

**M02 - METAL DEPOSITION, PLASMA SPRAY, HEPA FILTERS, CHEMTRONICS**

**CALCULATION METHODS**

$E_a = U_a \times C_i$  (lbs metal / lb material sprayed) x EF (lbs released/lb metal sprayed)

$E_h = U_h \times C_i$  (lbs metal / lb material sprayed) x EF (lbs released/lb metal sprayed)

**NOTES:**

- Annual ( $U_a$ ) and maximum hourly ( $U_h$ ) throughputs must be individually reported for each material sprayed.
- Emission factors are in units of (lbs individual metal released / lb individual metal sprayed) after controls.
- Site specific emission factors should be used where available.
- Default emission factors have been developed from the limited site specific data collected to date. These values will be updated as additional information is generated.
- Combustion related emissions of NO<sub>x</sub>, CO, SO<sub>x</sub>, PIC's, etc. are assumed to be negligible as no emissions information currently exists.
- Only very limited data regarding the conversion rate of chromium to hexavalent chromium exists. At this time, source test results are used for Cr+6 in lieu of a more standard approach.

| <b>POLLUTANT</b>           | <b>District Emission Factor</b> | <b>REFERENCE</b>                | <b>TEST</b>     | <b>(UNITS)</b>          | <b>COMMENTS</b>  |
|----------------------------|---------------------------------|---------------------------------|-----------------|-------------------------|--|
|                            | <b>(lbs/lb emissions)</b>       | <b>DOCUMENT</b>                 | <b>LOCATION</b> |                         |  |
| NOX                        |                                 |                                 |                 |                         |  |
| CO                         |                                 |                                 |                 |                         |  |
| SOX                        |                                 |                                 |                 |                         |  |
| TOG                        |                                 |                                 |                 |                         |  |
| ROG                        |                                 |                                 |                 |                         |  |
| TSP                        | 1.91E-05                        | average of Ni & Cr test results | CHEMTRONICS     | lbs/lb material sprayed | Base this estimate on overall usage (lbs of material)                                      |
| PM10                       | 1.91E-05                        | average of Ni & Cr test results | CHEMTRONICS     | lbs/lb material sprayed | Base this estimate on overall usage (lbs of material)                                      |
| ALUMINUM                   |                                 |                                 |                 |                         |  |
| ARSENIC                    |                                 |                                 |                 |                         |  |
| BARIUM                     |                                 |                                 |                 |                         |  |
| BERYLLIUM                  |                                 |                                 |                 |                         |  |
| CADMIUM                    |                                 |                                 |                 |                         |  |
| CHROMIUM HEXAVALENT        | 2.19E-06                        | Site Specific test result       |                 |                         |  |
| CHROMIUM NONHEXAVALANT     | 1.35E-05                        | Site Specific test result       |                 |                         |  |
| NICKEL                     | 2.24E-05                        | Site Specific test result       |                 |                         |  |
| * OTHER LISTED METALS<br>* | 1.91E-05                        | average of Ni & Cr test results |                 |                         | Assume other metals released at a rate equal to the average of the Ni & Cr (total) values. |
| ZINC                       |                                 |                                 |                 |                         |  |