At all times, including periods of start-up, 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 ("O/M") plan required by these terms and conditions.

2. Malfunctions shall be corrected as soon as practicable after their occurrence in accordance with the O/M plan.

3. Determination of whether acceptable operation and maintenance procedures are being used will be based on information available to the Hamilton County Department of Environmental Services, which may include, but is not limited to, monitoring results; review of the O/M plan, procedures, and records; and inspection of the emissions unit. Based on this information, the Hamilton County Department of Environmental Services may require that the permittee make changes to the O/M plan if that plan:

a. Does not address a malfunction that has occurred;

b. Fails to provide for the operation of the emissions unit, the air pollution control techniques, or the air pollution 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 and/or control equipment, or monitoring equipment as quickly as practicable.

4. The permittee shall prepare and implement an O/M plan. The O/M plan shall include the following elements:

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

The O/M plan shall incorporate the following work practice standards:

i. Visually inspect at least once per quarter the fiber-bed unit and prefiltering device to ensure there is proper drainage, no chromic acid buildup in the units, and no evidence of chemical attack on the structural integrity of the devices.

ii. Visually inspect at least once per quarter the ductwork from the tank or tanks to the control device to ensure there are no leaks.

iii. Perform washdown of the fiber elements in accordance with manufacturer's recommendations.

b. If a stalagmometer is used for monitoring, follow the manufacturer's recommendations.

c. The O/M 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 O/M 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 O/M 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 O/M 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 O/M 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 Hamilton County Department of Environmental Services.

g. The permittee shall keep the written O/M plan on record after it is developed to be made available for inspection, upon request, by the Hamilton County Department of Environmental Services for the life of the emissions unit. If the O/M plan is revised, the permittee shall keep previous versions of the plan on record to be made available for inspection, upon request, by the appropriate Ohio EPA District Office or local air agency for a period of five years after each revision to the plan.

h. The permittee may use applicable standard operating procedure (SOP) manuals, Occupational Safety and Health Administration (OSHA) plans, or other existing plans to meet the O/M plan requirements as long as the alternative plans meet the requirements.

C. **Monitoring and/or Record Keeping Requirements**

1. The permittee shall fulfill all record keeping requirements in the general provisions to 40 CFR, Part 63, according to the applicability of Subpart A.

2. The permittee 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 O/M plan.

e. Other records, which may take the form of checklists, necessary to demonstrate consistence with the provisions of the O/M 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 emissions unit during the reporting period.

l. All documentation supporting the notifications and reports as outlined in the reporting requirements of this permit and 63.9 and 63.10 of 40 CFR, Part 63, Subpart A.

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

n. Any information demonstrating whether the facility is meeting the requirements for a waiver of record keeping or reporting requirements as demonstrated under 63.10(f) of 40 CFR, Part 63, Subpart A, general provisions.

3. All records shall be kept for a period of five years.

4. Wetting agent-type or combination wetting agent-type/foam blanket fume suppressant monitoring requirements to demonstrate continous 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 or combination wetting agent-type/foam blanket 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 limitation. 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.

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, shall constitute noncompliance with the standards.

c. The surface tension shall be monitored according to the following schedule:

i. 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.
ii. 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.

iii. 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.

iv. 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.

D. **Reporting Requirements**

1. The permittee shall fulfill all of the reporting requirements contained in 40 CFR, Part 63, Subpart A. These reports shall be made to the Hamilton County Department of Environmental Services 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 Hamilton County Department of Environmental Services on or before the specified date.

2. The permittee shall submit to the Hamilton County Department of Environmental Services an initial notification report no later than July 24, 1995 that contains the following information:

   a. The name, title, and address of the owner or operator.

   b. The address (i.e., physical location) of the emissions unit.

   c. Identification of the applicable emission limitations and compliance date.

   d. A statement of whether the affected emissions unit is located at a major source or at an area source.

   e. A brief description of each affected emissions unit, including the type of process operation performed.

3. The permittee shall submit a notification of construction or reconstruction as soon as practicable before the construction or reconstruction has commenced to the Hamilton County Department of Environmental Services 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 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) start-up.

   g. The type of process operation to be performed (hard or decorative chromium electroplating or chromium anodizing).

   h. A description of the air pollution control technique to be used to control emissions, such as preliminary design drawings and design capacity if an add-on air pollution control device is used.

   i. An estimate of emissions based on engineering calculations and vendor information on control device efficiency, expressed in units consistent with the emission 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.

