



State of Ohio Environmental Protection Agency

Street Address:

Lazarus Gov. Center  
122 S. Front Street  
Columbus, OH 43215

TELE: (614) 644-3020 FAX: (614) 644-2329

Mailing Address:

Lazarus Gov. Center  
P.O. Box 1049  
Columbus, OH 43216-1049

**RE: FINAL PERMIT TO INSTALL MODIFICATION CERTIFIED MAIL  
CHAMPAIGN COUNTY  
Application No: 05-08362**

Y	TOXIC REVIEW
	PSD
Y	SYNTHETIC MINOR
	CEMS
	MACT
	NSPS
40 CFR 63, Subpart N & T	NESHAPS
	NETTING
	MAJOR NON-ATTAINMENT
	MODELING SUBMITTED
	GASOLINE DISPENSING FACILITY

**DATE:** 6/14/2001

Grimes Aerospace-owned by Allied-Signal  
Geoffrey Walter  
PO Box 247  
Urbana, OH 430780247

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

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

Environmental Review Appeals Commission  
236 East Town Street, Room 300  
Columbus, Ohio 43215

Very truly yours,

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

CC: USEPA

SWDO

## FINAL ADMINISTRATIVE MODIFICATION OF PERMIT TO INSTALL 05-08362

Application Number: **05-08362**APS Premise Number: **0511010009**Permit Fee: **\$0**Name of Facility: **Grimes Aerospace-owned by Allied-Signal**Person to Contact: **Geoffrey Walter**Address: **PO Box 247****Urbana, OH 430780247**

Location of proposed air contaminant source(s) [emissions unit(s)]:  
**550 St Rt 55, 515 N Russell, 240 Twain A  
Urbana, OHIO**

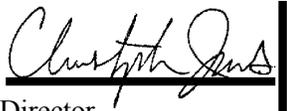
## Description of modification:

**Modification to PTI 05-08362 issued 08/28/98 to limit HAP and VOC potentials in compliance with Title V and MACT thresholds and to remove sources K003 and K004.**

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

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency



Director

**GENERAL PERMIT CONDITIONS**

**TERMINATION OF PERMIT TO INSTALL**

Substantial construction for installation must take place within 18 months of the effective date of this permit. This deadline may be extended by up to 12 months if application is made to the Director within a reasonable time before the termination date and the party shows good cause for any such extension.

**NOTICE OF INSPECTION**

The Director of the Ohio Environmental Protection Agency, or his authorized representatives, may enter upon the premises of the above-named applicant during construction and operation at any reasonable time for the purpose of making inspections, conducting tests, or to examine records or reports pertaining to the construction, modification or installation of the source(s) of environmental pollutants identified within this permit.

**CONSTRUCTION OF NEW SOURCES**

The proposed emissions unit(s) shall be constructed in strict accordance with the plans and application submitted for this permit to the Director of the Ohio Environmental Protection Agency. There may be no deviation from the approved plans without the express, written approval of the Agency. Any deviations from the approved plans or the above conditions may lead to such sanctions and penalties as provided under Ohio law. Approval of these plans does not constitute an assurance that the proposed facilities will operate in compliance with all Ohio laws and regulations. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed sources cannot meet the requirements of this permit or cannot meet applicable standards.

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

**PERMIT TO INSTALL FEE**

In accordance with Ohio Revised Code 3745.11, the specified Permit to Install fee must be remitted within 30 days of the effective date of this permit to install.

### **PUBLIC DISCLOSURE**

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

### **APPLICABILITY**

This Permit to Install is applicable only to the contaminant sources identified. Separate application must be made to the Director for the installation or modification of any other contaminant sources.

### **BEST AVAILABLE TECHNOLOGY**

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

### **SOURCE OPERATION AND OPERATING PERMIT REQUIREMENTS AFTER COMPLETION OF CONSTRUCTION**

If the permittee is required to apply for a Title V permit pursuant to OAC Chapter 3745-77, the permittee shall submit a complete Title V permit application or a complete Title V permit modification application within twelve (12) months after commencing operation of the emissions units covered by this permit. However, if the proposed new or modified source(s) would be prohibited by the terms and conditions of an existing Title V permit, a Title V permit modification must be obtained before the operation of such new or modified source(s) pursuant to OAC rule 3745-77-04(D) and OAC rule 3745-77-08(C)(3)(d).

If the permittee is required to apply for permit(s) pursuant to OAC Chapter 3745-35, the source(s) identified in this Permit To Install is (are) permitted to operate for a period of up to one year from the date the source(s) commenced operation. Permission to operate is granted only if the facility complies with all requirements contained in this permit and all applicable air pollution laws, regulations, and policies. Pursuant to OAC Chapter 3745-35, the permittee shall submit a complete operating permit application within thirty (30) days after commencing operation of the source(s) covered by this permit.

**AIR EMISSION SUMMARY**

The air contaminant sources listed below comprise the Permit to Install for GRIMES AEROSPACE located in Champaign County. The sources listed below shall not exceed the emission limits/control requirements contained in the table. This condition in no way limits the applicability of any other state or federal regulations. Additionally, this condition does not limit the applicability of additional special terms and conditions of this permit.

<u>Ohio EPA Source Number</u>	<u>Source Identification Description</u>	<u>BAT Determination</u>	<u>Applicable Federal &amp; OAC Rules</u>	<u>Permit Allowable Mass Emissions and/or Control/Usage Requirements</u>
P001	Route 55, Twain Ave & Russell Street solvent work stations	a	3745-31-05 3745-21-07	97.72 lbs/day, 1.51 tons VOC/month 11.77 tons VOC per rolling 12-month period
L203	Perc open top vapor degreaser	b	3745-31-05 3745-21-09 (O) 40 CFR Part 63, Subpart T	0.40 ton VOC/month, 4.73 tons VOC per rolling 12-month period
P204	Chrome Anodizing Tank	c	3745-31-05 3745-15-07 40 CFR Part 63, Subpart N	0.0008 ton per rolling 12-month period total chromium; 0.01 mg/dscm total chromium; (4.4 x 10 <sup>6</sup> gr/dscf) unless a fume suppressant is used and the bath surface tension is maintained at <45 dynes/cm
P208	Resin Room	d	3745-31-05 3745-21-07 (G)(2)	8 lbs OC/hr, 40 lbs OC/day, 0.62 ton OC/month, 2.5 tons OC per rolling 12-month period

**Grimes Aerospace-owned by Allied-Signal**  
**PTI Application No. 05-8362**  
**Modification Issued: 6/14/2001**

Facility ID: **0511010009**

<u>Ohio EPA Source Number</u>	<u>Source Identification Number</u>	<u>BAT Determination</u>	<u>Applicable Federal &amp; OAC Rules</u>	<u>Permit Allowable Mass Emissions and/or Control/Usage Requirements</u>
K001	Metal coating booth, with electric oven	e	3745-31-05 3745-21-09 (U)(2)(e)	<10 gals. coating/day; 0.5 gal/day cleanup; 85.6 lbs VOC/day; the combined OC emissions from units K001, K002, K005, K007, K103, K205, K206, R006, and R008 shall not exceed 2.5 tons/month, 20 tons per rolling 12-month period; 0.19 lb PM/hr, 0.83 TPY PM
K005	Metal and plastic coating booth, with electric oven	e,f	3745-31-05 3745-21-09 (U)(2)(e) 3745-17-11 3745-21-07 (G)(2)	For metal coating operating: <10 gals. coating/day; 0.5 gal/day cleanup; 92 lbs VOC/day; For plastic coating operations: 8 lbs OC/hr, 40 lbs OC/day; the combined OC emissions from units K001, K002, K005, K007, K103, K205, K206, R006 and R008 shall not exceed 2.5 tons/month, 20 tons per rolling 12-month period; 0.19 lb PM/hr; 0.83 TPY PM
K007	Nordson coating operation	f	3745-31-05 3745-17-11 3745-21-07(G)(2)	0.555 lb PM/hr, 2.43 TPY PM; 8 lbs OC/hr, 40 lbs OC/day; the combined OC emissions from

