



**Facility Contact**

Name and Position Title (Plant manager or person to be contacted regarding day-to-day operations at the facility.)

Print Name and Title: Kristie Roberts, General Manager

Facility Contact Telephone Numbers

Telephone: 863-619-2628

Fax: 863-646-5058

Cell phone:

E-mail: kristie.roberts@quality-aero.com

Facility Contact Mailing Address

Organization/Firm: Quality Aerospace Coatings

Mailing Address: 3536 DMG Drive

City: Lakeland

County: Polk

Zip Code: 33811 - 1039

**Other Contact/Representative (to serve as additional Department contact)**

Name and Position Title

Print Name and Title: Mark Norris, Quality Manager

Other Contact/Representative Telephone Numbers

Telephone: 863-619-2625

Fax: 863-646-5058

Cell phone:

E-mail: quality@quality-aero.com

Other Contact/Representative Mailing Address

Organization/Firm: Quality Aerospace Coatings

Mailing Address: 3536 DMG Drive

City: Lakeland

County: Polk

Zip Code: 33811 - 1039

**Facility Information**

1.a. Provide the information below for each hard electroplating machine at the facility. Indicate the type of machine, the date of its purchase, and the date the control device was installed, if applicable.

**HARD CHROMIUM PLATING TANKS**

DATE PURCHASED	UNIT CLASS (Check one)	DATE CONTROL DEVICE INSTALLED	CONTROL DEVICE (see key)	APPLICABLE STANDARD (see key)
	<input type="checkbox"/> New <input type="checkbox"/> Existing			
	<input type="checkbox"/> New <input type="checkbox"/> Existing			
	<input type="checkbox"/> New <input type="checkbox"/> Existing			
	<input type="checkbox"/> New <input type="checkbox"/> Existing			
	<input type="checkbox"/> New <input type="checkbox"/> Existing			
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	<input type="checkbox"/> New <input type="checkbox"/> Existing			
	<input type="checkbox"/> New <input type="checkbox"/> Existing			
	<input type="checkbox"/> New <input type="checkbox"/> Existing			

Key for Control Device Type

- PBS = packed-bed scrubber
- CMP = composite mesh pad
- PBS/CMP = packed-bed scrubber and composite mesh pad
- FS = fume suppressant only
- FS/WA = fume suppressant with a wetting agent
- FM = fiber-bed mist eliminator
- WA = wetting agent

Applicable Standard Key

- a = 0.03 mg/dscm
- b = 0.015 mg/dscm
- c = alternative standard for multiple tanks under common control

Is the facility's cumulative potential rectifier capacity greater than 60 million ampere-hours per year?

Yes  No

1. b. Provide the information below for each decorative electroplating or anodizing machine at the facility. Indicate the type of machine, the date of its purchase, and the date the control device was installed, if applicable.

**DECORATIVE AND ANODIZING TANKS**

DATE PURCHASED	UNIT CLASS (Check one)	DATE CONTROL DEVICE INSTALLED	CONTROL DEVICE (see key)	APPLICABLE STANDARD (see key)
October 2008	<input checked="" type="checkbox"/> New <input type="checkbox"/> Existing	March 2009	WA	Y
	<input type="checkbox"/> New <input type="checkbox"/> Existing			
	<input type="checkbox"/> New <input type="checkbox"/> Existing			
	<input type="checkbox"/> New <input type="checkbox"/> Existing			
	<input type="checkbox"/> New <input type="checkbox"/> Existing			
	<input type="checkbox"/> New <input type="checkbox"/> Existing			
	<input type="checkbox"/> New <input type="checkbox"/> Existing			
	<input type="checkbox"/> New <input type="checkbox"/> Existing			
	<input type="checkbox"/> New <input type="checkbox"/> Existing			
	<input type="checkbox"/> New <input type="checkbox"/> Existing			

### Key for Control Device Type

PBS = packed-bed scrubber  
CMP = composite mesh pad  
PBS/CMP = packed-bed scrubber and composite mesh pad  
FS = fume suppressant only  
FS/WA = fume suppressant with a wetting agent  
FM = fiber-bed mist eliminator  
WA = wetting agent

### Applicable Standard Key

x = 0.01 mg/dscm  
y = 45 dynes/cm  
z = records of bath components  
(trivalent Cr tanks only)  
c = alternative standard for multiple tanks  
under common control

2. Indicate how the facility will fulfill the compliance demonstration (check one):

- The facility will conduct an initial performance test
- The facility will use a wetting agent to reduce emissions and will meet the existing surface tension limit in No. 1 above.

### Helpful Definitions

**"Add-on Air Pollution Control Device"** - Equipment installed in the ventilation system of chromium electroplating and anodizing tanks for the purpose of collecting and containing chromium emissions from the tank(s).

**"Air Pollution Control Technique"** - Any method, such as an add-on air pollution control device or a chemical fume suppressant, that is used to reduce chromium emissions from chromium electroplating and chromium anodizing tanks.

**"Base Metal"** - The metal or metal alloy that comprises the workpiece.

**"Bath Component"** - The trade or brand name of each component(s) in trivalent chromium plating baths. For trivalent chromium baths, the bath composition is proprietary in most cases. Therefore, the trade or brand name for each component(s) can be used; however, the chemical name of the wetting agent contained in that component must be identified.

**"Chemical Fume Suppressant"** - Any chemical agent that reduces or suppresses fumes or mists at the surface of an electroplating or anodizing bath; another term for fume suppressant is mist suppressant.

**"Chromic Acid"** - The common name for chromium anhydride ( $\text{CrO}_3$ ).

**"Chromium Anodizing"** - The electrolytic process by which an oxide layer is produced on the surface of a base metal for functional purposes (e.g., corrosion resistance or electrical insulation) using a chromic acid solution. In chromium anodizing, the part to be anodized acts as the anode in the electrical circuit, and the chromic acid solution, with a concentration typically ranging from 50 to 100 grams per liter (g/L), serves as the electrolyte.

**"Chromium Electroplating or Chromium Anodizing Tank"** - The receptacle or container in which hard or decorative chromium electroplating or chromium anodizing occurs.

**"Composite Mesh-pad System"** - An add-on air pollution control device typically consisting of several mesh-pad stages. The purpose of the first stage is to remove large particles. Smaller particles are removed in the second stage, which consists of the composite mesh pad. A final stage may remove any retrained particles not collected by the composite mesh pad.

**"Construction"** - The fabrication (on-site), erection, or installation of a chromium electroplating or anodizing unit.

**"Decorative Chromium Electroplating"** - The process by which a thin layer of chromium (typically 0.003 to 2.5 microns) is electrodeposited on a base metal, plastic, or undercoating to provide a bright surface with wear and tarnish resistance. In this process, the part(s) serves as the cathode in the electrolytic cell and the solution serves as the electrolyte. Typical current density applied during this process ranges from 540 to 2,400 amperes per square meter ( $\text{A/m}^2$ ) for the total plating periods of 0.5 to 5 minutes.

**Quality Aerospace Coatings**  
**3536 DMG Drive**  
**Lakeland, FL 33811**

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