C22 - FINES CRUSHING, FINES MATERIAL, DRY, WATER SPRAY WITH SURFACTANT, AWR / MPI / DISTRICT 4/9/96 METHODOLOGY

CALCULATION METHODS

(Fugitive Releases)

Ea = Ua x EF x Ci x (1 - 0.75)

Eh = Uh x EF x Ci x (1 - 0.75)

(Ducted Releases)

Ea = 0

Eh = 0

NOTES:

- The AWR / MPI / District Crushing Operation Emission Factors for this material are 0.01500 lbs PM10 and 0.03171 lbs TSP per ton of material processed.

- The PM10 factor is based upon the uncontrolled PM10 fines crushing 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 emissions for this calculation procedure are assumed to be fugitive. No additional capture or control efficiencies should be applied.

- This emission estimation procedure is applicable to fines crushers with water spray controls using surfactants only.

- Per the AWR / MPI / District agreement;

"Primary Material" = Feed streams containing >4 inch material.

"Process" Material = Feed Streams containing material >1/2 inch and <4 inches.

"Fines" Material = Feed streams Exclusively containing material <1/2 inch, or

"Fines" Material = Crushers manufacturing product that is 30% or more 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.

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.
CHROMIUM HEXAVALENT	0				Based on local test results. No Cr+6 detected in any samples 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.

Last Updated on 8/25/99
By D. Byrnes