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40 CFR Part 63.340 Chromium Electroplating and Anodizing Processes: NESHAP Emission Limits

April 1997

The Federal National Emission Standard for Hazardous Air Pollutants (NESHAP) affects all facilities that use chromium electroplating or anodizing tanks, regardless of size. What your facility must do to comply with the NESHAP depends on the size of your operation and what type of process you use (hard, decorative, or anodizing).

This fact sheet provides a general overview of the federal emission limits that affect chromium electroplating and anodizing operations; state and local regulatory agencies may have additional requirements. Additional technical information is available by calling the Small Business Assistance Program (SBAP) at the toll-free number below for free and confidential help.

Emission Limits

The NESHAP specifies emission limits, which are expressed as a concentration of chromium, that are based on the use of a certain control technique. Facilities may employ another control technique, provided the level of control equals or exceeds that of the specified technique. If you wish to use a substitute control technique, you must obtain approval from the U.S. Environmental Protection Agency (EPA) for the test methods and monitoring you will use to demonstrate compliance. Contact the EPA at the following location:

Conrad S. Simon
US EPA Region II - DECA
290 Broadway
New York, NY 10007-1866

The table on the reverse defines the emission limits that are required by the NESHAP.

Need more facts?

For technical assistance and for help with permitting, call the Small Business Assistance Program (SBAP) of the New York State Environmental Facilities Corporation
(800) 780-7227

For information about regulations, compliance financing assistance, and assistance resolving regulatory difficulties, contact the Environmental Ombudsman Unit of Empire State Development
(800) 782-8369

Both offer free and confidential assistance to small businesses.

The New York State
Small Business
Stationary Source

Technical
and
Environmental
Compliance
Assistance

Program

The information in this fact sheet is intended for general reference only; it is not a full and complete statement of the technical or legal requirements associated with the regulation.

NESHAP Emission Limits

Affected Tanks	Control Level ^a	Control Technique
<i>Hard Chromium Plating Tanks</i>		
Small, existing tanks ^b	0.03 mg/dscm (1.3 x 10 ⁻⁵ gr/dscf)	Packed-bed scrubber
Large, existing tanks and all new tanks	0.015 mg/dscm (6.6 x 10 ⁻⁶ gr/dscf)	Composite mesh-pad system
<i>Decorative Chromium Plating Tanks Using a Chromic Acid Bath</i>		
All tanks	0.01 mg/dscm (4.4 x 10 ⁻⁶ gr/dscf) or	Fume suppressant or
	45 dynes/cm (3.1 x 10 ⁻³ lb _f /ft)	Fume suppressant that contains wetting agent
<i>Decorative Chromium Plating Tanks Using a Trivalent Chromium Bath With a Wetting Agent</i>		
All tanks	Only subject to recordkeeping and reporting	
<i>Chromium Anodizing Tanks</i>		
All tanks	0.01 mg/dscm (4.4 x 10 ⁻⁶ gr/dscf) or	Fume suppressant or
	45 dynes/cm (3.1 x 10 ⁻³ lb _f /ft)	Fume suppressant that contains wetting agent

^a mg/dscm = milligrams per dry standard cubic meter of exhaust air

gr/dscf = grains per dry standard cubic feet of exhaust air

dynes/cm = dynes per centimeter

lb_f/ft = pound-force per foot

^b *Small* means a facility having a maximum potential rectifier capacity of less than 60 million ampere-hours per year (assuming an operating schedule of 8,400 hours per year and a 70% tank utilization) or an actual rectifier capacity of less than 60 million ampere-hours per year demonstrated through the use of nonresettable meters.

Existing means the tank was installed before December 16, 1993, which was the proposal date of the regulation