4. If a reconstruction is to occur, the permittee shall submit as soon as practicable the following information to the Hamilton County Department of Environmental Services:

a. A brief description of the affected emissions unit and the components to be replaced.

b. A brief description of the present and proposed emission control technique.

c. An estimate of the fixed capital cost of the replacements and of constructing a comparable entirely new emissions unit.

d. The estimated life of the affected emissions unit after the replacements.

e. A discussion of any economic or technical limitations the emissions unit may have in complying with relevant standards or other requirements after proposed replacements. The discussion shall be sufficiently detailed to demonstrate to the Hamilton County Department of Environmental Services' satisfaction that the technical or economic limitations affected the emissions unit ability to comply with the relevant standard and how they do so.

5. The permittee shall submit semiannual compliance status 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.

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

The Hamilton County Department of Environmental Services 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.

7. 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 record keeping and monitoring requirements of 40 CFR, Part 63, Subpart A and this permit.

c. The Hamilton County Department of Environmental Services 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 Hamilton County Department of Environmental Services in writing of its intention to make such a change. The Hamilton County Department of Environmental Services 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 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 Hamilton County Department of Environmental Services will notify the permittee in writing within 45 days after receiving notice. This notification will specify the grounds on which the disapproval is based. In the absence of a notice of disapproval within 45 days, approval is automatically granted.
ii. If monitoring data show that the emissions unit is not in compliance with the relevant emission limit, the frequency of reporting shall revert to semiannual, and the permittee shall state this exceedance in the ongoing compliance status report for the next reporting period. After demonstrating ongoing compliance with the relevant emission limit for another full year, the permittee may again request approval to reduce the reporting frequency.

E. **Testing Requirements**

1. 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. Compliance with the chromium emission limitation prescribed in this permit shall be determined by the emission factors, control efficiencies (if applicable) and the operational parameters in the application for this permit as submitted on June 5, 1998.

3. Compliance with the visible particulate emission limitation shall be determined by the method specified in OAC rule 3745-17-03(B)(1).

4. Compliance with the particulate emission limitation prescribed in this permit shall be determined by the method specified in OAC rule 3745-17-03(B)(10).

F. **Miscellaneous Requirements**

1. None

***THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION***

**Facility ID: 1431370923 Emissions Unit ID: P005 Issuance type: Final State Permit To Operate**

Go to the top of this document

**Part II - Special Terms and Conditions**

This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).

1. For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.

   (a) None.

2. For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.

   (a) None.

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

1. The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

| Operations, Property, and/or Equipment | Applicable Rules/Requirements | Applicable Emissions Limitations/Control Measures |
|---|---|---|
| Black Chromium Electroplating Tank # 2 | 40 CFR, Part 63, Subpart N | See A.2. |
| | OAC rule 3745-17-07(A)(1) | Visible particulate emissions shall not exceed twenty percent opacity, as a six-minute average, except as specified by rule. |
| | OAC rule 3745-17-11(B)(1) | Particulate emissions shall not exceed 0.551 pound per hour. |

2. **Additional Terms and Conditions**

   (b) The permittee shall control chromium emissions discharged to the atmosphere by not allowing the surface tension of the electroplating or anodizing bath to exceed 45 dynes per centimeter (0.0031 pound-force per foot) at any time during operation of the tank.

B. **Operational Restrictions**

1. At all times, including periods of start-up, 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 ("O/M") plan required by these terms and conditions.

2. Malfunctions shall be corrected as soon as practicable after their occurrence in accordance with the O/M plan.

3. Determination of whether acceptable operation and maintenance procedures are being used will be based on information available to the Hamilton County Department of Environmental Services, which may include, but is not limited to, monitoring results; review of the O/M plan, procedures, and records; and inspection of the emissions unit. Based on this information, the Hamilton County Department of Environmental Services may require that the permittee make changes to the O/M 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 air pollution 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 and/or control equipment, or monitoring equipment as quickly as practicable.

