MARE ISLAND NAVAL SHIPYARD YARD ROUTE SLIP

Ser 460/20 21

CODE 460	STOP 032	1	W. J. CORNILS	W	EXTENSION	DATE
	TION		COORDINATE	PREPARE DRAFT	3375/2421	14 February 198
AS DISCUSSED			FILE	PREPARE FOR S		RETURN RETURN
COMMENT/CONCUR				REPORT BACK		
то	INITI	ALED	SUBJECT NEW BAY AREA AIR QUALITY MANAGEMENT DISTRICT HEXAVALENT			
CODE	ΒY	DATE	CHROME AIR STAN	IDARDS		Withhit .
400			COMMENTS			
300			Encl: (1) BAAQN	MD ltr of 20 Jan 8	8	
			1. Enclosure (1) advises Mare Island Naval Shipyard that it			
			must perform cert	tain tests on the	Plating Shop Ch	rome
Copy to:			Plating Operation	n and provide subs	equent informat	ion and
100			reports within 60	days (by 20 Mar	88).	
106						
107			2. Since in-hous	se capability to p	erform these te	sts is
380			doubtful, Code 46	00 is planning to	contract out all	, or part
461:1:1			of this work. This may cause us to miss the 60 day			
500			deadline. The im	nplication is that	after 60 days t	he chrome
950			4	may have to shut		
951			information has b	een provided to th	ne District.	
2300						
3480N			3. Code 300 is a	dvised to provide	contingency pla	unning in
NRRO (2)				ome Plating Operat		/
			project to replace existing chrome scrubbers with wet			
		·	electrostatic pred	cipitators should	also be initiat	ed. For
		,	further information	on contact L. Berl	ot, Code 461.1,	telephone
			extension 2421.			
	. \					



BAY AREA AIR QUALITY MANAGEMENT DISTRICT

ALAMEDA COUNTY Edward R. Campbell Shirley J. Campbell Chuck Corica Frank H. Ogawa

CONTRA COSTA COUNTY
Paul L. Cooper
Sunne Wright McPeak

MARIN COUNTY Al Aramburu (Chairperson)

NAPA COUNTY Harold I. Moskowite

SAN FRANCISCO COUNTY Harry G. Britt Jim Gonzalez

SAN MATEO COUNTY Gus J. Nicolopulos Anna Eshoo

SANTA CLARA COUNTY Rod Diridon Ralph P. Doetsch, Sr. (Vice-Chairperson) Roberta H. Hughan Susanne Wilson (Secretary)

SOLANO COUNTY Osby Davis

SONOMA COUNTY Helen B. Rudee January 20, 1988

Mare Island Naval Shipyard Vallejo, CA 94592

Attention:

Les Berlot

Code 461, Stop 032

Application Number: 465
Equipment Location:
Plating Shop, Bldg. 225
Vallejo, CA 93592

rile . ILD

April 20th

Gentlemen:

Your application for an Authority to Construct and/or Permit to Operate the following equipment:

S-436 Chrome Plating Tank, (T-4), 18.9ft2, 820 gal, 5000 amperes, Bldg. 225; S-437 Chrome Plating Tank, (T-3), 18.9ft², 820 gal., 5000 amperes, Bldg. 225; Vapor Degreaser, Detrex VS 800 S, 155 gal., S-438 Bldg 225; S-439 Chrome Plating Tank, (T-6), 17.7ft2, 410 gal, 3000 amperes, Bldg. 225; S-440 Chromic Acid Anodizing Tank, 7.3 ft2, 70 gal, 500 amperes, Bldg. 225; S-441 Chrome Plating Tank, (T-5), 12.6 ft², 100 gal, 5000 amperes, Bldg. 225; Paint Stripping Tank, 70 gal, Bldg. 225; S-443 Vapor Degreaser, 30" x 66" QZA, Bldg. 225; S-444 Paint Stripping Tank, 440 gal, Bldg. 225; S-445 S-446 Vapor Degreaser, Detrex VS 800 S, 155 gal, Bldg. 225; 4 X-436 Water Scrubber, Trane #U4F3419, 75 GPM, 25,000 CFM; Water Scrubber, Trane #U4F3419, 75 GPM, 25,000 CFM; Water Scrubber, Pace, 75 GPM, 18,000 CFM; Water Scrubber, Joy Axivane, 75 GPM, 15,000

Les Berlot Mare Island Naval Shipyard Application Number 465 January 20, 1988

has been assigned the above application number and is currently incomplete.

In order to complete our evaluation, we need the following:

- Please perform District approved source tests 1. for sources S436, S437, S441, S439, S440, A436, and A439. Submit a complete emssions report that includes mass emissions of chromium from plating tanks to scrubbers, mass emissions of chromium from scrubbers, and abatement efficiencies of scrubbers. Please include detailed operating parameters such as concentrations of chrome plating solutions, current density (amperes), type of substrate, size of substrate, and air flow rates. Please contact the District Source Test Section for approval of procedures and scheduling. Please notify Source Test Section and me at least two weeks prior to any testing.
- 2. Perform a cancer risk screen for hexavalent chromium to determine individual cancer risk caused by these emissions. If individual risk is greater than one in a million, perform a detailed health risk assessment for emissions of hexavalent chromium. Preliminary risk calculations based on Districts source tests #88056 and #88076 indicate worst case risk of 3 in thousand.
 - 3. Please submit air flow rates for each emission point.
 - Please submit all applicable forms for the other equipment located at this shop. I have enclosed extra G, P and A forms.

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The abatement devices that currently control chromium emissions may not be adequate. The Air Sources Board and the District are considering new control measures for emissions of hexavalent chromium from plating and anodizing operations. The ARB has proposed a level of control of 99.8% to achieve the lowest emission rate possible for large sources. This level of control is achievable by the use of wet electrostatic precipitators (ESP). The permitted level of control and emission rate will be based upon the source test data, cancer risk assessment, and proposed control measures.

Please submit the above items within 60 days. Your fees will be cancelled. Your application will be acted upon within 60 days of receipt of the above items. Construction of operation or equipment without an Authority to Construct or Permit to Operate can result in appropriate enforcement action.

Please include your application number with any correspondence with the District. If you have any futher questions, please call Permit Services at (415) 771-6000, extension 212.

Very truly yours,

Sott Lutz

Scott B. Lutz

Air Quality Engineer II Permit Services Division

SBL:djw