

Florida Department of Environmental Protection

Bob Martinez Center 2600 Blair Stone Road Tallahassee, Florida 32399-2400 Charlie Crist Governor

Jeff Kottkamp Lt. Governor

Michael W. Sole Secretary-Designee

February 23, 2005

Mr. Gary Failler Aerothrust Corporation 5300 Northwest 36th Street Miami, Florida 33122

Re: Facility No.: 0251246-002

Dear Mr. Failler:

The Department has received the Title V General Permit Notification Form for the chromium electroplating and anodizing facility that you submitted on January 14, 2005.

Please note that in January of each year the Department will be mailing fee notices to those facilities using the Title V general permit. This annual operation fee is \$50 and it is due and payable between January 15 and March 1 of each year the facility is in operation and is subject to the requirements of the Title V general permit.

If you have or expect to have any changes in your mailing address, location address, responsible official, or phone number, please notify the Department at the following address:

Title V General Permits Office Bureau of Air Monitoring and Mobile Sources MS 5510 Department of Environmental Protection 2600 Blair Stone Road Tallahassee, FL 32399-2400

If there are any changes in the facility status, including change of operating parameters or equipment, or if you have any additional questions regarding the Title V General Permit Program, please contact the district or local air program compliance inspector in your area.

Sincerely,

Joseph Kahn, Chief
Bureau of Air Monitoring

and Mobile Sources

JK/jw

cc: Ms. Mallika Muthiah, Miami-Dade County

CHROMIUM ELECTROPLATING AND ANODIZING AIR GENERAL PERMIT NOTIFICATION FORM

Part III. Notification of Intent to Use General permit

Prior to filling out this form, please read the instructions provided at the end of the form. Send completed form to the address listed in the instructions and keep a copy of the form for your files.

Facility Name and Location		
1. Facility Owner/Company Name	(Name of corporation, agency,	or individual owner):
Mr. Jack Risco/Aerothrust Corp.		
2. Site Name (For example, plant r	iame or number):	
AeroThrust Corp.		
3. Hazardous Waste Generator Ide	ntification Number:	
F10080182744		
4. Facility Location: 5300 N.W. 36	th Ctroot	
4. Facility Location: 5300 N.W. 36 Street Address:	in. Sueet	
	Country Do do	7in Codo, 22122
City: Miami	County: Dade	Zip Code: 33122
5. Facility Identification Number (DEP Use ONLY - do not fill in):	The state of the s
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Responsible Official

6. Name and Title of Responsible Official:

Name: Mr. Garry Failler

Title: V.P. Engineering & Operation

Responsible Official Mailing Address: P.O.Box 522236 Miami – Florida 33152

Organization/Firm: AeroThrust Corp. Street Address: 5300 N.W. 36 St.

City: Miami

County: Dade

Zip Code: 33122

8. Responsible Official Telephone Number:

Telephone:

(305) - 871 1790

Fax: (305) - 305 526 7326

Facility Contact (If different from Responsible Official)

9. Name and Title of Facility Contact (For example, plant manager):

Carlos Carrera / Environmental & Safety Mgr.

10. Facility Contact Address: P.O. Box 522236. Miami – Florida 33152

Street Address: 5300 N.W. 36 St.

City: Miami

County: Dade

Zip Code: 33122

11. Facility Contact Telephone Number:

Telephone:

(305) - 526 7326

Fax: (305) - 526 7372

DEP Form No. 62-213.900(5)

Effective: 2/24/99

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	UNIT CLASS	DATE CNTRL	CONTROL	APPLICABLE
PURCHASED	(circle one)	DEVICE	DEVICE	STANDARD
		INSTALLED	(see key)	(see key)
12/16/93	New/Existing	12/16/93	CMP	0.03 mg/dscm
12/16/93	New/Existing	12/16/93	CMP	0.03 mg/dscm
12/16/93	New/Existing	12/16/93	CMP	0.03 mg/dscm
12/16/93	New/Existing	12/16/93	CMP	0.03 mg/dscm
12/16/93	New/Existing	12/16/93	CMP	0.03 mg/dscm
	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 [x] No	than 60 million ampere-hours per year?