4. The permittee shall prepare and implement an O/M plan. The O/M plan shall include the following elements:

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

   The O/M plan shall incorporate the following work practice standards:

   i. Visually inspect at least once per quarter the fiber-bed unit and prefiltering device to ensure there is proper drainage, no chromic acid buildup in the units, and no evidence of chemical attack on the structural integrity of the devices.

   ii. Visually inspect at least once per quarter the ductwork from the tank or tanks to the control device to ensure there are no leaks.

   iii. Perform washdown of the fiber elements in accordance with manufacturer's recommendations.

   b. If a stalagmometer is used for monitoring, follow the manufacturer's recommendations.

   c. The O/M 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 O/M 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 O/M 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 O/M 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 O/M 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 Hamilton County Department of Environmental Services.

g. The permittee shall keep the written O/M plan on record after it is developed to be made available for inspection, upon request, by the Hamilton County Department of Environmental Services for the life of the emissions unit. If the O/M plan is revised, the permittee shall keep previous versions of the plan on record to be made available for inspection, upon request, by the Hamilton County Department of Environmental Services for a period of five years after each revision to the plan.

h. The permittee may use applicable standard operating procedure (SOP) manuals, Occupational Safety and Health Administration (OSHA) plans, or other existing plans to meet the O/M plan requirements as long as the alternative plans meet the requirements.

C. **Monitoring and/or Record Keeping Requirements**

1. The permittee shall fulfill all record keeping requirements in the general provisions to 40 CFR, Part 63, according to the applicability of Subpart A.

2. The permittee 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 O/M plan.

e. Other records, which may take the form of checklists, necessary to demonstrate consistence with the provisions of the O/M 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 emissions unit during the reporting period.

l. All documentation supporting the notifications and reports as outlined in the reporting requirements of this permit and 63.9 and 63.10 of 40 CFR, Part 63, Subpart A.

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

n. Any information demonstrating whether the facility is meeting the requirements for a waiver of record keeping or reporting requirements as demonstrated under 63.10(f) of 40 CFR, Part 63, Subpart A, general provisions.

3. All records shall be kept for a period of five years.

4. Wetting agent-type or combination wetting agent-type/foam blanket fume suppressant monitoring requirements to demonstrate continous 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 or combination wetting agent-type/foam blanket 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 limitation. 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.

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, shall constitute noncompliance with the standards.

c. The surface tension shall be monitored according to the following schedule:

i. 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.
ii. 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.

iii. 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.

iv. 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.

D. **Reporting Requirements**

1. The permittee shall fulfill all of the reporting requirements contained in 40 CFR, Part 63, Subpart A. These reports shall be made to the Hamilton County Department of Environmental Services 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 Hamilton County Department of Environmental Services on or before the specified date.

2. The permittee shall submit to the Hamilton County Department of Environmental Services an initial notification report no later than July 24, 1995 that contains the following information:

a. The name, title, and address of the owner or operator.

b. The address (i.e., physical location) of the emissions unit.

c. Identification of the applicable emission limitations and compliance date.

d. A statement of whether the affected emissions unit is located at a major source or at an area source.

e. A brief description of each affected emissions unit, including the type of process operation performed.

3. The permittee shall submit a notification of construction or reconstruction as soon as practicable before the construction or reconstruction has commenced to the Hamilton County Department of Environmental Services 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 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) start-up.

g. The type of process operation to be performed (hard or decorative chromium electroplating or chromium anodizing).

h. A description of the air pollution control technique to be used to control emissions, such as preliminary design drawings and design capacity if an add-on air pollution control device is used.

i. An estimate of emissions based on engineering calculations and vendor information on control device efficiency, expressed in units consistent with the emission 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.

4. If a reconstruction is to occur, the permittee shall submit as soon as practicable the following information to the Hamilton County Department of Environmental Services:

a. A brief description of the affected emissions unit and the components to be replaced.

b. A brief description of the present and proposed emission control technique.

c. An estimate of the fixed capital cost of the replacements and of constructing a comparable entirely new emissions unit.

d. The estimated life of the affected emissions unit after the replacements.

e. A discussion of any economic or technical limitations the emissions unit may have in complying with relevant standards or other requirements after proposed replacements. The discussion shall be sufficiently detailed to demonstrate to the Hamilton County Department of Environmental Services' satisfaction that the technical or economic limitations affected the emissions unit ability to comply with the relevant standard and how they do so.

