

Calculations 32-0238

11/20/2007

Colgate-Palmolive
060782F

Condition 2

Boiler rating each <u>MMBTU</u> hr	# of boilers	Total <u>MMBTU</u> hr
28.6	2	= 57.2

AP42 Tables 1.4-1 & 1.4-2

Condition 3

Pollutant	2 Boilers	emission factor	conversion	Allowable	Max Operating	Allowable
	<u>MMBTU</u> hr	<u>lb</u> scf	<u>MMBTU</u> scf	<u>lb</u> hr	<u>hr</u> yr	<u>tons</u> yr
TSP	57.2	0.0000076	0.00102	0.4	8760	1.9
SO ₂	57.2	0.0000006	0.00102	0.03	8760	0.15
CO	57.2	0.000084	0.00102	4.7	8760	20.6
NO _x	57.2	0.0001	0.00102	5.6	8760	24.6
VOC	57.2	0.0000055	0.00102	0.3	8760	1.4

Notes: If my numbers were close, I used J. Martin's #s from construction permit. DAL
Calculations based on 1000 BTU/scf.
The TSP emission factor includes filterable and condensable particulate matter.

Condition 4

TAPCR 1200-3-6-.02(2)(a)

maximum allowable particulate emissions

$$E = 0.6 (10/Q)^{0.5566}$$

where Q is MMBTU/hr

where E is lb/MMBTU

$$E = 0.22729 \text{ lbs/MMBTU}$$

$$E = 0.23 \text{ lbs/MMBTU}$$

<u>MMBTU</u> hr	<u>lbs</u> MMBTU	=	<u>lbs</u> hr	
57.2	0.22729		13.00	
<u>hr</u> yr	<u>lbs</u> hr	=	<u>lbs</u> yr	<u>tons</u> yr
8760	13.00		113889	56.94