# CHROMIUM ELECTROPLATING/ANODIZING

## COMPLIANCE INSPECTION CHECKLIST

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

**AIRS ID#:** 1030333 **DATE:** 10/21/11 **ARRIVE:** 9:15 **DEPART:** 11:17

**FACILITY NAME:** M&P PLATING INC

**FACILITY LOCATION:** 700 37TH ST S

ST PETERSBURG 33711-2119

**OWNER/AUTHORIZED REPRESENTATIVE:** JOHN KUTCH **PHONE:** (727)327-5118
**Email:** jkutch2@yahoo.com **Mobile:** (727)515-8703
**CONTACT NAME:** PETER VALANTIEJUS **PHONE:** (727)327-5118
**Email:** nichroplat@aol.com **Mobile:** (727)341-1295
**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 $\leq$ 0.01mg/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

| | |
|---|---|
| Jeff Morris | 10/21/11 |
| Inspector's Name (Please Print) | Date of Inspection |
| | 10/21/12 |
| Inspector's Signature | Approximate Date of Next Inspection |

**COMMENTS:** 10/21/11 – An annual inspection revealed the facility failed to renew its GP. The current GP expired on 7/22/11 with the application deadline 30 days prior on 6/22/11. The facility was provided with the FDEP link to download the GP/worksheet. Later in the afternoon, the RO notified me that he completed the form and sent the original to FDEP with a copy to AQD.

The facility is in violation of 40 CFR 63.540 (13), General Conditions for All General Permits. Specifically, a permittee's use of general permit is limited to five years…. The permittee shall give notice of continued use of a general permit thirty days prior before it expires.

A project record has been recorded in access to follow–up and verify GP renewal submittal.

Additionally, Ni-Chro Plating (dba M & P Plating, Inc) had shut down its hard chromium plating effective Tuesday (10/18/11). The hard chromium tank lining was splitting away from the steel containment. The unspent hexavalent chromium was deposited in sealed plastic 55 gallon drums that were put in secondary containment. The company expects to be operating in 3-6 weeks and will inform Air Quality prior to restart including a follow-up letter to this office.

A review of the facility's last record on 10/14/11 before shut down indicated the following:

P1 = 0.79" in water. p1 is the static pressure across the packed bed scrubber that is measured daily and is limited to +/-1" in water. The static pressure was established during the Method 306 stack test on June 11, 1998.

P2 = 0.31" in water. p2 is the velocity pressure across the packed bed scrubber limited to +/-10% of 0.33" in water. The velocity pressure of 0.33" in water was established during the Method 306 stack test on June 11, 1998.

Total amp hours = 1,535 hrs.

A copy of the process data establishing the pressure limits from the Method 306 test is attached to the inspection report.