US Smokeless Tobacco Manufacturing Co.

Pollutants of Concern

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
1																	
2				Maximum							Maximum		Limited				
3	Permit ID#	Description	Hourly Operating Rate	Annual Operating Hours	Annual Operating Rate	Pollutant	Emission Factor	EF Source	Control Device	Control Efficiency	Hourly Potential	Annual Potential	Annual Operating Hours	Annual Operating Rate	Annual Potential		
4			(SCC Units/hr)	(Hrs/year)	(SCC Units/yr)		(lb/SCC Units)				(lb/hr)	(tons/year)	(Hrs/year)	(SCC Units/yr)	(tons/year)		
5																	
6	EU 01 (S101)	Tobacco Prizing Process,	9	8760	78840	PM10/PT	0.369	engr. est	None		3.32	14.55	4650	41850	7.72		
7		Feeder, Tipping Ordering	9	8760	78840	VOC	0.44	engr. est	None		3.96	17.34	4650	41850	9.21		
8		Cyliner, Scrap Dryer, Bundle	9	8760	78840	NH3	0.4		None		3.60	15.77	4650	41850	8.37		
9	EU 02 (S102)	Tobacco Threshing Process, SCC units = tons processed	9	8760	78840	PM10/PT	67.4	engr. est	fabric filter	0.98	12.13	53.14	4650	41850	28.21		
10	EU 03 (S103)	Tobacco Redryer (Strip Dryer), SCC units = tons processed	7	8760	61320	PM10/PT	0.124	engr. est.	None		0.87	3.80	4650	32550	2.02		
11			7	8760	61320	VOC	1.1	stack test	None		7.70	33.73	4650	32550	17.90		
12			7	8760	61320	NH3	0.2	engr. est.	None		1.40	6.13	4650	32550	3.26		
13																	
14	EU 04 (S104)	Stem Dryer, SCC units = tons processed	2.5	8760	21900	PM10/PT	0.199	engr. est	None		0.50	2.18	4650	11625	1.16		
15			2.5	8760	21900	VOC	1.1	stack test	None		2.75	12.05	4650	11625	6.39		
16			2.5	8760	21900	NH3	0.2	engr. est.	None		0.50	2.19	4650	11625	1.16		
17	EU 05 (201)	Casing Process, tons processed	12	8760	105120	PM10/PT	0.244	engr. est	None		2.93	12.82	4650	55800	6.81		
18			12	8760	105120	VOC	0.0625	mass bal.	None		0.75	3.29	4650	55800	1.74		
19	EU 06 (202A)	Dry Flour Line A - one dryer (fluidized bed) operating at 5	5	8760	43800	PM10/PT	4	stack test	multi-cyclone	0.75	5.00	21.90	4650	23250	11.63		
20		tons/hour, SCC units = tons processed	5	8760	43800	PM10/PT	0.28	stack test	multi-cyclone*		1.40	6.13	4650	23250	3.26		
21			5	8760	43800	VOC	1.5	stack test	None		7.50	32.85	4650	23250	17.44		
22			5	8760	43800	NH3	0.325	engr. est	None		1.63	7.12	4650	23250	3.78		
23			5	8760	43800	NOX	0.075	engr. est	None		0.38	1.64	4650	23250	0.87		
24			5	8760	43800	CO	1.2	stack test	None		6.00	26.28	4650	23250	13.95		
25			5	8760	43800	SO2	0.002	AP-42	None		0.01	0.04	4650	23250	0.02		
26	EU 06 (202B)	Dry Flour Line B -two dryers (Dryer1 - DLL, Dryer2 -	5	8760	43800	PM10/PT	0.41	engr. est	None		2.05	8.98	4650	23250	4.77		
27		Legg) operating in series, SCC units = tons processed	5	8760	43800	VOC	0.44	stack test	None		2.20	9.64	4650	23250	5.12		
28			5	8760	43800	NH3	0.325	engr. est	None		1.63	7.12	4650	23250	3.78		
29	EU 07 (01)	Boiler 1, 17 mmBtu/hour,	0.01674	8760	146.6424	PM10/PT	7.6	AP-42	None		0.13	0.56	8760	146.6424	0.56		
30		natural gas primary, SCC	0.01674	8760	146.6424	SO2	0.6	AP-42	None		0.01	0.04	8760	146.6424	0.04		
31		units = million cubic feet	0.01674	8760	146.6424	NOX	100	AP-42	None		1.67	7.33	8760	146.6424	7.33		
32			0.01674	8760	146.6424	CO	84	AP-42	None		1.41	6.16	8760	146.6424	6.16		
33			0.01674	8760	146.6424	VOC	5.5	AP-42	None		0.09	0.40	8760	146.6424	0.40		
34		Boiler 1, propane backup	0.18295	8760	1602.642	PM10/PT	0.6	AP-42	None		0.11	0.48	8760	1602.642	0.48		
35		fuel, SCC units = thousand	0.18295	8760	1602.642	SO2	0.055	AP-42	None		0.01	0.04	8760	1602.642	0.04		
36		gallons	0.18295	8760	1602.642	NOX	19	AP-42	None		3.48	15.23	8760	1602.642	15.23		
37			0.18295	8760	1602.642	CO	3.2	AP-42	None		0.59	2.56	8760	1602.642	2.56		
38			0.18295	8760	1602.642	VOC	0.5	AP-42	None		0.09	0.40	8760	1602.642	0.40		
39	EU 08 (01)	Boiler 2, 17 mmBtu/hour,	0.01674	8760	146.6424	PM10/PT	7.6	AP-42	None		0.13	0.56	8760	146.6424	0.56		
40		natural gas primary, SCC	0.01674	8760	146.6424	SO2	0.6	AP-42	None		0.01	0.04	8760	146.6424	0.04		
41		units = million cubic feet	0.01674	8760	146.6424	NOX	100	AP-42	None		1.67	7.33	8760	146.6424	7.33		