5. The permittee shall submit semiannual compliance status 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.

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

The Hamilton County Department of Environmental Services 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.

7. 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 record keeping and monitoring requirements of 40 CFR, Part 63, Subpart A and this permit.

c. The Hamilton County Department of Environmental Services 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 Hamilton County Department of Environmental Services in writing of its intention to make such a change. The local air agency or district office 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 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 Hamilton County Department of Environmental Services will notify the permittee in writing within 45 days after receiving notice. This notification will specify the grounds on which the disapproval is based. In the absence of a notice of disapproval within 45 days, approval is automatically granted.
ii. If monitoring data show that the emissions unit is not in compliance with the relevant emission limit, the frequency of reporting shall revert to semiannual, and the permittee shall state this exceedance in the ongoing compliance status report for the next reporting period. After demonstrating ongoing compliance with the relevant emission limit for another full year, the permittee may again request approval to reduce the reporting frequency.

E. **Testing Requirements**

1. 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. Compliance with the chromium emission limitation prescribed in this permit shall be determined by the emission factors, control efficiencies (if applicable) and the operational parameters in the application for this permit as submitted on June 5, 1998.

3. Compliance with the visible particulate emission limitation shall be determined by the method specified in OAC rule 3745-17-03(B)(1).

4. Compliance with the particulate emission limitation prescribed in this permit shall be determined by the method specified in OAC rule 3745-17-03(B)(10).

F. **Miscellaneous Requirements**

1. None

***THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION***

**Facility ID: 1431370923 Emissions Unit ID: P006 Issuance type: Final State Permit To Operate**

Go to the top of this document

**Part II - Special Terms and Conditions**

This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).

1. For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.

(a) None.

2. For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.

(a) None.

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

1. The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

| Operations, Property, and/or Equipment | Applicable Rules/Requirements | Applicable Emissions Limitations/Control Measures |
|---|---|---|
| Black Chromium Electroplating Tank # 3 | 40 CFR, Part 63, Subpart N | See A.2. |
| | OAC rule 3745-17-07(A)(1) | Visible particulate emissions shall not exceed twenty percent opacity, as a six-minute average, except as specified by rule. |
| | OAC rule 3745-17-11(B)(1) | Particulate emissions shall not exceed 0.551 pound per hour. |

2. **Additional Terms and Conditions**

(b) The permittee shall control chromium emissions discharged to the atmosphere by not allowing the surface tension of the electroplating or anodizing bath to exceed 45 dynes per centimeter (0.0031 pound-force per foot) at any time during operation of the tank.

B. **Operational Restrictions**

1. At all times, including periods of start-up, 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 ("O/M") plan required by these terms and conditions.

2. Malfunctions shall be corrected as soon as practicable after their occurrence in accordance with the O/M plan.

3. Determination of whether acceptable operation and maintenance procedures are being used will be based on information available to the Hamilton County Department of Environmental Services, which may include, but is not limited to, monitoring results; review of the O/M plan, procedures, and records; and inspection of the emissions unit. Based on this information, the Hamilton County Department of Environmental Services may require that the permittee make changes to the O/M plan if that plan:

a. Does not address a malfunction that has occurred;

b. Fails to provide for the operation of the emissions unit, the air pollution control techniques, or the air pollution 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 and/or control equipment, or monitoring equipment as quickly as practicable.

4. The permittee shall prepare and implement an O/M plan. The O/M plan shall include the following elements:

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

The O/M plan shall incorporate the following work practice standards:

i. Visually inspect at least once per quarter the fiber-bed unit and prefiltering device to ensure there is proper drainage, no chromic acid buildup in the units, and no evidence of chemical attack on the structural integrity of the devices.

ii. Visually inspect at least once per quarter the ductwork from the tank or tanks to the control device to ensure there are no leaks.

iii. Perform washdown of the fiber elements in accordance with manufacturer's recommendations.

b. If a stalagmometer is used for monitoring, follow the manufacturer's recommendations.

c. The O/M 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 O/M 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 O/M 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 O/M 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 O/M 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 Hamilton County Department of Environmental Services.

g. The permittee shall keep the written O/M plan on record after it is developed to be made available for inspection, upon request, by the Hamilton County Department of Environmental Services for the life of the emissions unit. If the O/M plan is revised, the permittee shall keep previous versions of the plan on record to be made available for inspection, upon request, by the Hamilton County Department of Environmental Services for a period of five years after each revision to the plan.

h. The permittee may use applicable standard operating procedure (SOP) manuals, Occupational Safety and Health Administration (OSHA) plans, or other existing plans to meet the O/M plan requirements as long as the alternative plans meet the requirements.

