X21 - CADMIUM ELECTROPLATING, WET SCRUBBER CONTROLLED

CALCULATION METHODS

Ea = Ua x EF

Eh = Uh x EF

NOTES:

- Ua = Annual electrical usage, ampere-hour/year

- Uh = Maximum hourly electrical usage, ampere-hour/ hour

- Assume 75% control efficency for wet scrubber. See ARB Tech. Support Doc. to Proposed ATCM for Emissions of Cr+6 from Chrome Plating & Chromic Acid Anodizing Operations (Janu. 1988), Table III-2 and

ARB Tech. Guidance Doc. to the Criteria & Guidelines Reg. for AB2588 (Aug. 1989), page 44.

- Assume TSP = PM-10.

- Ci = Weight percent of other listed substance in solution, %.

- C Cr+6 = Weight percent of Cr+6 in solution, %.

- "OTHER" pollutants and their corresponding emission factors are to be manually entered.

- Assume 100% capture efficiency.

POLLUTANT	Emission Factor	REFERENCE	ARB	(UNITS)	COMMENTS
	(lbs/amp-hr)	DOCUMENT	FACTOR		
NOX					
CO					
SOX					
TOG					
ROG					
TSP	2.75E-8 x 1/C Cd	Assume TSP and PM-10 emissions are based on the average weight percent of cadmium in solution.			
PM10	2.75E-8 x 1/C Cd				
ALUMINUM					
ARSENIC					
BARIUM					
BERYLLIUM					
CADMIUM	2.75E-08	EPA's Toxic Air Pollutant Emission Factors - A Compilation for Selected Air Toxic Compounds and Sources (Oct. 1988) = 5 E-5 g Cd/amp-hr.			
OTHER	2.75E-8 x Ci/C Cd				

Last Updated on 8/23/99
By A. dela Cruz