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K007 (cont'd)				units K001, K002, K005, K007, K103, K205, K206, R006, and R008 shall not exceed 2.5 tons/month, 20 tons per rolling 12-month period
K103	Metal coating booth, with electric oven	e	3745-31-05 3745-21-09 (U)(2)(e) 3745-17-11	<10 gals. coating/day; 0.5 gal day cleanup; 92 lbs VOC/day; the combined OC emissions from units K001, K002, K005, K007, K103, K205, K206, R006, and R008 shall not exceed 2.5 tons/month, 20 tons per rolling 12-month period; 0.19 lb PM/hr; 0.83 TPY PM
K205	Metal coating booth with electric oven (modification)	e	3745-31-05 3745-21-09 (U)(2)(e) 3745-17-11	<10 gals. coating/day; 0.5 gal/day cleanup; 79.1 lbs VOC/day; the combined OC emissions from units K001, K002, K005, K007, K103, K205, K206, R006 and, R008 shall not exceed 2.5 tons/month, 20 tons per rolling 12-month period; 0.19 lb PM/hr; 0.83 TPY PM

<u>Ohio EPA Source Number</u>	<u>Source Identification Number</u>	<u>BAT Determination</u>	<u>Applicable Federal &amp; OAC Rules</u>	<u>Permit Allowable Mass Emissions and/or Control/Usage Requirements</u>
K206	Metal coating booth with electric oven	e	3745-31-05 3745-21-09 (U)(2)(e) 3745-17-11	<10 gals. coating/day; 0.5 gal/day cleanup; 79.1 lbs VOC/day; the combined OC emissions from units K001, K002, K005, K007, K103, K205, K206, R006 and, R008 shall not exceed 2.5 tons/month, 20 tons per rolling 12-month period; 0.19 lb PM/hr; 0.83 TPY PM
K002	Aircraft metal parts coating line	e	3745-31-05 3745-17-11 3745-21-09 (U)(2)(e)	<10 gals. coating/day; 0.5 gal/day cleanup; 79.1 lbs VOC/day; the combined OC emissions from units K001, K002, K005, K007, K103, K205, K206, R006, and R008 shall not exceed 2.5 tons/month, 20 tons per rolling 12-month period; 0.19 lb PM/hr; 0.83 TPY PM
R006	Bulb painting operation with oven	d	3745-31-05 3745-21-07 (G)(2) 3745-17-11	8 lbs OC/hr & 40 lbs OC/day, including cleanup; the combined OC emissions from K001, K002, K005, K007, K013, K205, K206, R006, and R008 shall not exceed 2.5 tons/month, 20 tons per rolling 12-month period;

<u>Ohio EPA Source Number</u>	<u>Source Identification Number</u>	<u>BAT Determination</u>	<u>Applicable Federal &amp; OAC Rules</u>	<u>Permit Allowable Mass Emissions and/or Control/Usage Requirements</u>
R006 (cont'd)				0.19 lb PM/hr; 0.83 TPY PM
R008	Screen printing operation	d	3745-31-05 3745-21-07 (G)(2)	8 lbs OC/hr & 40 lbs OC/day, including cleanup; the combined OC emissions from K001, K002, K005, K007, K103, K205, K206, R006, and R008 shall not exceed 2.5 tons/month, 20 tons per rolling 12-month period; 0.19 PM/hr; 0.83 TPY PM
P002	Circuit board production	d	3745-31-05 3745-21-07 (G)(2)	8 lbs OC/hr & 40 lbs OC/day, 0.62 ton OC/month, 5.73 tons OC per rolling 12-month period

- a Compliance with the specified regulations and the allowable emission limits; the use of non-photochemically reactive material; record keeping; reporting
- b Compliance with the state and federal regulations (i.e., MACT standard for Halogenated Solvent Metal Cleaning) and the allowable emission limits; record keeping; reporting
- c Compliance with the state and federal regulations (i.e., MACT standard for chrome anodizing) and the allowable emission limits; the use of fume suppressant or fume scrubber; record keeping; reporting
- d Compliance with the specified regulations and the allowable emission limits; record keeping; reporting
- e Compliance with the specified regulations and the allowable emission limits; coating usage less than 10 gals/day; cleanup less than 0.5 gal/day; record keeping; reporting (This permit represents a modification of emissions units K005 and K006, represented in PTI 05-5290 issued June 30, 1992, to K205 and K206.)

- f Compliance with the specified regulations and the allowable emission limits; the use of Ultraviolet (100% solids) coatings; the application of a dry filter control system; record keeping; reporting

**SUMMARY**  
**TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS**

<u>Pollutant</u>	<u>Tons/Year</u>
Organic compounds	44.73
each individual HAP	7.5
total HAPs	22.5
total Chromium	0.0008

**NESHAP REQUIREMENTS**

The following source(s) are subject to the applicable provisions of the National Emission Standards for Hazardous Air Pollutants (NESHAP) as promulgated by the United States Environmental Protection Agency under 40 CFR Part 63.

<u>Source No.</u>	<u>Source Description</u>	<u>NESHAP Regulation</u>
L203	Hal. open top vapor degreaser	40 CFR Part 63 Subpart T
P204	Chromium Anodizing	40 CFR Part 63 Subpart N

The application and enforcement of these standards are delegated to Ohio EPA. The requirements of 40 CFR Part 63 are also federally enforceable.

Pursuant to the NESHAP, the source owner/operator is required to report the following milestones:

- a. date of commencement of construction ( no later than 30 days after such date);
- b. anticipated date of initial start-up (not more than 60 days or less than 30 days prior to such date);
- c. actual date of initial start-up (within 15 days after such date); and
- d. date of performance testing (at least 30 days prior to testing).

Reports are to be sent to:

Ohio Environmental Protection Agency  
Division of Air Pollution Control  
Permit Management Unit  
P.O. Box 1049  
Columbus, OH 43216-1049

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Facility ID: **0511010009**

and OEPA Southwest District Office - DAPC  
401 East Fifth Street  
Dayton, Ohio 45402-2911

### **RECORD(S) RETENTION AND AVAILABILITY**

All records required by this Permit to Install shall be retained on file for a period of not less than three years unless otherwise indicated by Ohio Environmental Protection Agency. All records shall be made available to the Director, or any representative of the Director, for review during normal business hours.

### **REPORTING REQUIREMENTS**

Unless otherwise specified, reports required by the Permit to Install need only be submitted to OEPA Southwest District Office - DAPC, 401 East Fifth Street, Dayton, Ohio 45402-2911.

### **WASTE DISPOSAL**

The owner/operator shall comply with any applicable state and federal requirements governing the storage, treatment, transport and disposal of any waste material generated by the operation of the sources.

### **MAINTENANCE OF EQUIPMENT**

This source and its associated air pollution control system(s) shall be maintained regularly in accordance with good engineering practices and the recommendations of the respective manufacturers in order to minimize air contaminant emissions.

### **MALFUNCTION/ABATEMENT**

In accordance with OAC RULE 3745-15-06, any malfunction of the source(s) or associated air pollution control system(s) shall be reported immediately to the OEPA Southwest District Office - DAPC, 401 East Fifth Street, Dayton, Ohio 45402-2911.