C. **Monitoring and/or Record Keeping Requirements**

1. The permittee shall fulfill all record keeping requirements in the general provisions to 40 CFR, Part 63, according to the applicability of Subpart A.

2. The permittee 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 O/M plan.

e. Other records, which may take the form of checklists, necessary to demonstrate consistence with the provisions of the O/M 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 emissions unit during the reporting period.

l. All documentation supporting the notifications and reports as outlined in the reporting requirements of this permit and 63.9 and 63.10 of 40 CFR, Part 63, Subpart A.

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

n. Any information demonstrating whether the facility is meeting the requirements for a waiver of record keeping or reporting requirements as demonstrated under 63.10(f) of 40 CFR, Part 63, Subpart A, general provisions.

3. All records shall be kept for a period of five years.

4. Wetting agent-type or combination wetting agent-type/foam blanket fume suppressant monitoring requirements to demonstrate continous 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 or combination wetting agent-type/foam blanket 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 limitation. 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.

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, shall constitute noncompliance with the standards.

c. The surface tension shall be monitored according to the following schedule:

i. 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.
ii. 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.

iii. 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.

iv. 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.

D. **Reporting Requirements**

1. The permittee shall fulfill all of the reporting requirements contained in 40 CFR, Part 63, Subpart A. These reports shall be made to the Hamilton County Department of Environmental Services 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 Hamilton County Department of Environmental Services on or before the specified date.

2. The permittee shall submit to the Hamilton County Department of Environmental Services an initial notification report no later than July 24, 1995 that contains the following information:

   a. The name, title, and address of the owner or operator.

   b. The address (i.e., physical location) of the emissions unit.

   c. Identification of the applicable emission limitations and compliance date.

   d. A statement of whether the affected emissions unit is located at a major source or at an area source.

   e. A brief description of each affected emissions unit, including the type of process operation performed.

3. The permittee shall submit a notification of construction or reconstruction as soon as practicable before the construction or reconstruction has commenced to the Hamilton County Department of Environmental Services 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 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) start-up.

   g. The type of process operation to be performed (hard or decorative chromium electroplating or chromium anodizing).

   h. A description of the air pollution control technique to be used to control emissions, such as preliminary design drawings and design capacity if an add-on air pollution control device is used.

   i. An estimate of emissions based on engineering calculations and vendor information on control device efficiency, expressed in units consistent with the emission 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.

4. If a reconstruction is to occur, the permittee shall submit as soon as practicable the following information to the Hamilton County Department of Environmental Services:

   a. A brief description of the affected emissions unit and the components to be replaced.

   b. A brief description of the present and proposed emission control technique.

   c. An estimate of the fixed capital cost of the replacements and of constructing a comparable entirely new emissions unit.

   d. The estimated life of the affected emissions unit after the replacements.

   e. A discussion of any economic or technical limitations the emissions unit may have in complying with relevant standards or other requirements after proposed replacements. The discussion shall be sufficiently detailed to demonstrate to the Hamilton County Department of Environmental Services' satisfaction that the technical or economic limitations affected the emissions unit ability to comply with the relevant standard and how they do so.

5. The permittee shall submit semiannual compliance status 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.

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

The Hamilton County Department of Environmental Services 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.

7. 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 record keeping and monitoring requirements of 40 CFR, Part 63, Subpart A and this permit.

c. The Hamilton County Department of Environmental Services 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 Hamilton County Department of Environmental Services in writing of its intention to make such a change. The local air agency or district office 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 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 Hamilton County Department of Environmental Services will notify the permittee in writing within 45 days after receiving notice. This notification will specify the grounds on which the disapproval is based. In the absence of a notice of disapproval within 45 days, approval is automatically granted.
ii. If monitoring data show that the emissions unit is not in compliance with the relevant emission limit, the frequency of reporting shall revert to semiannual, and the permittee shall state this exceedance in the ongoing compliance status report for the next reporting period. After demonstrating ongoing compliance with the relevant emission limit for another full year, the permittee may again request approval to reduce the reporting frequency.

