



# **Airborne Toxic Control Measure (ATCM) for Chromium Electroplating and Chromic Acid Anodizing Operations**

February 1, 2024

# Chrome Plating

- Chromium Electroplating
  - Deposits a layer of chromium metal onto the surface of a part
- Chromic Acid Anodizing
  - Creates an oxide layer on the surface of an aluminum part



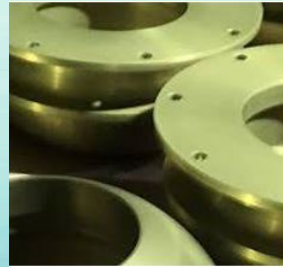
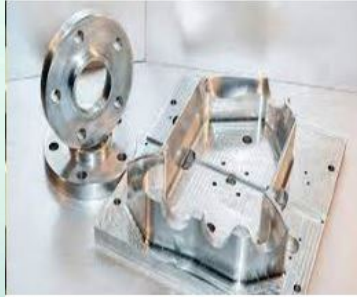
Decorative  
Chrome



Hard  
Chrome



Chromic  
Acid  
Anodizing



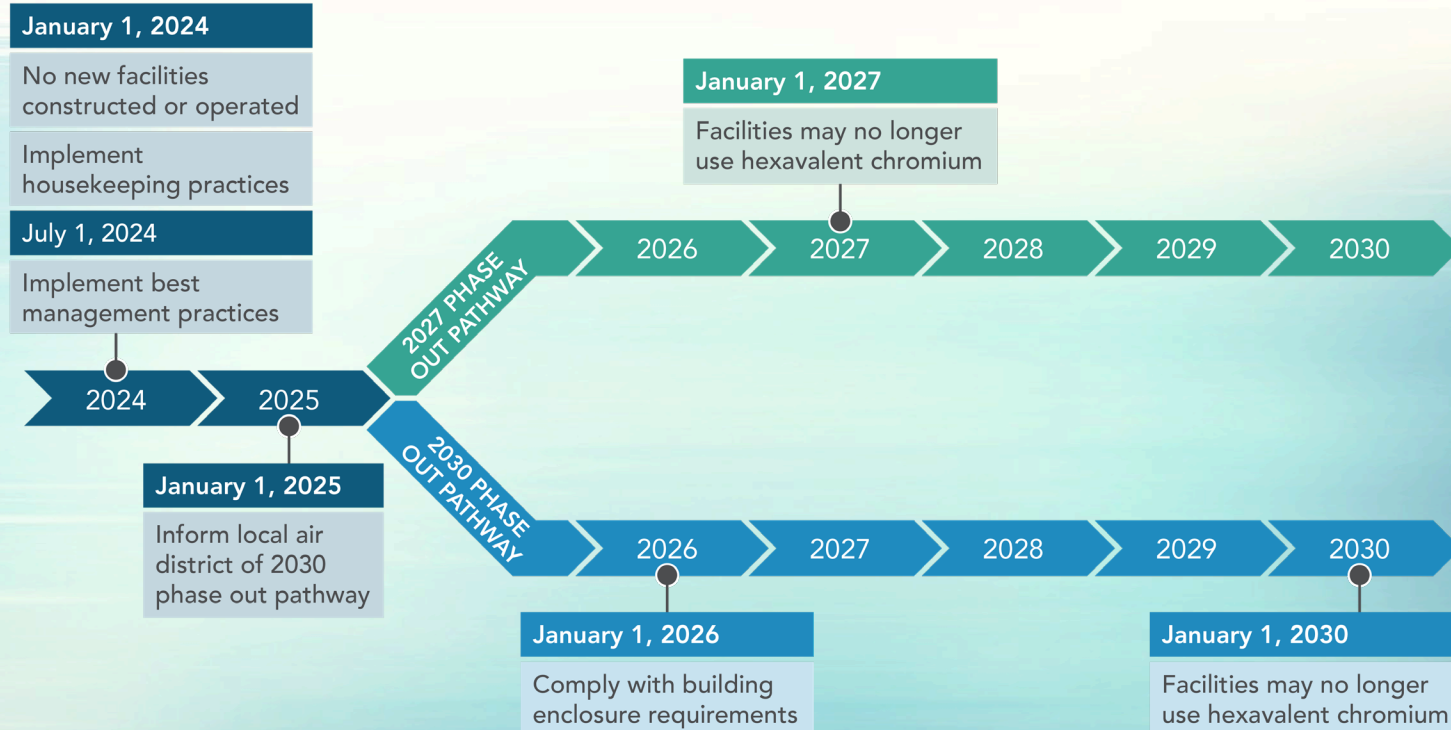
# Why Amend This Regulation

- Chrome plating facilities emit highly toxic hexavalent chromium
- Facilities located close to residences and schools
- Fugitive emissions of hexavalent chromium are a concern
- Less toxic alternatives exists