Except as provided by OAC Rule 3745-15-06(A)(3), scheduled maintenance of air pollution control equipment that requires the shutdown or bypassing of air pollution control system(s) must be accompanied by the shutdown of the associated air pollution sources.

### **AIR POLLUTION NUISANCES PROHIBITED**

The air contaminant source(s) identified in this permit may not cause a public nuisance in violation of OAC Rule 3745-15-07.

**BAT FOR OPEN TOP VAPOR DEGREASERS**

In accordance with OAC Rule 3745-21-09(0)(3), each owner or operator of an open top vapor degreaser shall:

- A. Equip the open top vapor degreaser with a cover that can be opened and closed easily without disturbing the vapor zone;
- B. Install the following safety switches:
  - 1. A condenser flow switch and thermostat or any other device which shuts off the sump heat if the condenser is either not circulating or too warm;
  - 2. A spray safety switch which shuts off the spray pump if the vapor level drops below any fixed spray nozzle;
  - 3. A vapor level control thermostat or any other device which shuts off the sump heat when the vapor level rises too high; and
  - 4. A water flow switch, water pressure switch or any other device which shuts off the sump heat if the water in a water-cooled condenser has no flow or no pressure, whichever is being monitored;
- C. Install one of the following devices:
  - 1. A freeboard with a freeboard ratio greater than or equal to 0.75 - if the open top vapor degreaser opening is greater than 10 square feet, the cover must be powered or equipped with mechanical features whereby it can be readily closed when the degreaser is not in use;
  - 2. Refrigerated chiller;
  - 3. Enclosed design (cover or door opens only when the dry part is actually entering or exiting the open top vapor degreaser);
  - 4. Carbon adsorption system, with ventilation greater than or equal to 50 cubic feet per minute per square foot of air/solvent interface (when cover is open), and exhausting less than 25 parts per million (ppm) of solvent averaged over one complete adsorption cycle; or
  - 5. A control system, demonstrated to have control efficiency equivalent to or greater than any of the above, and approved by the Director; and
- D. Operate and maintain the open top vapor degreaser in a manner which is consistent with good engineering practice and which minimizes solvent evaporation from the unit.

**ADDITIONAL SPECIAL TERMS AND CONDITIONS**

**I. Operational Restrictions**

**A. P001-Solvent Work Stations**

1. The permittee shall employ only non-photochemically reactive materials, as defined in accordance with OAC rule 3745-21-01(C)(5).
2. Solvent usage shall not result in an exceedance of the following usage limitations:
  - a. the permittee shall not employ solvent in emissions unit P001 at input rates that would exceed 1.51 tons/month\* and 11.77 tons per rolling 12-month period.\*\* The amount employed is equal to the amount emitted.

\* monthly usage/VOC input rate =  $\sum (A \times B)$  where A = the number of gallons of each solvent employed per month and B = the VOC content of each solvent employed in pounds per gallon.

\*\* rolling 12-month usage/VOC input rate =  $\sum (B \times C)$  where B = the VOC content of each solvent employed in pounds per gallon and C = the number of gallons of each solvent employed per rolling 12-month period.

**B. L203-Perchloroethylene Open Top Vapor Degreaser**

1. The amount of perchloroethylene employed in emissions unit L203 shall not exceed 700 gallons per year.

**C. K001, K002, K005, K103, K205 and K206-Metal Coating Booths with Electric Drying Ovens**

1. The permittee shall employ less than 10 gallons of coating per day in each emission unit K001, K003, K004, K005, K103, K205 and K206.

**D. Hazardous Air Pollutant Facility Emission Limits**

1. The HAP emissions from all emissions units at this facility, including emissions from existing units not listed or specifically addressed in this permit, shall not exceed 7.5 tons per year for any single HAP and 22.5 tons per year for any combination of HAPs, based upon a rolling, 12-month summation of the monthly emissions.

## II. Record Keeping Requirements

### A. P001-Solvent Work Stations

1. The permittee shall collect and record the following information for each day for the emissions unit P001:
  - a. the company identification for each solvent employed;
  - b. the number of gallons of each solvent employed;
  - c. the organic compound content of each solvent, in pounds per gallon; and,
  - d. the total organic compound emission rate for all solvents, in pounds per day.
2. The permittee shall collect and record the following information for each month for the purpose of determining the monthly VOC emissions/input rate and the annual VOC emissions/input rate per rolling 12-month period from emissions unit P001:
  - a. the company identification for each solvent employed;
  - b. the number of gallons of each solvent employed;
  - c. the organic compound content of each solvent, in pounds per gallon; and,
  - d. the total organic compound emission rate for all solvents, in pounds per month and tons per month; and,
  - e. the total combined organic compound emissions rate for all solvents employed, in tons per rolling 12-month period.

### B. L203-Perchloroethylene Open Top Vapor Degreaser

1. The permittee shall maintain monthly records which include the following information for the purpose of determining the monthly VOC emissions and the annual VOC emissions per rolling 12-month period from emissions unit L203:
  - a. the organic compound content of the perchloroethylene employed;
  - b. the number of gallons of perchloroethylene used;
  - c. the number of gallons of perchloroethylene disposed of as waste;
  - d. the organic compound emission rate for perchloroethylene employed in pounds per month and tons per month; and,

- e. the organic compound emission rate for perchloroethylene employed, in tons per rolling 12-month period.

**C. K001, K002, K005, K103, K205 and K206-Metal Coating Booths with Electric Drying Ovens**

- 1. The permittee shall collect and record the following information each day for the coating line:
  - a. the name and identification number of each coating employed;
  - b. the volume, in gallons, of each coating employed; and,
  - c. the total volume, in gallons, of all of the coatings employed.

**D. K001, K002, K005 (when not coating plastic parts), K103, K205 and K206-Metal Coating Booths with Electric Drying Ovens; and K007-Norstan Coating Booth**

- 1. The daily OC emission limit is based on the emissions units' potential to emit. Therefore, no deviation reporting or compliance method calculations are required to demonstrate compliance.

**E. K001, K002, K103, K205 and K206-Metal Coating Booths with Electric Drying Ovens; K007-Norstan Coating Booth; R006-Bulb Painting Operation; R008-Screen Printing Operation; K005 - Metal and Plastic Coating Booth, with Electric Oven; P208 - Resin Room; and P002 - Circuit Board Production**

- 1. The permittee shall collect and record the following information each month, for all of the coatings and cleanup materials, for each emissions unit for purposes of determining the monthly VOC emissions and the annual VOC emissions per rolling 12-month period:
  - a. the company identification for each organic compound material employed;
  - b. the number of gallons of each organic compound material employed;
  - c. the organic compound content of each coating employed, in pounds per gallon;
  - d. the total combined organic compound emissions from all coatings and cleanup materials employed, in tons per month; and,
  - e. the total combined organic compound emissions from all coatings and cleanup materials employed, in tons per rolling 12-month period.

**F. K007-Norstan Coating Booth; P208-Resin Room; K005 - Metal and Plastics Coating Booth (when coating plastic parts); R006-Bulb Painting Operation; R008-Screen Printing Operation; P002-Circuit Board Production**

1. The permittee shall collect and record the following information for each day for the coating operations:
  - a. the company identification for each coating and photochemically reactive cleanup material employed;
  - b. the number of gallons of each coating and photochemically reactive cleanup material employed;
  - c. the organic compound content of each coating and photochemically reactive cleanup material, in pounds per gallon;
  - d. the total organic compound emission rate for all coatings and photochemically reactive cleanup materials, in tons per month;
  - e. the total organic compound emission rate for all coatings and photochemically reactive cleanup materials, in pounds per day;
  - f. the total number of hours the emissions unit was in operation; and,
  - g. the average hourly organic compound emission rate for all coatings and photochemically reactive cleanup materials, i.e., (e)/(f), in pounds per hour (average).

