

NATIONAL EMISSION  
STANDARDS FOR  
CHROMIUM EMISSIONS  
FROM HARD &  
DECORATIVE CHROMIUM  
ELECTROPLATING &  
CHROMIUM ANODIZING  
TANKS

# CURRENT RULE BACKGROUND

- Promulgated – January 25, 1995  
[60 FR 4963]
- Established Standards
  - For small and large facilities which operate hard chromium electroplating tanks.
  - For new and existing decorative chromium electroplating tanks.
  - For new and existing chromium anodizing tanks.

# PROPOSED RULE AMENDMENTS

CHROME NESHAP  
40 PART 63 SUBPART N

# HARD CHROMIUM PROPOSED RULE AMENDMENTS

- The Hard Chrome Proposed Amendments Apply To The Following Facilities Criteria:
  - Operates hard chrome electroplating (ep) tank and uses fume suppressants for control.
  - Operates an enclosed hard chrome (ep) tank.
  - Replacement of chromium (ep) tank that may require reconstruction review.
  - Operates composite mesh pad control system

# DECORATIVE & ANODIZING CHROMIUM PROPOSED RULE AMENDMENTS

- These Amendments Apply To The Following Facilities Criteria:
  - Replacement of an anodizing tank that may require reconstruction review.
  - Operates composite mesh pad control system for emissions.
  - Operates decorative or anodizing tank that uses fume suppressants for emission control and uses a surface tension tensiometer.

# PROPOSED AMENDMENTS SUMMARY

- Chrome Electroplating NESHAP 40 CFR Part 63 Subpart N
  - Section 63.341 Definitions & Nomenclature
  - Section 63.342 Standards (b) (c)
  - Section 63.343 Compliance Provisions
  - Section 63.344 Performance Test Requirements and Test Methods
  - Section 63.347 Reporting Requirements

# PROPOSED AMENDMENTS

## SECTION 63.341

- Definitions & Nomenclature
  - Revise chrome plating & anodizing tank to include auxiliary equipment.
    - Result – source not subject to new emission requirements in accord with replacement and construction retrofits.
    - Result – not subject to new source emission requirements; provides for less stringent controls.

# PROPOSED AMENDMENTS

## SECTION 63.342

- Standards

- (b) Applicability of emission limitations.

- applies for routine tank operation; including startup and shutdown.

- emission limitations do not apply to malfunctions.

# PROPOSED AMENDMENTS

## SECTION 63.342

- Standards

- (c) (1) Standards for open surface hard chromium electroplating tanks.

- Detailed rules for controlling chromium emission discharges to the atmosphere.
    - Must comply with fume suppressant maximum surface tension value.
    - Must conduct surface tension measurements; see M306B and Sections 63.343 & 63.344.

# PROPOSED AMENDMENTS

## SECTION 63.342

- Standards

- (c)(2) Standards for enclosed hard chromium electroplating tanks.

- Detailed rules for controlling chromium emission discharges to the atmosphere.

- Must conduct surface tension measurements; see M306B and Sections 63.343 & 63.344.

- Mass emission rate must not exceed maximum allowed as determined in 63.344.

# PROPOSED AMENDMENTS

## SECTION 63.342

- Standards

- (c)(2) Standards for enclosed hard chromium electroplating tanks.

- Facility operation Options:

- Option to meet a mass emission limit (mg/hr) in lieu of current concentration standard (ug/dscm).
      - Option allows source to calculate mass emission limit based on concentration standard (because of lower exhaust rates).

# PROPOSED AMENDMENTS

## SECTION 63.343

- Compliance Provisions

- Initial Performance Test

- If, facility meets following criteria, Performance Test Not Required.
      - Source is a hard chromium electroplating tank.
      - Wetting agent is used to inhibit chrome emissions.
      - Source complies with surface tension limit.
      - Source performs compliance surface tension monitoring.

# PROPOSED AMENDMENTS

## SECTION 63.343

- Compliance Provisions
  - Composite mesh pad system pressure drop.
  - Facility site-specific operating parameters to be amended.
    - Modifies composite mesh pad system pressure drop monitoring requirements.
    - Increases current 1" pressure drop limit to 2".
    - Improves regulatory options and flexibility.

# PROPOSED AMENDMENTS

## SECTION 63.344

- Performance Test Requirements and Test Methods

(f) Compliance provisions for the mass rate emission standard for enclosed hard chromium (ep) tanks.

- Identifies procedures for calculating maximum allowable mass emission rates.
- Provides guidance for alternative mass emission limit compliance.

# PROPOSED AMENDMENTS PACKAGE

- Part 63 Proposed Amendments Status
  - Proposed June 5, 2002 for comments.
  - Comments were due by August 5, 2002.
  - Reopening for 60 day comment period.
  - 60 day notice to be published in Federal Register November 2002.
- Proposed Amendments Posted on Web:  
[www.epa.gov/ttn/oarpg](http://www.epa.gov/ttn/oarpg)

# PROPOSED AMENDMENTS PACKAGE

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