

1998 Air Emission Calculations

Pollutant	Allowable Rate Tons per Year	Actual Emission Tons per Year
Particulate Matter	198.59	47.58
SO ₂	5.36	0.17
NO _x	198.72	38.76
CO	147.09	9.62
VOC	190.01	56.15
TRS	0	0.00
LEAD	0.56	0.00
CFCs/HCFs	0	0.00
Other	0	0.00
Total HAP's (VOC)	143.55	7.40
Total HAP's (Non-VOC)	7.74	2.59

1998 Natural Gas Usage (MMBTU) = **565798** MMBTU

TSP/PM10 Calculation

AP-42 factor = **0.005** lb/MMBTU

1.414 TPY

7/98

(Based on Stack testing)

From Fluid Bed & Rotary Dryers

Stack test (#/hr) = **6.40**

7.53

= **28.032** TPY

From Cyclone Dryer **10** **9.3**

Stack test (#/hr) = **5**

(Based on Stack testing)

= **12.775** TPY

? From New Cyclone Dryer (Started 9/97) (Based on Stack testing)

= **3.675** TPY

From Vinyl Silos (Based on Stack testing)

Stack test (#/hr) = **0.608**

= **2.663** TPY

From compd silos (Based on Stack testing)

Stack test (#/hr) = **0.90**

= **3.942** TPY

4 - 1.88 8 - .64

5 - 1.29 FB - 1.59

6 - 1.45

7 - .68

? 2520 * 1/12 = 21.90

= **3.675** TPY

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Total = **46.635** TPY ^{79.07}SO₂ Calculation

AP-42 factor = 0.0006 lb/MMBTU

0.1697 TPYNO_x Calculation

AP-42 factor = 0.137 lb/MMBTU

38.7572 TPY

CO Calculation

AP-42 factor = 0.034 lb/MMBTU

9.6186 TPY

1998 Natural Gas Usage =

565798 MMBTU

VOC Calculation

AP-42 factor = 0.0057 lb/MMBTU

1.613 TPY

Total VOC from Plasticizer =

40 TPY (Permitted Total)

Fugative VCM =

2.404 TPY

(Obtained from Environmental Coordinator)

VCM Stack Emissions =

4.7351 TPY

(EPA Method 107)

Total VCM Emissions =

7.1395 TPY

Fugative Methanol Stack Emissions =

0.260 TPY

Total Voc Emissions =

56.151 TPYVOC + VOC from plasticizer
+ Total VCM + MeOH

Total HAP's (Voc) =

7.3995 TPYTotal VCM
+ Fugative MeOH

Total HAP's (Non-Voc)

Lead Calculation

Total Lead Emissions =

0.0035

✓ TPY

SARA Lead F9/2000

HCl Calculation

Total HCl Emissions =

0.4376

✓ TPY

SARA HCl F31/2000

Chlorine Calculation

Total Chlorine Emissions =

2.1513

✓ TPY

SARA Chlorine M8/2000
(Incinerator
Stack
Emissions
ONLY!)**Total HAP's (Non-VOC) Emitted =**

2.5924

✓ TPY