X33 - CADMIUM CYANIDE ELECTROPLATING, HEPA FILTER 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 99% control efficency for HEPA filter.

- Assume TSP = PM-10.

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

- C Cd = 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	1.81E-07	Default TSP/PM-10 EF = Cd + CN EF's = 1.81E-7 lbs/amp-hr.			
PM10	1.81E-07	Assume TSP and PM-10 emissions are based on the average weight percent of cadmium in solution.			
ALUMINUM					
ARSENIC					
BARIUM					
BERYLLIUM					
CADMIUM	5.71E-08	AP-42 (July 1996), Table 12.20-4 = 0.04 grains Cd/amp-hr			
CYANIDE	1.23E-07	Cyanide EF determined using Cd EF and ratio of Cd in Cd(CN)2 = 5.71E-8 x [112.4/(26)(2)]			
OTHER	5.71E-8 x Ci/C Cd				

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