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Calculations Based On Information From Air Pollution Engineering Manual AP-42 And "FIRE 6.22" Emissions Factors Program From U.S. EPA

Reference Calculations Provided For : SCC-5-02-001-1
 (Standard Commercial Code Number For Human & Animal Cremation)
 NAICS 812220 Oregon SIC 4953

Calculations For :

Model Number **SQC-300** **Human Crematory**

Operating Schedule		Throughput			
Pounds Per Hour	100	Pounds	Tons	Average Case 200/Lbs	
Hrs/Day	8	800	0.4	Day ---->	4
Days Per Week	5	4,000	2.0	Week ---->	20
Days Per Year	260	208,000	104.0	Year ---->	1,040

Estimated
 <<<<< - Cases Per Year

TOTAL HOURS -----> 2080 Practicable Hours - Use Per Year
 23.74%

Factors are From
 EPA Guidelines

Fire 6.22 Factor (Lbs/ton) Burned

Pollutants	Lbs/Hr	Lbs/Day	Lbs/Year
PM-10 (Particulate)	0.24	1.88	489
SOx Table	0.13	1.00	260
NOx	0.15	1.20	312
VOC Table	0.15	1.20	312
CO	0.50	4.00	1,040
Totals	1.16	9.28	2,413

EPA Calculations Tons /Year
0.24
0.13
0.16
0.16
0.52
1.21

(ACTUAL) Tons From Test Report
0.09
0.13
0.16
0.16
0.04
0.57

Total Discharge Using AP-42 - Fire 6.22 Calculation

Opacity 0
 Combustion Efficiency : 99.987%

Total Using ACTUAL Test Reports For PM-10 & CO And EPA Factors The Total Tons Per Year Are ---> (About 50% less than calculated at the minimum levels considered by EPA)	0.57
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Actual Recent Test Performance As Recorded From Independent Test Laboratory

	Vancouver, Washington	June 13, 2006	Lbs/Hr	Lbs/Day	Lbs/Yr	
* PM-10 (Particulate)			0.084	0.67	174.72	0.09
* CO			0.04	0.32	83.20	0.04

Average acceptable Pollutants for a single source is generally approximately 25 tons per year
 but may vary based on local jurisdiction. 1 pound = 7,000 gr (grains)

	U.S. E.P.A. 0.1 gr/dscfm 100 PPM 5.00%		Many States : 0.08 gr/dscfm 100 PPM 5.00%
PM-10		3 Minutes/Per One Hour	3 Minutes/Per One Hour
CO			
Opacity			