[Note: The coating information must be for the coatings **as employed**, including any thinning solvents added at the emissions unit. Also, the definitions of "photochemically reactive" and "nonphotochemically reactive" are based upon OAC rule 3745-21-01(C)(5).]

**G. Hazardous Air Pollutants (HAP)**

1. The permittee shall collect and record the following information each month for all emissions units at this facility including emissions from units not listed or specifically addressed in this permit:
  - a. the name and identification of each coating, as applied;
  - b. the individual HAP<sup>1</sup> content for each HAP of each coating in pounds of individual HAP per gallon of coating, as applied;
  - c. the total combined HAP content of each coating in combined HAPs per gallon of coating, as applied (sum all the individual HAP contents of b.);

- d. the number of gallons of each coating employed;
- e. the name and identification number of each cleanup material, as applied;
- f. the individual HAP content for each HAP of each cleanup material in pounds of individual HAP per gallon of cleanup material, as applied;
- g. the total combined HAP content of each cleanup material in combined HAPs per gallon of cleanup material, as applied (sum all the individual HAP contents of f.)
- h. the number of gallons of each cleanup material employed;
- i. the name and identification number of each other HAP-emitting material;
- j. the individual HAP content for each HAP of each other HAP-containing material;
- k. the total combined HAP content of each other HAP-containing material (i.e., sum of all the individual HAP contents of j.);
- l. the amount of each other HAP-containing material employed (pounds, gallons, etc.);
- m. the total individual HAP emissions for each HAP from all coatings, cleanup and other HAP-containing materials employed, in pounds or tons per month (for each HAP the sum of b. times d. for each coating, the sum of f. times h. for each cleanup material) and the sum of j. times l. for each other HAP-containing materials); and,
- n. the total combined HAP emissions from all coatings, cleanup and other HAP-containing materials employed, in pounds or tons per month (the sum of c. times d. for each coating plus the sum of g. times h. for each cleanup material plus the sum of k. times l. for each other HAP-containing materials).

<sup>1</sup>A Listing of the Hazardous Air Pollutants (HAPs) can be found in Section 112 (b) of the Clean Air Act or can be obtained by contacting your Ohio EPA Southwest District Office contact. Material Safety Data Sheets (MSDS) typically include a listing of the solvents contained in the coatings or cleanup materials. This information does not have to be kept on a line-by-line basis.

### **III. Reporting Requirements**

#### **A. P001-Solvent Work Stations**

- 1. The permittee shall submit deviation (excursion) reports which include the following information:
  - a. an identification of each day during which the total organic compound emissions

exceeded 97.72 pounds per day, and the actual organic compound emissions for each such day; and,

- b. an identification of each month during which the total organic compound emissions exceeded 1.51 tons per month (3020 pounds/month), and the actual organic compound emissions for each such month.

**B. K005 - Metal and Plastic Coating Booth (when coating plastic parts); K007-Norstan Coating Booth; P208-Resin Room; R006-Bulb Painting Operation; R008-Screen Printing Operation; P002-Circuit Board Production**

1. The permittee shall submit deviation (excursion) reports which include the following information:
  - a. an identification of each day during which the average hourly total organic compound emissions exceeded 8 pounds per hour, and the actual average hourly organic compound emissions for each such day; and,
  - b. an identification of each day during which the total organic compound emissions exceeded 40 pounds per day, and the actual organic compound emissions for each such day.

**C. K001, K002, K005 (when not coating plastic parts), K103, K205 and K206-Metal Coating Booths with Electric Drying Ovens**

1. The permittee shall notify the Director (Ohio EPA Southwest District Office) in writing of any daily record showing that the coating line employs more than the applicable maximum daily coating usage limit of 10 gallons per day. The notification shall include a copy of such record and/or records and shall be sent to the Director (Ohio EPA Southwest District Office) within 45 days after the exceedance(s) occur(s).

**D. K001, K005, K103, K205 and K206-Metal Coating Booths with Electric Drying Ovens; K007-Norstan Coating Booth and Oven; K002-Aircraft Parts Coating Line; R006-Bulb Painting Operation; and R008-Screen Printing Operation**

1. The permittee shall notify the Director (Ohio EPA Southwest District Office) in writing of any monthly record showing exceedance(s) of the OC emission limitation 2.5 tons per month and 20 tons per rolling 12-month period.

**E. P208-Resin Room**

1. The permittee shall notify the Director (Ohio EPA Southwest District Office) in writing of any monthly record showing exceedance(s) of the 0.62 ton OC/month emission limitation.

**F. P002-Circuit Board Production**

1. The permittee shall notify the Director (Ohio EPA Southwest District Office) in writing of any monthly record showing exceedance(s) of the 0.62 ton OC/month emission limitation.

**G. Facility**

1. The permittee shall notify the Director (Ohio EPA Southwest District Office) in writing of any record showing exceedances of 7.5 tons per year for any single HAP and 22.5 tons per year for any combination of HAPs for the facility.
2. The permittee shall submit required reports in the following manner unless it is specified otherwise:
  - a. reports of any required monitoring and/or record keeping information shall be submitted to the Ohio EPA Southwest District Office;
  - b. except as otherwise may be provided in the terms and conditions for a specific emissions unit, quarterly written reports of (a) any deviations (excursions) from emission limitations, operational restrictions, and control device operating parameter limitations that have been detected by the testing, monitoring and record keeping requirements specified in this permit, (b) the probable cause of such deviations, and (c) any corrective actions or preventive measures which have been or will be taken, shall be submitted the Ohio EPA Southwest District Office. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted quarterly, i.e., by January 31, April 30, July 31 and October 31 of each year and shall cover the previous calendar quarters. (These quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06.)

**IV. Testing Requirements**

- A.** Compliance with the emission limitations in the Emission Summary of this permit shall be determined with the following methods:

1. Emission Limitation-P001

97.72 pounds VOC/day; 1.51 tons VOC/month; 11.77 TPY VOC

Applicable Compliance Method-

The specified daily and monthly record keeping for emissions unit P001

For the annual TPY VOC limit, compliance shall be based upon the record keeping specified and shall be the sum of the monthly VOC emission rates for the rolling 12 months.

2. Emission Limitation-L203

0.40 ton VOC/month; 4.73 TPY VOC

Applicable Compliance Method-

Monthly record keeping of perchloroethylene usage and disposal, in gallons and the VOC content.

For the annual TPY VOC limit, compliance shall be based upon the record keeping specified and shall be the sum of the monthly VOC emission rates for the rolling 12 months.

3. Emission Limitation-P204

0.0008 ton per rolling 12-month period total chromium; 0.01 mg/dscm total chromium ( $4.4 \times 10^{-6}$  gr/dscf), unless a fume suppressant is used and the bath surface tension is maintained at <45 dynes/cm.

Applicable Compliance Method-

Compliance shall be based upon the flow rate of the equipment, in dry standard cubic feet per minute and the MACT emission standard of  $4.4 \times 10^{-6}$  gr/dscf or it shall be demonstrated that the surface tension of the (chromium anodizing) bath is maintained below 45 dynes/cm.

For the TPY total chromium limit, compliance shall be based upon the operating rate of 8760 hours per year, and compliance with the work practices and record keeping requirements of the applicable section of MACT standard for HARD AND DECORATIVE CHROMIUM ELECTROPLATING & ANODIZING TANKS.