E. **Testing Requirements**

1. 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. Compliance with the chromium emission limitation prescribed in this permit shall be determined by the emission factors, control efficiencies (if applicable) and the operational parameters in the application for this permit as submitted on June 5, 1998.

3. Compliance with the visible particulate emission limitation shall be determined by the method specified in OAC rule 3745-17-03(B)(1).

4. Compliance with the particulate emission limitation prescribed in this permit shall be determined by the method specified in OAC rule 3745-17-03(B)(10).

F. **Miscellaneous Requirements**

1. None

***THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION***

**Facility ID: 1431370923 Emissions Unit ID: P007 Issuance type: Final State Permit To Operate**

Go to the top of this document

**Part II - Special Terms and Conditions**

This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).

1. For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.

(a) None.

2. For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.

(a) None.

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

1. The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

| Operations, Property, and/or Equipment | Applicable Rules/Requirements | Applicable Emissions Limitations/Control Measures |
|---|---|---|
| Black Chromium Electroplating Tank # 4 | 40 CFR, Part 63, Subpart N | See A.2. |
| | OAC rule 3745-17-07(A)(1) | Visible particulate emissions shall not exceed twenty percent opacity, as a six-minute average, except as specified by rule. |
| | OAC rule 3745-17-11(B)(1) | Particulate emissions shall not exceed 0.551pound per hour. |

2. **Additional Terms and Conditions**

(b) The permittee shall control chromium emissions discharged to the atmosphere by not allowing the surface tension of the electroplating or anodizing bath to exceed 45 dynes per centimeter (3.1x10-3 pound-force per foot) at any time during operation of the tank.

B. **Operational Restrictions**

1. At all times, including periods of start-up, 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 ("O/M") plan required by these terms and conditions.

2. Malfunctions shall be corrected as soon as practicable after their occurrence in accordance with the O/M plan.

3. Determination of whether acceptable operation and maintenance procedures are being used will be based on information available to the Hamilton County Department of Environmental Services, which may include, but is not limited to, monitoring results; review of the O/M plan, procedures, and records; and inspection of the emissions unit. Based on this information, the Hamilton County Department of Environmental Services may require that the permittee make changes to the O/M plan if that plan:

a. Does not address a malfunction that has occurred;

b. Fails to provide for the operation of the emissions unit, the air pollution control techniques, or the air pollution 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 and/or control equipment, or monitoring equipment as quickly as practicable.

4. The permittee shall prepare and implement an O/M plan. The O/M plan shall include the following elements:

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

The O/M plan shall incorporate the following work practice standards:

i. Visually inspect at least once per quarter the fiber-bed unit and prefiltering device to ensure there is proper drainage, no chromic acid buildup in the units, and no evidence of chemical attack on the structural integrity of the devices.

ii. Visually inspect at least once per quarter the ductwork from the tank or tanks to the control device to ensure there are no leaks.

iii. Perform washdown of the fiber elements in accordance with manufacturer's recommendations.

b. If a stalagmometer is used for monitoring, follow the manufacturer's recommendations.

c. The O/M 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 O/M 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 O/M 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 O/M 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 O/M 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 Hamilton County Department of Environmental Services.

g. The permittee shall keep the written O/M plan on record after it is developed to be made available for inspection, upon request, by the Hamilton County Department of Environmental Services for the life of the emissions unit. If the O/M plan is revised, the permittee shall keep previous versions of the plan on record to be made available for inspection, upon request, by the Hamilton County Department of Environmental Services for a period of five years after each revision to the plan.

h. The permittee may use applicable standard operating procedure (SOP) manuals, Occupational Safety and Health Administration (OSHA) plans, or other existing plans to meet the O/M plan requirements as long as the alternative plans meet the requirements.

C. **Monitoring and/or Record Keeping Requirements**

1. The permittee shall fulfill all record keeping requirements in the general provisions to 40 CFR, Part 63, according to the applicability of Subpart A.