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	UNIT CLASS	DATE CNTRL	CONTROL	APPLICABLE
PURCHASED	(circle one)	DEVICE	DEVICE	STANDARD
		INSTALLED	(see key)	(see key)
	New/Existing			
	New/Existing			,
	New/Existing			
	New/Existing			
	New/Existing			

DEP Form No. 62-213.900(5) Effective: 2/24/99

Key for Control Device Type		<u>Applica</u>	able Standard Key	
PBS = packed-bed scrubber CMP = composite mesh pad PBS/CMP = packed-bed scrub FS = fume suppressant only FS/WA = fume suppressant with FM = fiber-bed mist eliminato WA = wetting agent	ith a wetting agent	y = 45 c sh pad $z = recc$	l mg/dscm dynes/cm ords of bath components (trivalent Cr tanks only) rnative standard for multip under common control	le tanks
2. Indicate the date by which (Note: if your facility contains date)				ck each applicable
[] January 25,	1996 · [_X_]	January 25, 1997	7	
3. Indicate how the facility wi	ll fulfill the compliance	e demonstration:		
[_X] The facility	will conduct an initial	performance test [Test conducted in 1991 (A	ttach)
[] The facility limit in No.		nt to reduce emissi	ions and will meet the exist	ting surface tension
4. Equipment Monitoring and Check all logs which are requi			n the requirements of this g	eneral permit:
(a) Equipment maintenance	[_x]	(b) Equipment in	spection and repair	[x]
(c) Equipment malfunctions	[x]	(d) Operation and	d maintenance checklist	[x]
(e) Instrument calibration (used during initial performance	[_x_] ce test)	(f) Start-up, shu	tdown, malfunction plan	[x]
(g) Performance test results	[x]	(h) Equipment m	ionitoring	[x]
(i) Excess emissions	[_x]	(j) Operating pe	riods	[_x]
(k) Rectifier capacity	[_x_]	(l) Fume suppre	ssant records	[]
(m) Purchase records of wetting	g agent components	[]		
5. Surrender of Existing DEP	Air Permit(s)			
Please indicate with an "X" the	e appropriate selection	:		
	er all existing DEP air; the permit number(s)		ng operation of the facility	indicated in this
[] No DEP air perm	nits currently exist for t	he operation of th	ne facility indicated in this	notification form.

DEP Form No. 62-213.900(5) Effective: 2/24/99

Responsible Official Certification

I, the undersigned, am the responsible official, as defined in Part II of this form, of the facility addressed in this notification. I hereby certify, based on information and belief formed after reasonable inquiry, that the statements made in this notification are true, accurate and complete. Further, I agree to operate and maintain the air pollutant emissions units and air pollution control equipment described above so as to comply with all terms and conditions of this general permit as set forth in Part II of this notification form.

I will promptly notify the Department of any changes to the information contained in this notification.

GARRY FAILLER
Print name of responsible official.

Signature

Date

Jan. 1405

DEP Form No. 62-213.900(5)

Effective: 2/24/99

CHROMIUM TANKS SPECIFICATIONS

Thrust Corporation cess Unit Description

Oct 30, 1998

Chro	mium	_Pla	tina
C-11-C1		1-1-10	

Narrative: Small aircraft engine parts are chrome plated in any of five tanks of varying size. The dimensions and gallons of each tank are as listed as follows.

Chrome	Dimensions of Surface Area	Approx. Gallons	Capacity Rectifier AMPS
1	36" x 36"	180	150
2	36" x 60"	400	1000
3	36" x 84"	620	500
4	36" x 60"	400	500
5	36" x 120"	800	200 +1000
			3,350 total amps

At 8,760 hours the total AMP - HOUR capacity is 29, 346, 000 amp hours.

BEST AVAILABLE COPY

ius Aerothrust Corporation ه acility: 5300 NW 36th Street Miami FL 33152

Dry Chromium Scrubber Unit Description

Purpose: To clean chromium plating shop exhaust air of chromium mist and fumes.

Site Location of Unit: Central roof section of above facility address

Unit Components: 1 Greenhect Induction Draft Fan 30 Horse Power rated at 28,000

CFM

1 KCH Dry Demister Unit consisting of one set of two Chevron

Blades one set of three mesh pad demisters.

Installation Date: Jan 1991

Installation Initial Compliance Test: August 13-14 1991 EPA NEESHAP Study

Test Results Attached.

