T09 - TRANSFER POINT, FINES MATERIAL, DRY, VENTED TO A CENTRAL BAGHOUSE, AWR / MPI / DISTRICT 4/9/96 METHODOLOGY

CALCULATION METHODS

(Fugitive Releases)

Ea = Ua x EF x (1 - 0.95) x Ci

Eh = Uh x EF x (1 - 0.95) x Ci

(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 Transfer Point Emission Factors for this material are 0.0014 lbs PM10 and 0.00296 lbs TSP per ton material processed.

- The PM10 factor is based upon the uncontrolled transfer point 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.

- Emission factors for this calculation procedure are based on the aggregate handling estimation method in Section 13.2.4 of AP-42 (1/95).

- The PM10 Emission Factor is representative of a transfer point with a material moisture content of 2% at a site with an average wind speed of 6 mph.

- 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.

- Per the 4/9/96 agreement, a capture efficiency of 95% will be assumed for the fugitive emissions and an emission rate of 0.008 grains/ft3 will be assumed for the baghouse.

- The CFM reported in the release point information for this transfer point should reflect only the portion of the overall baghouse air flow rate that is obtained from this collection point.

- Material transfer points without baghouse controls (only) should not be evaluated 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).			TSP factor = 0.00296 lbs TSP / ton material processed.
PM10	1,000,000	AP-42, Sections 11.19.2 and 13.2.4 (1/95).			PM10 factor = 0.0014 lbs PM10 / ton material processed.
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.

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