## CALCULATION METHODS $Ea = Ua \times EF$ $Eh = Uh \times EF$ 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 Ni = Weight percent of nickel in solution, %. "OTHER" pollutants and their corresponding emission factors are to be manually entered. Assume 100% capture efficiency. Emission POLLUTANT ARB (UNITS) COMMENTS REFERENCE Factor (lbs/amp-DOCUMENT FACTOR hr) NOX CO SOX TOG ROG TSP Assume that TSP and PM-10 are based on average weight percent of nickel in solution. 1/C Ni 1.80E-7 x PM10 1/C Ni ALUMINUM BERYLLIUM CADMIUM CHLORINE Average of : "EPA's Toxic Air Pollutant Emission Factors - A Compilation for Selected Air Toxic Compounds and Sources, Oct. 1988" (4.96E-7 lbs Ni/amp-hr), and "AP-42, Table 12.20-4, Oct. 2021" (5.29E-5 lbs Ni/amp-hr), and "South Coast AQMD's 2003 -2004 New Reporting Procedures for

AB2588 Facilities for Reporting their Quadrennial Air Toxics Emissions Inventory, June 2004" (5.10E-7

lbs Ni/amp-hr) times the control efficiency (1.00 - 0.99).

X43 - NICKEL ELECTROPLATING, HEPA FILTER CONTROLLED

NICKEL

OTHER

1.80E-07

1.80E-7 x

Ci/C Ni