S14 - SCREENING OPERATION, FINES MATERIAL, DRY, COVERED + INSERTABLE FILTERS, AWR / MPI / DISTRICT 4/9/96 METHODOLOGY

CALCULATION METHODS

(Fugitive Releases)

Ea = Ua x EF x Ci x (1 - 0.975)

Eh = Uh x EF x Ci x (1 - 0.975)

(Ducted Releases)

Ea = CFM x 60 x hrs/yr x (0.008 / 7000) x Ci

Eh = CFM x 60 x (0.008 / 7000) x Ci

NOTES:

- The AWR / MPI / District Screening Operation Emission Factors for this material are 0.07100 lbs PM10 and 0.15011 lbs TSP per ton material processed.

- The PM10 factor is based upon the uncontrolled Screening value in Section 11.19.2, Table 11.19.2-2 of AP-42 (1/95) and the District - AWR - MPI agreement dated 4/9/96.

- The TSP factor is calculated using a (0.74/0.35) ratio of particle size multipliers from Section 13.2.4 of AP-42 and the above PM10 value.

- The trace metal default concentrations are based on an AWR material analysis for crushed miscellaneous base, (Profile 7), submitted to the District in July 1996. Use site specific data if available.

- All ducted emissions for this type of control device are assumed to be released at an average rate of 0.008 grains / ft3. No additional capture or control efficiencies should be applied.

- Screens without covers and insertable filters (only) should not be calculated with this procedure.

- Per the AWR / MPI / District agreement;

- "Process" Material = Aggregate Streams composed of material that is 70% or more by weight > #4 mesh.
- "Fines" Material = Aggregate Streams composed of material that is 30+% by weight < #4 mesh.
- "Dry" Material = "Process" streams with an average moisture content of <1.5% and "Fines" streams with an average moisture content of <3.0%.
- "Wet" Material = "Process" streams with an average moisture content of 1.5% or more and "Fines" streams with an average moisture content of 3.0% or more.
- "Zero" emissions will be assumed for water washed aggregates with visible moisture as well as any material with an average moisture content of 5% or more.

POLLUTANT	Default Composition	EPA REFERENCE	AP-42	(UNITS)	COMMENTS
	(ppmw)	DOCUMENT	FACTOR		
NOX					
CO					
SOX					
TOG					
ROG					
TSP	1,000,000	AP-42, Sections 11.19.2 and 13.2.4 (1/95).			
PM10	1,000,000	AP-42, Sections 11.19.2 and 13.2.4 (1/95).			
ALUMINUM	15,000				Based on local test results.
ARSENIC	22				Based on local test results.
BARIUM	225				Based on local test results.
BERYLLIUM	1				Based on local test results.
CADMIUM	1				Based on local test results.
					Based on local test results. No Cr+6 detected in any samples

CHROMIUM HEXAVALENT	0				analyzed.
CHROMIUM NONHEXAVALENT	28				Based on local test results.
COBALT	11				Based on local test results.
COPPER	37				Based on local test results.
LEAD	50				Based on local test results.
MANGANESE	530				Based on local test results.
MERCURY	0				Based on local test results. No mercury detected in any samples analyzed.
NICKEL	28				Based on local test results.
SELENIUM	1				Based on local test results.
SILICA, CRYSTALLINE	100,000				Based on local test results.
ZINC	99				Based on local test results.

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