

Changes to 40 CFR 63, Subpart N

Hard & Decorative Chromium Electroplating and Chromium Anodizing Tanks including Trivalent Chromium Baths

Federal Register, September 19, 2012 (77 FR 58220)

Definitions:

Existing – Construction or reconstruction which commenced on or before **February 8, 2012**.

New – Construction or reconstruction which commenced after **February 8, 2012**.

Commenced – The owner or operator has undertaken a continuous program of construction or reconstruction or has entered into a contractual obligation to undertake a continuous program of construction or reconstruction.

Reconstruction – The replacement of rectifiers, anodes, heat exchanger equipment, circulation pumps or air agitation systems which exceeds 50 percent of the cost of installing a new Chromium Electroplating or Anodizing Tank.

Surface Tension – Fume suppressant and reductions in maximum surface tension:

September 21, 2015 - Additions of Perfluorooctane Sulfonic Acid or Perfluorooctane Sulfonate (PFOS) to any chromium electroplating and/or anodizing tank are prohibited after this date. EPA can grant a one year extension from this date to assist with compliance.

Stalagmometer – reduced from 45 to 40 dynes/cm

Tensiometer – reduced from 35 to 33 dynes/cm:

September 19, 2014 – existing operations

Upon startup - new or reconstructed operations

Emission Limit Reductions:

September 19, 2014 – existing operations

Open & enclosed hard chromium electroplating tanks

Large – reduced from 0.015 to 0.011 mg/dscm

Small – reduced from 0.030 to 0.015 mg/dscm

Decorative/Anodizing – reduced from 0.010 to 0.007 mg/dscm

Upon startup – new operations

Hard – 0.006 mg/dscm

Decorative/Anodizing – reduced from 0.010 to 0.006 mg/dscm

Performance test:

A facility which conducted a performance test after **January 25, 1995** which now operates using the same emission controls under the same operating conditions as present at the time of the test would not be required to retest.

Changes to recordkeeping:

In addition to maintaining surface tension measurement records and wetting addition records, the fume suppressant manufacturer and product name are now required as well.

Include Best Management Practices into your O&M Plan – put into practice after March 19, 2013:

- Store & Transport in closed containers; contain within an enclosure.
- Preventive measures: Drip trays, contain & return or collect & treat.
- Remove excess solution over tank.
- Separate from buffing, grinding and/or polishing using a barrier (e.g., plastic strip curtains).
- Begin cleanup within one hour of spill other than containment areas.
- Clean surfaces every seven days or forty hours of operation, whichever is later – storage and open floor areas; walkways around tank. Choose one or more of the follow methods:
 - HEPA Vacuuming;
 - Hand-wiping with damp cloth,
 - Wet mopping,
 - Rinse using potable water and collect in a treatment system,
 - Apply non-toxic dust suppressant.

Affirmative Defense to violating standards during startup, shutdown and malfunction:

The following information is required to support a claim of Affirmative Defense:

- Frequency, amount & duration of malfunction,
- Time needed to make repairs,
- Steps taken to minimize impact,
- Nature of malfunction, and
- Root cause analysis.