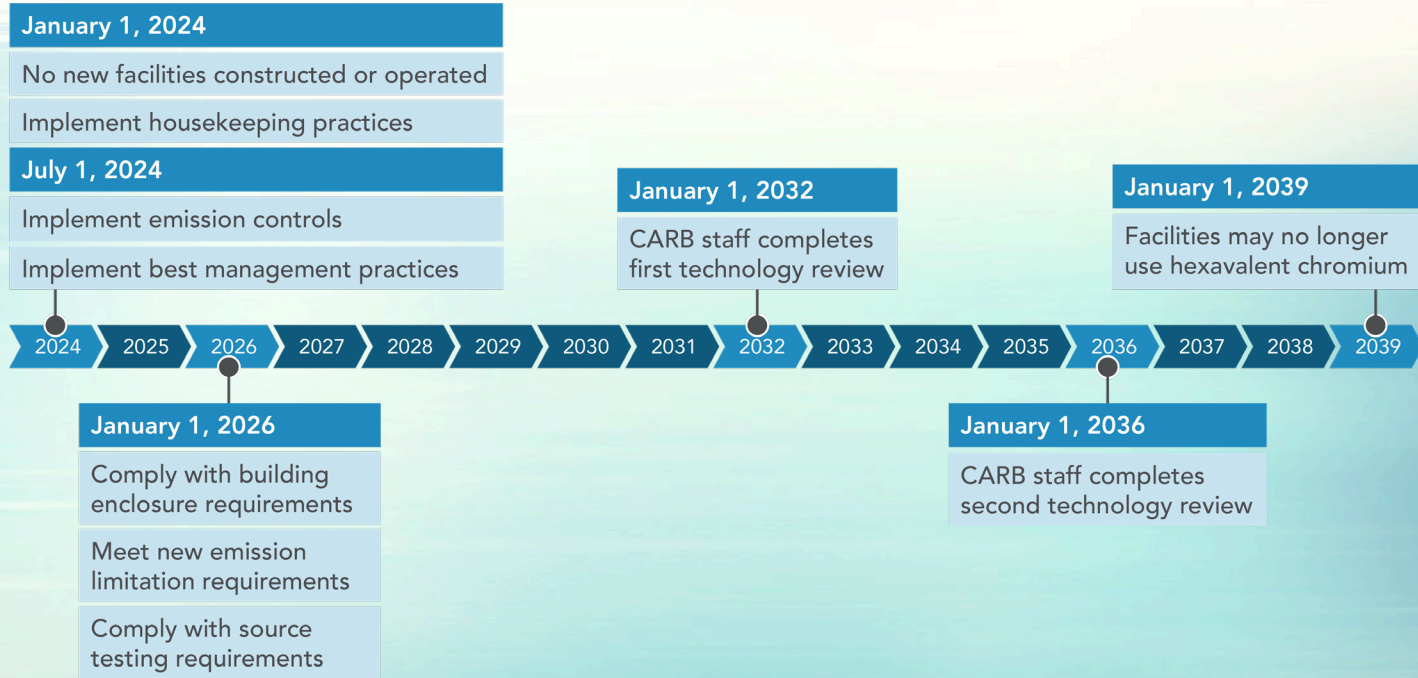
# Trivalent Chromium is a Less Toxic Alternative

- Not a carcinogen
- Primarily used in decorative chrome plating
  - Slight color difference
- Currently in use at California chrome plating facilities
- In development for other applications

# Decorative Chrome Plating



# Hard Chrome Plating & Chromic Acid Anodizing



# Implementation

- Training
- \$10 million in legislative funding
- AB 617 - Community Air Protection funding
- Prioritize funding to facilities transitioning by 2027



# Thank you!

- [chromeplatingatcm@arb.ca.gov](mailto:chromeplatingatcm@arb.ca.gov)
- hilary.minor@arb.ca.gov