



CHROMIUM ELECTROPLATING/ANODIZING

COMPLIANCE INSPECTION CHECKLIST

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

AIRS ID#: 1030471 **DATE:** 1/18/07 **ARRIVE:** 10:15 a.m. **DEPART:** 11:00 a.m.

FACILITY NAME: NORRIS PRECISION MFG INC

FACILITY LOCATION: 4680 110th Ave North
CLEARWATER 33762

RESPONSIBLE OFFICIAL: MIKE WORLAND **PHONE:** (727)572-6330

CONTACT NAME: Mike Worland **PHONE:**

REMITTANCE YEAR: 2005 **ENTITLEMENT PERIOD:** 4/2/2005 / 4/2/2010
(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

Jeff Morris

1/18/07

Inspector's Name (Please Print)

Date of Inspection

Inspector's Signature

1/18/08

Approximate Date of Next Inspection

COMMENTS: Surface tension = 31.17 dynes/cm. Observed test 1.15 x 1140 / 52 drops = 31.846 dynes/cm [jm]