4. Emission Limitation-P208

8 pounds OC/hour; 40 pounds OC/day; 0.62 ton OC/month; 2.5 TPY OC

Applicable Compliance Method-

The specified daily and monthly record keeping for emissions unit P208. Formulation data or USEPA Method 24 shall be used to determine the organic compound contents of the coatings.

For the annual OC limit, compliance shall be based upon the record keeping specified and shall be the sum of the monthly OC emission rates for rolling 12 months.

5. Emission Limitation-K001

0.19 pound PM/hour; 0.83 TPY PM; 5 percent visible emission opacity limit as a three minute average.

Less than 10 gallons of coating per day; 0.5 gallon of cleanup per day; 85.6 pounds VOC/day; the combined OC emissions from units K001, K002, K005, K007, K103, K205, K206, R006, R008 shall not exceed 2.5 tons/month; 20 TPY rolling 12-month period

Applicable Compliance Method-

The specified monthly record keeping for emissions unit K001. For the annual OC limit, compliance shall be based upon the record keeping specified and shall be the sum of the monthly OC emission rates for the rolling 12 months.

The installation of particulate filter(s) and their operation according to manufacturer's recommendations shall be deemed to ensure compliance with the PM emission rates.

6. Emission Limitation- K002, K005 (when coating metal parts), K103

0.19 pound PM/hour; 0.83 TPY PM; 5 percent visible emission opacity limit as a three minute average.

Less than 10 gallons of coating per day; 0.5 gallon of cleanup per day; 92 pounds VOC/day; the combined OC emissions from units K001, K002, K005, K007, K103, K205, K206, R006, R008 shall not exceed 2.5 tons/month; 20 TPY rolling 12-month period.

Applicable Compliance Method-

The specified monthly record keeping for emissions unit K002, K005 and K103. For the annual OC limit, compliance shall be based upon the record keeping specified and shall be the sum of the monthly OC emission rates for the rolling 12 months.

The installation of particulate filter(s) and their operation according to manufacturer's recommendations shall be deemed to ensure compliance with the PM emission rates.

7. Emission Limitation-K007

0.55 pound PM/hour; 2.41 TPY PM; 5 percent visible emission opacity limit as a three minute average

8 pounds OC/hour; 40 pounds OC/day; the combined OC emissions from units K001, K002, K005, K007, K103, K205, K206, R006, R008 shall not exceed 2.5 tons/month; 20 TPY rolling 12-month period.

Applicable Compliance Method-

PM emission rates-Compliance shall be based upon the process weight rate from the ultraviolet coating booth and the allowable emission limit established from OAC rule 3745-17-11. For the annual PM limit, compliance shall be based upon the hourly emission rate established through OAC rule 3745-17-11 and the maximum operating schedule of 8760 hours/year. The installation of particulate filter(s) and their operation according to manufacturers' recommendations shall be deemed to ensure compliance with the PM emission rates.

If required, compliance with the 5 percent visible emission limit shall be determined by visible emission evaluations performed in accordance with procedures specified in OAC rule 3745-17-03(B)(1) using the methods and procedures specified in USEPA Reference Method 9.

OC emission rates-The specified daily and monthly record keeping for emissions unit K007. Formulation data or USEPA Method 24 shall be used to determine the organic compound contents of the coatings.

For the annual OC limit, compliance shall be based upon the record keeping specified and shall be the sum of the monthly OC emission rates for the rolling 12 months.

8. Emission Limitation-K205, K206

Less than 10 gallons of coating per day; 0.5 gallon of cleanup per day; 79.1 pounds VOC/day; the combined OC emissions from units K001, K002, K005, K007, K103, K205, K206, R006, R008 shall not exceed 2.5 tons/month; 20 TPY rolling 12-month period.

Applicable Compliance Method-

The specified daily and monthly record keeping for emissions units K205 and K206. For the annual OC limit, compliance shall be based upon the record keeping specified and shall be the sum of the monthly OC emission rates for the rolling 12 months.

9. Emissions Limitation-K005 (when coating plastic parts), R006, R008

8 pounds OC/hour; 40 OC/day; the combined OC emissions from units K001, K002, K005, K007, K103, K205, K206, R006, R008 shall not exceed 2.5 tons/month; 20 TPY rolling 12-month period.

Applicable Compliance Method-

The specified daily and monthly record keeping for emissions units K005, R006 and R008. Formulation data or USEPA Method 24 shall be used to determine the organic compound contents of the coatings.

For the annual OC limit, compliance shall be based upon the record keeping specified and shall be the sum of the monthly OC emission rates for the rolling 12 months.

10. Emission Limitation-P002

8 pounds OC/hour; 40 pounds OC/day; 0.62 ton OC/month; 5.73 TPY OC

Applicable Compliance Method-

The specified daily and monthly record keeping for emissions units P002. Formulation data or USEPA Method 24 shall be used to determine the organic compound contents of the coatings.

For the annual OC limit, compliance shall be based upon the record keeping specified and shall be the sum of the monthly OC emission rates for the rolling 12 months..

**FEDERAL MACT REQUIREMENTS**

**V. Halogenated Solvent Cleaning**

**A. Introduction**

1. The emission unit L203 is open top vapor degreaser (batch vapor solvent cleaning machine). The halogenated solvent used in the degreaser is perchloroethylene.

**B. Compliance Demonstration**

1. The permittee shall demonstrate that the solvent cleaning machine can achieve and maintain an idling emission limit of 0.22 kilograms per hour per square meter 0.045 pound per hour per square foot of solvent/air interface area as determined using the procedures in 40 CFR 63.465 (a) and 40 CFR 63, Appendix A.
2. The permittee shall perform the following activities:
  - a. conduct an initial performance test to demonstrate compliance with the applicable idling emission limit and to establish parameters that will be monitored to demonstrate compliance;
  - b. conduct the periodic monitoring of the parameters used to demonstrate compliance as described in the "Monitoring and/or Record keeping Requirements" section of this permit; and,
  - c. operate the solvent cleaning machine within the parameters identified in the initial performance test.

**C. Design Requirements**

1. The permittee shall ensure that the solvent cleaning machine conforms to the following design requirements:
  - a. the solvent cleaning machine shall be designed or operated to meet the following control equipment or technique requirements:
    - i. use of an idling and downtime mode cover that shall be in place during the idling mode, and during the downtime mode unless either the solvent has been removed from the machine or maintenance or monitoring is being performed that requires the cover(s) to not be in place. The cover must be able to be readily opened or closed, must completely cover the cleaning machine openings when in place, and must be free of cracks, holes and other defects; or,
    - ii. use of reduced room draft that ensures that the flow or movement across the top of the freeboard area of the solvent cleaning machine or within the solvent cleaning machine enclosure does not exceed 15.2 meters per minute (50 feet per minute) at any time measured using the procedure described in the "Monitoring and/or Record keeping Requirements" section of this permit. The permittee shall establish and maintain the operating conditions under which the wind speed was demonstrated to be 15.2 meters per minute (50 feet per minute) or less as described in the "Monitoring and/or Record keeping Requirements" section of this permit;
  - b. the solvent cleaning machine shall have a freeboard ratio of 0.75 or greater;
  - c. the solvent cleaning machine shall have an automated parts handling system capable of moving parts or parts baskets at a speed of 3.4 meters per minute (11 feet per minute) or less from the initial loading of parts through removal of cleaned parts;
  - d. the solvent cleaning machine shall be equipped with a device that shuts off the sump heat if the sump liquid solvent level drops to the sump heater coils;
  - e. the solvent cleaning machine shall be equipped with a vapor level control device that shuts off sump heat if the vapor level in the vapor cleaning machine rises above the height of the primary condenser; and,
  - f. the solvent cleaning machine shall have a primary condenser.

