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40 CFR Part 63.340

Chromium Electroplating and Anodizing Processes: Ongoing Monitoring Under the NESHAP

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, what type of process you use (hard, decorative, or anodizing), and what control technique you use.

This fact sheet provides a general overview of the ongoing monitoring that chromium electroplating and anodizing operations must perform under federal requirements; 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.

Ongoing Monitoring

The NESHAP requires you to continuously monitor the operation of your air pollution control system to ensure ongoing compliance with the federal emissions limits. As outlined in the table on the reverse, you must regularly measure the same operating parameters that you (or your consultant) measured during the initial performance test and compare these new values to the standards set in your initial test. Exactly what parameters you must measure depends on the air pollution control technique you use to comply with the NESHAP. *Decorative chromium electroplating operations that use a trivalent chromium bath do not have to conduct ongoing monitoring.*

Your records of this ongoing monitoring will demonstrate your continuous compliance with the NESHAP to any enforcement agency, such as the New York State Department of Environmental Conservation (DEC) or the United States Environmental Protection Agency (EPA). The SBAP can provide sample forms to use for ongoing monitoring, or you may develop your own.

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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 Monitoring Requirements

Control Technique	Monitored Parameter ^a	Frequency
Composite mesh-pad system	Pressure drop across system	Daily
Packed-bed scrubber	Pressure drop across system	Daily
	Velocity pressure at system inlet	Daily
Combined packed-bed scrubber/ composite mesh-pad system	Pressure drop across the mesh-pad system	Daily
Fiber-bed mist eliminator	Pressure drop across the mist eliminator	Daily
	Pressure drop across the control device that prevents plugging, which is located upstream of the fiber bed	Daily
Wetting agent or combination wetting agent/foam blanket fume suppressants	Surface tension	Every 4 hours ^{b,c}
Foam blanket-type fume suppressants	Foam blanket thickness	Every hour ^{c,d}
Fume suppressants/ add-on control device	As identified above	

^a Acceptable values for these monitored parameters are established during initial performance testing.

^b *If the surface tension remains below the maximum surface tension after 40 hours of operation, then the monitoring frequency may be decreased to once every 8 hours.

*If the surface tension remains below the maximum for the next 40 hours, then the frequency can be decreased to once every 40 hours.

*If the surface tension exceeds the maximum at any time after that, then the initial monitoring schedule (every 4 hours) must be resumed.

^c The initial schedule must be resumed for every new tank solution.

^d *If the foam blanket thickness remains above the minimum thickness after 40 hours of operation, then the monitoring frequency may be decreased to once every 4 hours.

*If the foam blanket thickness remains above the minimum for the next 40 hours, then the frequency can be decreased to once every 8 hours.

*If the foam blanket thickness drops below the minimum at any time after that, then the initial monitoring schedule (every hour) must be resumed.