

Rule 1003 Decorative And Hard Chrome Plating And Chromic Acid Anodizing Facilities

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1. DECORATIVE CHROME PLATING REQUIREMENTS

- 1.1 No person shall operate a decorative chrome plating tank unless an anti-mist additive is continuously maintained in the plating tank, or control equipment is installed and used, in a manner which has been demonstrated to and approved by the Air Pollution Control Officer as reducing chromium emissions by 95 percent or more relative to chromium emissions when an anti-mist additive is not maintained, or control equipment is not installed and used.

2. HARD CHROME PLATING AND CHROMIC ACID ANODIZING FACILITIES REQUIREMENTS

- 2.1 The owners or operators of all hard chrome plating and chromic acid anodizing facilities shall maintain a continuous record of current integrated owner time (ampere-hours) for all plating tanks for each collection system used in the hard chrome plating or chromic acid anodizing operations.
- 2.2 No person shall operate a plating tank for hard chrome plating or chromic acid anodizing unless the tank has an emissions collection system.
- 2.3 No person shall operate a hard chrome plating or chromic acid anodizing tank unless:
- 2.3.1 The chromium emissions from the emissions collection system serving the plating tank have been reduced by 95 percent or more of the uncontrolled chromium emissions or,
- 2.3.2 The chromium emissions from the emissions collection system serving the plating tank have been reduced to less than 0.15 milligrams (mg) of chromium per ampere-hour of electrical charge applied to the plating tank.
- 2.4 No person shall operate a hard chrome plating tank or chromic acid anodizing tank at a facility if facility-wide chromium emissions from hard chrome plating or chromic acid anodizing are greater than 2 pounds per year, but less than 10 pounds per year, unless:
- 2.4.1 The chromium emissions from the emissions collection systems serving the plating tanks have been reduced by at least 99 percent of the uncontrolled chromium emissions from the hard chrome plating or chromic acid anodizing facility or,
- 2.4.2 The chromium emissions from the emissions collection systems are reduced to less than 0.03 mg of chromium per ampere-hour of electrical charge applied to the tanks.

2.5 No person shall operate a hard chrome plating or chromic acid anodizing tank at a facility if facility-wide chromium emissions from hard chrome plating or chromic acid anodizing are 10 pounds per year or greater unless:

2.5.1 The chromium emissions from the emissions collection systems serving the plating tanks have been reduced by at least 99.8 percent of the uncontrolled chromium emissions from the hard chrome plating or chromic acid anodizing facility or,

2.5.2 The chromium emissions for the emissions collection systems are reduced to less than 0.006 mg of chromium per ampere-hour electrical charge applied to the tanks.

3 COMPLIANCE SCHEDULE

3.1 All decorative and hard chrome plating facilities and chromic acid anodizing facilities shall comply with this rule prior to the start of operation.