**D. Operational Restrictions**

1. The permittee shall meet all of the following required work and operational practices:
  - a. control air disturbances across the solvent cleaning machine opening(s) by incorporating the following control equipment or techniques:
    - i. cover(s) for the solvent cleaning machine shall be in place during the idling mode and during the downtime mode unless either the solvent has been removed from the machine or maintenance or monitoring is being performed that requires the cover(s) to not be in place; or,
    - ii. the permittee shall employ reduced room draft that ensures that the flow or movement of air across the top of the freeboard area of the solvent cleaning machine or within the solvent cleaning machine enclosure does not exceed 15.2 meters per minute (50 feet per minute) at any time as measured using the procedures described in the "Monitoring and/or Record keeping Requirements" section of this permit. The permittee shall also establish and maintain the operating conditions under which the wind speed was demonstrated to be 15.2 meters per minute (50 feet per minute) or less as described in the "Monitoring and/or Record keeping Requirements" section of this permit;
  - b. the parts baskets or the parts being cleaned in solvent cleaning machine shall not occupy more than 50 percent of the solvent/air interface area unless the parts baskets or parts are introduced at a speed of 0.9 meter per minute (3 feet per minute) or less;
  - c. any spraying operations shall be done within the vapor zone or within a section of the solvent cleaning machine that is not directly exposed to the ambient air (i.e., a baffled or enclosed area of the solvent cleaning machine);
  - d. parts shall be oriented so that the solvent drains from the freely. Parts having cavities or blind holes must be tipped or rotated before being removed from the solvent cleaning machine unless an equally effective approach has been approved by the Director (Ohio EPA Southwest District Office);
  - e. parts baskets or parts shall not be removed from the solvent cleaning machine until dripping has stopped;
  - f. during startup of the solvent cleaning machine, the primary condensers shall be turned on before the sump heater;
  - g. during shutdown of the solvent cleaning machine, the sump heater shall be turned off and the solvent vapor layer allowed to collapse before the primary condenser is turned off;

- h. when solvent is added or drained from the solvent cleaning machine, the solvent shall be transferred using threaded or other leakproof couplings and the end of the pipe in the solvent sump shall be located beneath the liquid solvent surface;
- i. the solvent cleaning machine and its associated controls shall be maintained as recommended by the manufacturers of the equipment or using alternative maintenance practices that have been demonstrated to the satisfaction of the Director (Ohio EPA Southwest District Office) to achieve the same or better results as those recommended by the manufacturer;
- j. the permittee shall complete and pass the applicable sections of the test of solvent cleaning operating procedures in 40 CFR Part 63, Appendix B if requested during an inspection by the Director (Ohio EPA Southwest District Office);
- k. waste solvent, still bottoms, and sump bottoms shall be collected and stored in closed containers. The closed containers may contain a device that would allow pressure relief, but must not allow liquid solvent to drain from the container; and,
- l. sponges, fabric, wood, and paper products shall not be cleaned.

**E. Monitoring and Record keeping**

- 1. The permittee shall monitor the hoist speed as described below:
  - a. the permittee shall determined the hoist speed by measuring the time it takes for the hoist to travel a measured distance. The speed is equal to the distance in meters divided by the time in minutes (meters per minute);
  - b. the permittee shall conduct monthly monitoring of the hoist speed. If after the first year, no exceedances of the hoist speed are measured, the permittee may begin monitoring the hoist speed quarterly;
  - c. if an exceedance of the hoist speed occurs during quarterly monitoring, the permittee shall return to a monthly monitoring frequency until another year of compliance without an exceedance is demonstrated; and,
  - d. if the permittee can demonstrate to the satisfaction of the Director (Ohio EPA Southwest District Office) in the initial compliance report that the hoist speed cannot exceed a speed of 3.4 meters per minute (11 feet per minute), the required monitoring frequency is quarterly, including during the first year of compliance.

2. The permittee shall maintain the following records in written or electronic form for the lifetime of the solvent cleaning machine:
  - a. owner's manuals, or if not available, written maintenance and operating procedures for the solvent cleaning machine and control equipment;
  - b. the date of installation for the solvent cleaning machine and all of its control devices. If the exact date for the installation is not known, a letter certifying that the cleaning machine and its control devices were installed prior to, or on, November 29, 1993, or after November 29, 1993, may be substituted; and,
  - c. records of the halogenated HAP solvent content for the solvent used in the solvent cleaning machine.
3. The permittee shall maintain the following records in written or electronic form for a period of five years for the solvent cleaning machine:
  - a. the results of control device monitoring required in this section of the permit;
  - b. information on the actions taken to comply with 40 CFR 63.463 (e) and (f), including records of written or verbal orders for replacement parts, a description of the repair made, and additional monitoring conducted to demonstrate that monitored parameters have returned to acceptable levels; and,
  - c. estimates of annual perchloroethylene consumption for the solvent cleaning machine.
4. The permittee shall maintain records of the initial performance test, including the idling emission rate and values of the monitoring parameters measured during the test. These records shall be maintained for the lifetime of the solvent cleaning machine.
5. The permittee shall conduct monitoring and record the results on a weekly basis for the superheated vapor system by using a thermometer or thermocouple to measure the temperature at the center of the superheated solvent vapor zone while the solvent cleaning machine is in the idling mode.
6. The permittee shall conduct monitoring and record the results on a monthly basis for the idling-mode cover by conducting a visual inspection to determine if the cover is opening and closing properly, completely covers the cleaning machine openings when closed, and is free of cracks, holes and other defects.

**F. Reporting**

1. The permittee shall submit an initial notification report as soon as practicable before the construction or reconstruction is planned to commence. This report shall include all of the

information required in 40 CFR 63.5 (d)(1) of Subpart A, with the following revisions and additions:

- a. the report shall include a brief description of the solvent cleaning machine type (batch vapor, batch cold, vapor in-line, or cold in-line), solvent/air interface area, and existing controls;
  - b. the report shall include the anticipated compliance approach for the solvent cleaning machine;
  - c. the report shall include an estimate of the annual perchloroethylene consumption for the solvent cleaning machine in lieu of the requirements of 40 CFR 63.5 (d)(1)(ii)(H), Subpart A.
2. The permittee shall submit an initial statement of compliance no later than 150 days after December 2, 1997. Each initial statement of compliance shall contain the following:
- a. the name and address of the permittee;
  - b. the address (i.e., physical location) of the solvent cleaning machine;
  - c. a list of the control equipment used to achieve compliance; and,
  - d. a list of the parameters that are monitored and the values of these parameters measured on or during the first month after the compliance date for each piece of control equipment required to be monitored.
3. The permittee shall submit an annual report by February 1 for each year of the preceding year. Each annual report shall contain the following:
- a. a signed statement from the facility owner or their designee stating that, "All operators of solvent cleaning machines have received training on the proper operation of solvent cleaning machines and their control devices sufficient to pass the test required pursuant to 40 CFR 63.463 (d)(10)"; and,
  - b. an estimate of solvent consumption during the reporting period.
4. The permittee shall submit an exceedance report on a semiannual basis. If the cover did not completely cover the cleaning machine openings when in place whenever parts were not in the solvent cleaning machine and/or if the cover had cracks, holes or other defects and no correction was made within 15 days of detection, the permittee shall begin to submit a quarterly report until such time that the permittee requests and receives approval of a less frequent reporting frequency from the Director (Ohio EPA Southwest District Office). The permittee may receive approval of less frequent reporting if the following conditions are met: (1) the emissions unit has demonstrated a full year of compliance without an exceedance, (2)

the permittee continues to comply with all relevant record keeping and monitoring requirements specified in 40 CFR 63.1, General Provisions, and (3) the Director (Ohio EPA Southwest District Office) does not object to a reduced frequency of reporting for the affected emissions unit as provided in paragraph (e)(3)(iii) of Subpart A, 40 CFR 63.1 General Provisions. Each exceedance report shall be delivered or post marked by the 30th day following the reporting period. Each exceedance report shall contain the following:

- a. the reason and a description of the exceedance and actions(s) taken to comply with 40 CFR 63.463 (e) and (f) including written or verbal orders for replacement parts, a description of the repairs made, and additional monitoring conducted to demonstrate that monitored parameters have returned to acceptable levels; and,
  - b. if no exceedance has occurred, a statement to that effect shall be submitted.
5. The permittee shall submit a test report for tests of idling emissions meeting the specifications in Method 307 of 40 CFR Part 63, Appendix A. This report shall comply with the following requirements:
- a. the test must be conducted on the same specific model solvent cleaning machine used at the facility. The test can be done by the permittee of the affected machine or can be supplied by the vendor of that solvent cleaning machine or a third party. If a solvent cleaning machine vendor or a third party test report is used to demonstrate compliance, the following requirements shall be met:
    - i. the report shall include the following for the solvent cleaning machine tested: name of person(s) or company that performed the test, model name, the date the solvent cleaning machine was tested, serial number, and a diagram of the solvent cleaning machine tested;
    - ii. the permittee shall comply with the following requirements:
      - aa. submit a statement by the solvent cleaning machine vendor that the unit tested is the same as the unit the report is being submitted for;
      - ab. demonstrate to the satisfaction of the Director (Ohio EPA Southwest District Office) that the perchloroethylene emissions from the solvent cleaning machine for which the test report is being submitted are equal to or less than the perchloroethylene emissions from the solvent cleaning machine in the vendor test report; and,
  - b. the report must clearly state the monitoring parameters, monitoring frequency and the delineation of exceedances for each parameter.

**G. Testing**

1. The permittee shall determine the idling emission rate of the solvent cleaning machine using Reference Method 307 in 40 CFR Part 63, Appendix A.
2. The permittee shall determine the facility's potential to emit (PTE) from all solvent cleaning operations. A facility's total PTE is the sum of the HAP emissions from all solvent cleaning operations plus all HAP emissions from other emissions units from within the facility. The potential to emit shall be determined in accordance with the following procedures:

- a. determine the potential to emit for each individual solvent cleaning machine using the following equation:

$$PTE_i = H_i \times W_i \times SAI_i$$

Where:

$PTE_i$  = the potential to emit for the solvent cleaning machine  $i$  (kilograms solvent per year)

$H_i$  = hours of operation for solvent cleaning machine  $i$  (hours per year).

= 8760 hours per year, unless otherwise restricted by a federally enforceable requirement.

$W_i$  = the working mode uncontrolled emission rate (kilograms per square meter per hour).

= 1.95 kilograms per square meter per hour for batch vapor and cold cleaning machines.

= 1.12 kilograms per square meter per hour for in-line cleaning machines.

$SAI_i$  = solvent/air interface area of solvent cleaning machine  $i$  (square meters). Section 63.461 defines the solvent/air interface area for those machines that have a solvent/air interface. Cleaning machines that do not have a solvent area interface shall calculate a solvent/air interface area using the procedure in paragraph (b) below;

- b. cleaning machines that do not have a solvent/air interface shall calculate a solvent/air interface area using the following equation:

$$SAI = 2.2 * (VOL) ^ 0.6$$

Where:

SAI = the solvent/air interface area (square meters).

Vol = the cleaning capacity of the solvent cleaning machine (cubic meters);  
and,

- c. sum the PTE<sub>i</sub> for all solvent cleaning operations to obtain the total potential to emit for solvent cleaning operations at the facility.

## VI. Anodizing Tanks

### A. Introduction

- 1. The emission unit P204 is an existing (installed prior to December 16, 1993) chromium anodizing operation. The MACT compliance method is through the use of a chemical fume suppressant containing a wetting agent to maintain the bath surface tension below 45 dynes/cm. Alternatively, the permittee may elect to comply with the 0.01 mg/dscm total chromium in exhaust standard.

### B. Applicable Emission Limitation/Control Requirements

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

### C. Operational Restrictions

- 1. At all times, including periods of startup, shutdown, and malfunction, the permittee shall operate and maintain the chromium anodizing tank, including associated air pollution control devices and monitoring equipment, in a manner consistent with the operation and maintenance plan required by these terms and conditions.
- 2. Malfunctions shall be corrected as soon as practicable after their occurrence in accordance with the operation and maintenance plan.
- 3. Determination of whether acceptable operation and maintenance procedures are being used will be based on information available to the Ohio EPA Southwest District office, which may include, but is not limited to, monitoring results; review of the operation and maintenance plan, procedures, and records; and inspection of the emission unit. Based on this information,

the Ohio EPA Southwest District Office may require that the permittee make changes to the operation and maintenance plan if that plan:

- a. does not address a malfunction that has occurred;
  - b. fails to provide for the operation of the emission units, the air pollution control techniques, or the control system and process monitoring equipment during a malfunction in a manner consistent with good air pollution practices; or,
  - c. does not provide adequate procedures for correcting malfunctioning process equipment, air pollution control techniques, or monitoring equipment as quickly as practicable.
4. The permittee shall prepare an operation and maintenance plan to be implemented no later than January 24, 1997. The plan shall include the following elements:
- a. the plan shall specify the operation and maintenance criteria for the affected source, the add-on air pollution control device (if such a device is used to comply with the 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;
  - b. if a stalagmometer is used for monitoring, follow the manufacturer's recommendations;
  - c. the plan shall specify procedure to be followed to ensure that equipment or process malfunctions due to poor maintenance or other preventable conditions do not occur;
  - d. the plan shall include a systematic procedure for identifying malfunctions of process equipment, add-on air pollution control devices, and process and control system monitoring equipment, and for implementing corrective actions to address such malfunctions;
  - e. if the operation and maintenance plan fails to address or inadequately addresses an event that meets the characteristics of a malfunction at the time the plan is initially developed, the permittee shall revise the operation and maintenance plan within 45 days after such an event occurs;
  - f. if actions taken by the permittee during periods of malfunction are inconsistent with the procedures specified in the operation and maintenance plan, the permittee shall record the actions taken for that event and shall report such actions within 2 working days after commencing actions inconsistent with the plan. This report shall be followed by a letter within 7 working days after the end of the event, unless the permittee makes alternative reporting arrangements, in advance, with the Ohio EPA Southwest District Office;

- g. the permittee shall keep the written operation and maintenance plan on record after it is developed to be made available for inspection, upon request, by the Ohio EPA Southwest District Office for the life of the emission unit. If the operation and maintenance plan is revised, the permittee shall keep previous versions of the plan on record to be made available for inspection, upon request, by the Ohio EPA Southwest District Office for a period of five years after each revision to the plan; and,
- h. the permittee may use applicable standard operating procedure (SOP) manuals, Occupational Safety and Health Administration (OSHA) plans, or other existing plans to meet the operation and maintenance plan requirements as long as the alternative plans meet the requirements.