Chromium Exhaust Results: 4.162 ug dscm Average of three test runs. (3) 5" differential

Chromium Exhaust Limitation 30 ug dscm *

* Source Clean Air Act Emission Standards for "Small Unit Sources" less than 60 million Amp hour Chromium Electroplating Capacity.

602t0b0s12v1PMaintenance Schedule:

- 1. Differential Pressure Daily Check
- 2. Mechanical Inspection Quarterly
- 3. Periodic Washdown quarterly
- 4. Demand Washdown 5.5 " water Differential Pressure Drop

Read to A

SOURCE TEST REPORT for HEXAVALENT CHROMIUM

Demister

PLATING SCRUBBER INLET AND OUTLET
AEROTHRUST
MIAMI, FLORIDA

AUGUST 13 THROUGH 14, 1991

Prepared for:

UNIVERSITY OF CENTRAL FLORIDA CIVIL & ENVIRONMENTAL ENGINEERING ALAFAYA TRAIL AT UNIVERSITY ORLANDO, FLORIDA 32816-0450

Prepared by:

AIR CONSULTING AND ENGINEERING, INC. 2106 N.W. 67TH PLACE, SUITE 4 GAINESVILLE, FLORIDA 32606 (904) 335-1889

Table 1 Bexavelent Chromium Emission Results Scrubber Inlet and Outlet Ascrothrust Hinni, Florida August 13 -14, 1991

-				INI	INLET				with the same of t					
Run Humber	Time	Stack Temp.	Moisture	Flow Rate SCFHD	Standard Volume SCF	Total Cr +6 mg	Emissions lbs/Hr	Stack Temp.	Hoisturs \	Flow Rate SCFHS	Standard Volume SCF	Total Cr +6	Emlasions lbs/Br	Stirciesca Scripper
1	1000-1310	85.4	2.22	13187	81.186	0.762	0.016	90.4	2.18	13617	86.334	0.024	0.000\$	96.9
2	1400-1707	86.2	2.21	12168	76.524	1.188	0.025	92.0	1.45	14430	90,794	0.016	0,0003 3	94.4
١ 3	0500-1205	8 6.6	2.47	12844	113.147	1.459	0.022	90.3	1.65	14648	212.302	0.034	0.0002	79.1
14	1300-1703	87.7	2.43	12450-	144.734	1.417	0.016	92.9	1.44	14327	271.206	0.034	0.9002	98.8
lha/Ar	Cc +6 -		11		60 (SCTIO)					2., 14757	7 .*.		. (

60 (SCTIO) 158/Br Cr +6 -

0614257

Efficiency = Inlet = Outlet x 100

Average of Tein 2, 3, 44 (Test I had a low inlet concentration so give an unrepresentative low calculated scrubber efficiency based on outlet at detection brits come / Outlet Effic. % 1.188 mg x 35.31 sct 1000 ng = 548.2 ng <0.016 mg x 35,310 = 6.21 ng
76.52 scf scm rang scm 90.99 scf scm > 98.8 455./4 | 20.024 x 353/0 = 3.99 mg | > 99.7 ... 3 1,459 × 35310 345.7 mg | <0.028 x 55310 = 3.645 mg. > 98.9 4 1.417 × 35310 Aug -: < 4.612 1 > 99.0%

Pei	mit # (9259422-991-AO) PATS II) Issued 05/03/19	199 Expires	05/02/2004
oj#	//Name	Owner/Company **	Type / Sub	Received
01	/ OPERATING PERMIT	AEROTHRUST CORP	* AO + / 2C	09/09/1998
02	AFTER THE FACT CONSTUCTIONY.	AEROTHRUST CORP	AC / 1D	01/21/1999
03	/ AO RENEWAL	AEROTHRUST CORP	AO / 2B	04/05/2004
104	/ AEROTHRUST CORPORATION	AEROTHRUST CORP	AG / 01	01/14/2005
	/ PETERSON, GLEN O.	AEROTHRUST CORP.	AO. /	03/04/1982
	/ AEROTHRUST CORPORATION	AEROTHRUST CORP	AO / 00	12/30/1986
	/ AEROTHRUST CORPORATION	AEROTHRUST CORP	AO / 2C	02/27/1992
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