



CHROMIUM ELECTROPLATING/ANODIZING

COMPLIANCE INSPECTION CHECKLIST

INSPECTION TYPE: ANNUAL (INS1, INS2) COMPLAINT/DISCOVERY (CI)
 RE-INSPECTION (FUI) ARMS COMPLAINT NO:

AIRS ID#: 1030306 **DATE:** 7/31/2007 **ARRIVE:** 2:40PM **DEPART:** 3:20PM

FACILITY NAME: DIXIE PLATING INC

FACILITY LOCATION: 5095 113th Ave N
CLEARWATER 33760

RESPONSIBLE OFFICIAL: JOHN EIDSCHUN **PHONE:** (727)573-2464

CONTACT NAME: KEITH EIDSCHUN **PHONE:** (

REMITTANCE YEAR: 2006 **ENTITLEMENT PERIOD:** 4/23/2006 / 4/23/2011
(effective date) (end date)

PART I: INSPECTION COMPLIANCE STATUS (check only one box)

IN COMPLIANCE MINOR Non-COMPLIANCE SIGNIFICANT Non-COMPLIANCE

PART II: CLASSIFICATION – Rule 62-213.300 FAC
 Facility type(s)/applicable standard as indicated on notification form:

1. **Hard Chromium Plating**

a. **Existing Large** (0.015 mg/dscm) b. **Existing Small** (0.03 mg/dscm) -----
 c. **New** (0.015 mg/dscm) ----- d. **Alternative Standard** for existing facilities
 (0.03 mg/dscm) using a rolling average of
 rectifier capacity (less than 60 million A-hr/year)

2. **Decorative Chromium Plating/Anodizing**

a. **Chromic Acid Bath**

1) Emissions of ≤ 0.01 mg/dscm (4.4×10^{-6} gr/dscf) -----
 2) Surface tension of ≤ 45 dynes/cm (3.1×10^{-3} lb-f/ft) -----
(May only be selected if a wetting agent is used.)

b. **Trivalent Chromium Bath**

1) With wetting agent -----
 2) Without wetting agent ≤ 0.01 mg/dscm (4.4×10^{-6} gr/dscf) -----

c. **Chromium Anodizing**

1) Emissions of ≤ 0.01 mg/dscm (4.4×10^{-6} gr/dscf) -----
 2) Surface tension of 45 dynes/cm (3.1×10^{-3} lb-f/ft) -----
(May only be selected if a wetting agent is used.)

PART III: CONTROL TECHNOLOGY – Rule 62-213.300 FAC

(Select control device)

DEVICE IN USE?

- 1. Composite Mesh Pad ----- Yes No
- 2. Fiber Bed Mist Eliminator ----- Yes No
- 3. Packed Bed Scrubber ----- Yes No
- 4. Packed Bed Scrubber/Composite Mesh Pad ----- Yes No
- 5. Foam Blanket Fume Suppressant ----- Yes No
- 6. Fume Suppressant w/ Wetting Agent ----- Yes No

Has the facility conducted an initial performance test to establish monitoring parameters? Yes No N/A
(Not required for sources using a wetting agent or 1-inch foam blanket thickness)

PART IV: RECORDKEEPING/REPORTING REQUIREMENTS – Rule 62-213.300(3)

Has the responsible official maintained the following records?

- 1. Quarterly inspection records for add-on air pollution control devices and monitoring equipment. (applicable only to a facility using a packed bed scrubber, fiber-bed mist eliminator, or composite mesh pad) ----- Yes No N/A
- 2. Operations and Maintenance Plan (OMP). (applicable only to a facility using a packed bed scrubber, fiber-bed mist eliminator, or composite mesh pad) ----- Yes No N/A
- 3. Maintenance records for the source, add-on pollution control devices, and monitoring equipment (equipment identified, date performed, description). ----- Yes No
- 4. Records of date of occurrence, duration, cause, and corrective action of each malfunction of process, add-on pollution control device, and monitoring equipment. Yes No
- 5. Results of all performance tests. ----- Yes No N/A
- 6. Records of monitoring data. (not applicable to trivalent chromium baths using a wetting agent) ----- Yes No N/A