**D. Monitoring and Record keeping**

- 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 also shall maintain the following records:
  - a. inspection records for the add-on air pollution control device, if such a device is used, and monitoring equipment, to document that the inspection and maintenance required by the work practice standards of this permit have taken place. The record can take the form of a checklist and should identify the device inspected, the date of inspection, a brief description of the working condition of the device during the inspection, and any actions taken to correct deficiencies found during the inspection;
  - b. records of all maintenance performed on the emissions unit, add-on air pollution control device, and monitoring equipment;
  - c. records of the occurrence, duration, and cause (if known) of each malfunction of process, add-on air pollution control device, and monitoring equipment;
  - d. records of actions taken during periods of malfunction when such actions are inconsistent with the operation and maintenance plan;
  - e. other records, which may take the form of checklists, necessary to demonstrate consistence with the provisions of the operation and maintenance plan;
  - f. test reports documenting results of all performance tests;
  - g. all measurements as may be necessary to determine the conditions of performance tests;
  - h. records of monitoring data that are used to demonstrate compliance with the standard including the date and time the data are collected;

- i. the specific identification (i.e., the date and time of commencement and completion) of each period of excess emissions, as indicated by monitoring data, that occurs during malfunction of the process, add-on air pollution control device, or monitoring equipment;
  - j. the specific identification (i.e., the date and time of commencement and completion) of each period of excess emissions, as indicated by monitoring data, that occurs during periods other than malfunction of the process, add-on air pollution control device, or monitoring equipment;
  - k. the total process operating time of the emission unit during the reporting period;
  - l. all documentation supporting the notifications and reports as outlined in the Reporting Requirements of this permit and 63.9 and 63.10 of 40 CFR Part 63, Subpart A; and,
  - m. records of the bath components purchased, with the wetting agent clearly identified as a bath constituent contained in one of the components.
3. All records shall be maintained for a period of five years.

**E. Reporting Requirements**

1. The permittee shall fulfill all reporting requirements as outlined in 40 CFR Part 63 Subpart A. These reports shall be made to the Ohio EPA Southwest District Office 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 Ohio EPA Southwest District Office on or before the specified date.
2. The permittee shall submit to the Ohio EPA Southwest District Office 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; and,
  - e. a brief description of each affected emission unit, including the type of process operation performed.

3. The permittee shall submit a Notification of Compliance Status to the Ohio EPA Southwest District Office no later than February 24, 1996, signed by the responsible official who shall certify its accuracy, attesting to whether the affected emissions unit is in compliance. The notification shall list for each affected emissions unit:
  - a. the applicable emission limitations and the methods there were used to determine compliance with this limitation;
  - b. if a performance test is required, the test report documenting the results of the performance test, which includes the elements required in the Test Requirements section of this permit, including measurements and calculations to support special compliance provisions for multiple emission units controlled by a common add-on air pollution control device;
  - c. the type and quantity of hazardous air pollutants emitted by the emissions unit reported in mg/dscm or mg/hour if the emissions unit is using the special provisions for multiple emission units controlled by a common add-on air pollution control device. (For emissions units not required to conduct a performance test, the surface tension measurement may fulfill this requirement.)
  - d. for each monitored parameter for which a compliant value was established, the specific operating parameter value, or range of values, that corresponds to compliance with the applicable emission limit;
  - e. the methods that will be used to determine continuous compliance;
  - f. a description of the air pollution control technique used for each emission point;
  - g. a statement that the permittee has competed and has on file the operation and maintenance plan as required by the work practice standards; and,
  - h. a statement by the owner or operator as to whether the emissions unit is in compliance.
4. The permittee shall report to the Ohio EPA Southwest District Office the results of any performance test conducted. The report shall be submitted no later than 90 days following the completion of the performance test, and shall be submitted as part of the notification of compliance status report required by this section.
5. The permittee shall prepare an ongoing compliance status report annually (unless a request to reduce frequency of ongoing compliance status reports has been approved) to the Ohio EPA Southwest District Office to document the ongoing compliance status of the emissions unit. This report shall include the following:
  - a. the company name and address of the emissions unit;

- b. an identification of the operating parameter that is monitored for compliance determination;
  - c. the relevant emission limitation for the emissions unit, and the operating parameter value, or range of values, that correspond to compliance with this emission limitation as specified in the Notification of Compliance Status required by this section;
  - d. the beginning and ending dates of the reporting period;
  - e. the total operating time of the emissions unit during the reporting period;
  - f. a summary of operating parameter values, including the total duration of excess emissions during the reporting period as indicated by those values, the total duration of excess emissions expressed as a percent of the total emissions unit operating time during that reporting period, and a breakdown of the total duration of excess emissions during the reporting period into those that are due to process upsets, control equipment malfunctions, other known causes, and unknown causes;
  - g. a certification by a responsible official that the work practice standards in this permit were followed in accordance with the operation and maintenance plan for the emissions unit;
  - h. if the operation and maintenance plan required by this permit was not followed, an explanation of the reasons for not following the provisions, an assessment of whether any excess emission and/or parameter monitoring exceedances are believed to have occurred, and a copy of the reports required by the work practices in this permit;
  - i. a description of any changes in monitoring, processes, or controls since the last reporting period;
  - j. the name, title, and signature of the responsible official who is certifying the accuracy of the report;
  - k. the date of the report; and,
  - l. the report shall be completed annually and retained on site, and made available to the Ohio EPA Southwest District Office upon request.
6. The permittee shall submit semiannual reports if the following conditions are met:
- a. the total duration of excess emissions is one percent or greater of the total operating time for the reporting period; and,

- b. the total duration of malfunctions of the add-on air pollution control device and monitoring equipment is 5 percent or greater of the total operating time.
7. Once the permittee reports an exceedance, ongoing compliance status reports shall be submitted semiannually until a request to reduce reporting frequency is approved.
8. The Ohio EPA Southwest District Office 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 emission unit.
9. 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; and,
  - c. the Ohio EPA Southwest District Office 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 Ohio EPA Southwest District Office in writing of its intentions to make such a change. The Ohio EPA Southwest 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 Ohio EPA Southwest District Office will notify the permittee in writing within 45 days after receiving notice. This notification will specify the grounds on which the disapproval is based. In the absence of a notice of disapproval within 45 days, approval is automatically granted; and,
    - ii. if monitoring data show that the emissions unit is not in compliance with the relevant emission limit, the frequency of reporting shall revert to semiannual, and the permittee shall state this exceedance in the ongoing compliance status report for the next reporting period. After demonstrating ongoing compliance

with the relevant emission limit for another full year, the permittee may again request approval to reduce the reporting frequency.

10. The permittee shall submit a notification of construction or reconstruction as soon as practicable before the construction or reconstruction has commenced to the Ohio EPA Southwest District Office which includes the following:
  - a. the permittee's name, title, and address;
  - b. the address (i.e., physical location) or proposed address of the affected emissions unit if different from the permittee's;
  - c. a notification of intention to construct or make any physical or operational changes to an affected emissions unit that may meet or has been determined to meet the criteria for a reconstruction as defined in 40 CFR Part 63.2;
  - d. an identification of 40 CFR Part 63, Subpart N as the basis for the notification;
  - e. the expected commencement and completion dates of the construction or reconstruction;
  - f. the anticipated date of (initial) startup;
  - g. the type of process operation to be performed (hard or decorative chromium electroplating or chromium anodizing);
  - h. a description of the air pollution control technique to be used to control emissions, such a preliminary design drawings and design capacity if an add-on air pollution control device is used; and,
  - i. an estimate of emissions based on engineering calculations and vendor information on control device efficiency, expressed in units consistent with the emissions limits of 40 CFR Part 63, Subpart N. Calculations of emission estimates should be in sufficient detail to permit assessment of the validity of the calculations.
  
11. If a reconstruction is to occur, the permittee shall submit as soon as practicable the following information to the Ohio EPA Southwest District Office:
  - 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; and,
- 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 Ohio EPA Southwest District Office satisfaction that the technical or economic limitations affected the emissions unit ability to comply with the relevant standard and how they do so.

**F. Testing Requirements**

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