CHROMIUM ELECTROPLATERS AND ANODIZER RECEIVED AIR GENERAL PERMIT EXAMPLE REGISTRATION WORKSHEET SEP 13 2011

Facility Identification Number - If known (seven digit number)	DIVISION OF AIR RESOURCE MANAGEMENT
INKNUUN-M	
Registration Type	
Check one: INITIAL REGISTRATION - Notification of intent to:	
 Construct and operate a proposed new facility. Operate an existing permitted facility not currently using an air general permit (e.g from an air operation permit to an air general permit). If the facility currently hold permits, such permit(s) must be surrendered by the owner or operator upon the effer permit. (See "Surrender of Existing Air Operation Permit(s)" below.) Operates an existing facility not currently permitted or using an air general permit. 	s one or more air operation ective date of this air general
RE-REGISTRATION (for facilities currently using an air general permit) - Notificati Continue operating the facility after expiration of the current term of air general per Continue operating the facility after a change of ownership. Make an equipment change requiring re-registration pursuant to Rule 62-210.3100 Any other change not considered an administrative correction under Rule 62-210.	ermit use. 2)(e), F.A.C.
Surrender of Existing Air Operation Permit(s) - For Initial Registrations Only, if A All existing air operation permits for this facility are hereby surrendered upon the effective permit; specifically permit number(s):	
General Facility Information	
Facility Owner/Company Name (Name of corporation, agency, or individual owner who operates, controls, or supervises the facility.) JC Machine, Inc.	or which owns, leases,
Site Name (Name, if any, of the facility site; e.g., Plant A, Metropolis Plant, etc. If more complete registration must be submitted for each.) Quality Aerospace Coatings	than one facility is owned, a
<u>Facility Location</u> (Physical location of the facility, not necessarily the mailing address.) Street Address: 3536 DMG Drive	_
City: <u>Lakeland</u> County: <u>Polk</u> Zip Cod	le: <u>33811</u> - 10 3 9
Facility Start-Up Date (Estimated start-up date of proposed new facility.)(N/A for existin N/A	g facility.)

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

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

Fax: 863-646-5058

Fax: 863-646-5058

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

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)
	☐ New ☐ Existing			
	☐ New ☐ Existing			
	☐ New ☐ Existing			
	☐ New ☐ Existing			
	☐ New ☐ Existing			
	New Existing			
	New Existing			
	New Existing		<u> </u>	
	New Existing	L		
	New Existing			

Key for Control Device Type	Applicable Standard Key
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	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 Yes No	than 60 million ampere-hours per year?
1. b.Provide the information below for each decorative electr	oplating 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	UNIT CLASS	DATE	CONTROL	APPLICABLE
PURCHASED	(Check one)	CONTROL	DEVICE	STANDARD
	[DEVICE.	(see key)	(see key)
		INSTALLED		
October 2008	New Existing	March 2009	WA	Y
	New Existing			
	New Existing			
	☐ New ☐ Existing			
	☐ New ☐ Existing			
	☐ New ☐ Existing			
	☐ New ☐ Existing			
	☐ New ☐ Existing			
	☐ New ☐ Existing			
L	☐ New ☐ 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 or	2.	Indicate how the facil	ity will fulfill the o	compliance demonstrati	on (check on	e)
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The facility will cond	luct an initial perfor	mance test	
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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 (CrO₃).
- "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 (A/m²) for the total plating periods of 0.5 to 5 minutes.

Quality Aerospace Coatings 3536 DMG Drive Lakeland, FL 33811

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Receipts P.O. Box 3070 Tallahassee, FL 32315-3070

Department of Environmental Protection

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