



CHROMIUM ELECTROPLATING/ANODIZING



COMPLIANCE INSPECTION CHECKLIST

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

AIRS ID#: 1030306 **DATE:** 9/15/2006 **ARRIVE:** 2:18 PM **DEPART:** 2:50PM
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: 2005 **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. <input type="checkbox"/> Composite Mesh Pad ----- | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 2. <input type="checkbox"/> Fiber Bed Mist Eliminator ----- | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 3. <input type="checkbox"/> Packed Bed Scrubber ----- | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 4. <input type="checkbox"/> Packed Bed Scrubber/Composite Mesh Pad ----- | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 5. <input type="checkbox"/> Foam Blanket Fume Suppressant ----- | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 6. <input type="checkbox"/> Fume Suppressant w/ Wetting Agent ----- | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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

August 1, 2007

Inspector's Signature

Approximate Date of Next Inspection**COMMENTS:**

- During the inspection, I met with the responsible official/owner John Eidschun's son, Keith Eidschun, the facility contact, Mr. Steve Harris, was no longer the operations manager.
- Mr. Keith Eidschun accompanied me on a tour of the operations. I reviewed the records and the tank operations. The responsible official, Mr. Eidschun was not in at this time. Keith stated he was now performing the test of tanks and maintaining the record logs, as he had been trained under Steve Harris prior to his retirement.
- Mr. Harris stated the facility does not have many 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 7/2005 through 8/2005. I observed the hourly readings for tank operation, and the surface tension tests results. Well as, dates for addition of the wetting agent Fumetrol. 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 highest monthly total for Decorative Chromium Plating tank operation was 39 hours for the month March 2006. The highest surface tension was 38 dynes /cm (3.1×10^{-3} lb-f/ft). On 9/15/06 and 600 ML of Fumetrol 140 was added to the tanks.
- The highest monthly total for Anodizing Chromium tank operation was 32 hours as of 9/15/2006. The highest monthly surface tension total was 33 dynes/cm (3.1×10^{-3} lb-f/ft) on 5/8/2006, and 750 ML of Fumetrol was added.
- 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. The facility is within the required limit. The MEK as has been taken off the HAP list is no longer a permitting concern.
- I reviewed the O & M plan manual, and the emergency plan for operations procedures in case of malfunction, shutdown and etc. I observed they had completed the revision of the manual. I noted the list of facilities for contact when an accident occurred. It did not list the A.Q. division. I gave them my business card and advised they should add our number to the list for required contacts. I informed them we should know if there was some accident or a change to the permitted tanks. I advised Mr. Keith Eidschun that contacting us could prevent possible violations of the permit. He stated they would add our office number to the emergency plan contact list, which they had recently updated.
- Mr. John Eidschun had not returned by the end of inspection. I informed Keith, I did not have him listed as the responsible official and he could not to sign the annual certification form. I asked him to have his father sign and mail to our office.
- I received the mailed 9/19/2006 copy of completed notification form. (See copy in file).