



# CHROMIUM ELECTROPLATING/ANODIZING



## COMPLIANCE INSPECTION CHECKLIST

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

**AIRS ID#:** 0112293 **DATE:** 10/20/2008 **ARRIVE:** 9:30AM **DEPART:** 11:00AM

**FACILITY NAME:** GULF PLATING

**FACILITY LOCATION:** 2501 NE 13TH AVE  
 WILTON MANORS 33305-1305

**OWNER/AUTHORIZED REPRESENTATIVE:** SANDRA RICHARDS **PHONE:** (954)567-0303

**CONTACT NAME:** **PHONE:**

**ENTITLEMENT PERIOD:** /  
 (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  $\leq 0.01$  mg/dscm ( $4.4 \times 10^{-6}$  gr/dscf) -----   
 2) Surface tension of  $\leq 45$  dynes/cm ( $3.1 \times 10^{-3}$  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  $\leq 0.01$  mg/dscm ( $4.4 \times 10^{-6}$  gr/dscf) -----

c. **Chromium Anodizing**

1) Emissions of  $\leq 0.01$  mg/dscm ( $4.4 \times 10^{-6}$  gr/dscf) -----   
 2) Surface tension of 45 dynes/cm ( $3.1 \times 10^{-3}$  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

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Inspector's Name (Please Print)

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Date of Inspection

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Inspector's Signature

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Approximate Date of Next Inspection

**COMMENTS:** In a compliance inspection conducted on 10/20/2008, AQD staff observed operations at Gulf Plating. AQD staff met with Sandra Richards (owner). The facility has a chromium tank and utilizes a wetting agent and measures surface tension. They recently purchased their own stalagmometer (measures surface tension). Prior to this the facility used a certified lab to conduct testing. The new equipment measures the tanks surface tension to be under 45 dynes/cm. Mrs. Richard's is utilizing the DEP compliance calendar for record-keeping purposes.