2. The permittee 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 O/M plan.

e. Other records, which may take the form of checklists, necessary to demonstrate consistence with the provisions of the O/M 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 emissions unit during the reporting period.

l. All documentation supporting the notifications and reports as outlined in the reporting requirements of this permit and 63.9 and 63.10 of 40 CFR, Part 63, Subpart A.

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

n. Any information demonstrating whether the facility is meeting the requirements for a waiver of record keeping or reporting requirements as demonstrated under 63.10(f) of 40 CFR, Part 63, Subpart A, general provisions.

3. All records shall be kept for a period of five years.

4. Wetting agent-type or combination wetting agent-type/foam blanket fume suppressant monitoring requirements to demonstrate continous 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 or combination wetting agent-type/foam blanket 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 limitation. 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.

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, shall constitute noncompliance with the standards.

c. The surface tension shall be monitored according to the following schedule:

i. 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.
ii. 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.

iii. 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.

iv. 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.

D. **Reporting Requirements**

1. The permittee shall fulfill all of the reporting requirements contained in 40 CFR, Part 63, Subpart A. These reports shall be made to the Hamilton County Department of Environmental Services 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 Hamilton County Department of Environmental Services on or before the specified date.

2. The permittee shall submit to the Hamilton County Department of Environmental Services an initial notification report no later than July 24, 1995 that contains the following information:

   a. The name, title, and address of the owner or operator.

   b. The address (i.e., physical location) of the emissions unit.

   c. Identification of the applicable emission limitations and compliance date.

   d. A statement of whether the affected emissions unit is located at a major source or at an area source.

   e. A brief description of each affected emissions unit, including the type of process operation performed.

3. The permittee shall submit a notification of construction or reconstruction as soon as practicable before the construction or reconstruction has commenced to the Hamilton County Department of Environmental Services 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 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) start-up.

   g. The type of process operation to be performed (hard or decorative chromium electroplating or chromium anodizing).

   h. A description of the air pollution control technique to be used to control emissions, such as preliminary design drawings and design capacity if an add-on air pollution control device is used.

   i. An estimate of emissions based on engineering calculations and vendor information on control device efficiency, expressed in units consistent with the emission 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.

4. If a reconstruction is to occur, the permittee shall submit as soon as practicable the following information to the Hamilton County Department of Environmental Services:

   a. A brief description of the affected emissions unit and the components to be replaced.

   b. A brief description of the present and proposed emission control technique.

   c. An estimate of the fixed capital cost of the replacements and of constructing a comparable entirely new emissions unit.

   d. The estimated life of the affected emissions unit after the replacements.

   e. A discussion of any economic or technical limitations the emissions unit may have in complying with relevant standards or other requirements after proposed replacements. The discussion shall be sufficiently detailed to demonstrate to the Hamilton County Department of Environmental Services' satisfaction that the technical or economic limitations affected the emissions unit ability to comply with the relevant standard and how they do so.

5. The permittee shall submit semiannual compliance status 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.

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

   The Hamilton County Department of Environmental Services 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.

7. 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 record keeping and monitoring requirements of 40 CFR, Part 63, Subpart A and this permit.

c. The Hamilton County Department of Environmental Services 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 Hamilton County Department of Environmental Services in writing of its intention to make such a change. The local air agency or district office 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 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 Hamilton County Department of Environmental Services will notify the permittee in writing within 45 days after receiving notice. This notification will specify the grounds on which the disapproval is based. In the absence of a notice of disapproval within 45 days, approval is automatically granted.
ii. If monitoring data show that the emissions unit is not in compliance with the relevant emission limit, the frequency of reporting shall revert to semiannual, and the permittee shall state this exceedance in the ongoing compliance status report for the next reporting period. After demonstrating ongoing compliance with the relevant emission limit for another full year, the permittee may again request approval to reduce the reporting frequency.

E. **Testing Requirements**

1. 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. Compliance with the chromium emission limitation prescribed in this permit shall be determined by the emission factors, control efficiencies (if applicable) and the operational parameters in the application for this permit as submitted on Junr 5, 1998.

3. Compliance with the visible particulate emission limitation shall be determined by the method specified in OAC rule 3745-17-03(B)(1).

4. Compliance with the particulate emission limitation prescribed in this permit shall be determined by the method specified in OAC rule 3745-17-03(B)(10).

F. **Miscellaneous Requirements**

1. None