Composite Mesh Pad

Measure the pressure drop across the CMP daily. ----- Yes No

Packed Bed Scrubber

Measure the pressure drop across the PBS and the inlet velocity daily. ----- Yes No

Fiber-Bed Mist Eliminator

Measure the pressure drop across the FBME and the upstream device daily. --- Yes No

Packed Bed Scrubber/Composite Mesh Pad

Measure the pressure drop across the CMP daily. ----- Yes No

Foam Blanket Fume Suppressant

Measure the foam blanket thickness at the appropriate interval.. ----- Yes No

Fume Suppressant w/ Wetting Agent

Measure the surface tension at the appropriate interval. ----- Yes No

- 7. Purchase records of wetting agent components. ----- Yes No N/A
- 8. Records of the date and time that fume suppressants are added to the bath. ---- Yes No N/A
- 9. Records of rectifier capacity, if used to determine facility size. ----- Yes No N/A
- 10. Records of the total process operating time. ----- Yes No
- 11. Records identifying specific periods of excess emissions. ----- Yes No
- 12. Startup, Shutdown & Malfunction Plan. ----- Yes No

Inspector's Name (Please Print)	Date of Inspection
	~ 2008
Inspector's Signature	Approximate Date of Next Inspection

COMMENTS: •During the inspection, I met with the responsible official/owner John Eidschun's and his son, Keith Eidschun, the facility contact, and Stephanie Wilson, the senior chemist.

- Mr. Keith Eidschun accompanied me on a tour of the operations. I reviewed the records and the tank operations. Keith stated he was now the plant manager, and Stephanie Wilson is performing the test of tanks and maintaining the record logs.. The as of 12/26/2006 the facility had gone to putting the records for the fume suppressant monitoring into their computer. (See photo).
- Keith stated the facility does not have additional contracts that require the use of the permitted tanks. The current was not on, and there were no parts in the tanks. The tanks were not in operation at this time. (See Photo).
- I reviewed the chromium and anodizing tanks record logs from 10/2006 through 7/2007. I observed the hourly readings for tank operation, and the surface tension tests results, and the dates for addition of the wetting agent Bench Brite –CR 1800. The records observed showed both tanks as being maintained below the required 45 dynes cm (3.1×10^{-3} lb-f/ft) for surface tension. The tanks are tested using a Kocour stalagmometer using EPA test method 306B.
- The highest monthly total for Decorative Chromium Plating tank operation was 24.08 hours for the month April 2007. The highest surface tension was 43.2 dynes /cm (3.1×10^{-3} lb-f/ft). On 5/17/2007 and 800 ML of Bench Brite CR- 1800 was added to the tanks.
- The highest monthly total for Anodizing Chromium tank operation was 47 hours for the month of June 2007. The highest monthly surface tension total was 43.9 dynes/cm (3.1×10^{-3} lb-f/ft) on 4/11/2007, and 1 Liter of Bench Brite CR- 1800 was added. I requested a MSD sheet for the fume suppressant.
- The facility has an emission limit of 1000 lbs usage for MEK. The total amount of MEK used during 2006 was 28 gal/189.20 lbs, and 19 gals for 2007. The facility is within the required limit. The MEK as has been taken off the HAP list is no longer a permitting concern.
- The facility maintains an O & M plan manual, and the emergency plan for operations procedures in case of malfunction, shutdown and etc. The plan had be revised last year
- I informed Keith, to have his father sign the annual certification, and also fax the MSD sheet for the Bench Brite CR- 1800 to our office. (Copy of fax in file)
- I received the mailed copy of completed annual certification form. (See copy in file).
- I gave them P2 Booklet for electroplating facilities waste management, and the mercury disposal pamphlet.