



CHROMIUM ELECTROPLATING/ANODIZING

COMPLIANCE INSPECTION CHECKLIST

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

AIRS ID#: 1030306 **DATE:** 12/10/2007 **ARRIVE:** 2:30PM **DEPART:** 3:15PM

FACILITY NAME: DIXIE PLATING INC

FACILITY LOCATION: 5095 113th Ave N
CLEARWATER 33760-4834

OWNER/AUTHORIZED REPRESENTATIVE: JOHN EIDSCHUN **PHONE:** (727)573-2464

CONTACT NAME: Keith Eidschun **PHONE:** (_____) _____

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 officials, the owner John Eidschun's and his son, Keith Eidschun, the facility contact, and Mike Flannigan, the new senior chemist.

- Mr. Keith Eidschun accompanied me on a tour of the operations. I reviewed the records and the tank operations. Keith is the plant manager, and Mike Flannigan replaced Stephanie Wilson as the manager over the chemical lab, Mr. Flannigan stated he has the technicians performing the test of tanks and maintaining the record logs. The facility is maintaining the records for the fume suppressant monitoring in their laptop computer. (See photo).
- Keith stated the facility regained one of their important clients for the anodizing tank, Lockheed Martin, but he has lost his decorative chromium tank customer, and there are no other additional contracts that require the use of the permitted tanks. The current was not on, and there were no parts in either of the tanks. The tanks were not in operation at this time. (See Photo). Mr. Eidschun stated they rarely have the decorative tank in operation.
- I reviewed the chromium and anodizing tanks record logs from 7/2007 through 11/2007. 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 wetting agent has not changed since previous inspection.
- 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 6.0 hours for the month September 2007. The highest surface tension was 37.73 dynes /cm (3.1×10^{-3} lb-f/ft). On 9/15/2007 and 300 ML of Bench Brite CR- 1800 was added to the tanks.
- The highest monthly total for Anodizing Chromium tank operation was 45.9 hours for the month of June 2007. The highest monthly surface tension total was 41.4 dynes/cm (3.1×10^{-3} lb-f/ft) on November 2007, and 600 Liter of Bench Brite CR-1800 was added. There is a copy of the MSD sheet for the fume suppressant already in permit.
- The facility has a permit emission limitation of 1000 lbs usage for MEK. The total amount of MEK used during 2007 was 25 gals or 150/lbs total for 2007. The facility is within the required limit. The MEK as has been taken off the HAP list.
- The facility maintains an O & M plan manual, and the emergency plan for operations procedures in case of malfunction, shutdown and etc.
- Mr. John Eidshun is the only responsible officials listed in the permit data base and according to the signed GP form submitted 2006. He will sign and mail the original to the AQ office
- I gave them P2R2 Booklet for electroplating facilities waste management, and P2 profit improvement pamphlet.