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3	Permit ID#	Description	Hourly Operating Rate	Annual Operating Hours	Annual Operating Rate	Pollutant	Emission Factor	EF Source	Control Device	Control Efficiency	Hourly Potential	Annual Potential	Annual Operating Hours	Annual Operating Rate	Annual Potential		
4			(SCC Units/hr)	(Hrs/year)	(SCC Units/yr)		(lb/SCC Units)				(lb/hr)	(tons/year)	(Hrs/year)	(SCC Units/yr)	(tons/year)		
42			0.01674	8760	146.6424	CO	84	AP-42	None		1.41	6.16	8760	146.6424	6.16		
43			0.01674	8760	146.6424	VOC	5.5	AP-42	None		0.09	0.40	8760	146.6424	0.40		
44		Boiler 2, propane backup	0.18295	8760	1602.642	PM	0.6	AP-42	None		0.11	0.48	8760	1602.642	0.48		
45		fuel, SCC units = thousand	0.18295	8760	1602.642	SO2	0.055	AP-42	None		0.01	0.04	8760	1602.642	0.04		
46		gallons	0.18295	8760	1602.642	NOX	19	AP-42	None		3.48	15.23	8760	1602.642	15.23		
47			0.18295	8760	1602.642	CO	3.2	AP-42	None		0.59	2.56	8760	1602.642	2.56		
48			0.18295	8760	1602.642	VOC	0.5	AP-42	None		0.09	0.40	8760	1602.642	0.40		
49	EU 09 (01)	Boiler 3, 25 mmBtu/hour,	0.02511	8760	219.9636	PM10/PT	7.6	AP-42	None		0.19	0.84	8760	219.9636	0.84		
50		natural gas primary, SCC	0.02511	8760	219.9636	SO2	0.6	AP-42	None		0.02	0.07	8760	219.9636	0.07		
51		units = million cubic feet	0.02511	8760	219.9636	NOX	100	AP-42	None		2.51	11.00	8760	219.9636	11.00		
52			0.02511	8760	219.9636	CO	84	AP-42	None		2.11	9.24	8760	219.9636	9.24		
53			0.02511	8760	219.9636	VOC	5.5	AP-42	None		0.14	0.60	8760	219.9636	0.60		
54		Boiler 3, propane backup	0.27443	8760	2404.007	PM	0.6	AP-42	None		0.16	0.72	8760	2404.0068	0.72		
55		fuel, SCC units = thousand	0.27443	8760	2404.007	SO2	0.055	AP-42	None		0.02	0.07	8760	2404.0068	0.07		
56		gallons	0.27443	8760	2404.007	NOX	19	AP-42	None		5.21	22.84	8760	2404.0068	22.84		
57			0.27443	8760	2404.007	CO	3.2	AP-42	None		0.88	3.85	8760	2404.0068	3.85		
58			0.27443	8760	2404.007	VOC	0.5	AP-42	None		0.14	0.60	8760	2404.0068	0.60		
59		Propane Heater (vaporizer),	0.0126	8760	110.376	PM10/PT	0.6	AP-42	None		0.01	0.03	8760	110.376	0.03		
60		SCC units = thousand	0.0126	8760	110.376	SO2	0.055	AP-42	None		0.00	0.00	8760	110.376	0.00		
61		gallons	0.0126	8760	110.376	NOX	19	AP-42	None		0.24	1.05	8760	110.376	1.05		
62			0.0126	8760	110.376	CO	3.2	AP-42	None		0.04	0.18	8760	110.376	0.18		
63			0.0126	8760	110.376	VOC	0.5	AP-42	None		0.01	0.03	8760	110.376	0.03		
64	EU 10 (01,	350 kW Emergency	0.026	8760	227.76	PM10/PT	8.46	manufact.	None		0.22	0.96	500	13	0.05		
65	02, 03)	Generator, SCC units =	0.026	8760	227.76	SO2	26.9	manufact.	None		0.70	3.06	500	13	0.17		
66		thousands of gallons	0.026	8760	227.76	NOX	255	manufact.	None		6.63	29.04	500	13	1.66		
67			0.026	8760	227.76	CO	68.1	manufact.	None		1.77	7.76	500	13	0.44		
68			0.026	8760	227.76	VOC	14.2	manufact.	None		0.37	1.62	500	13	0.09		
69		750 kW Emergency	0.055	8760	481.8	PM10/PT	4.09	manufact.	None		0.22	0.99	500	27.5	0.06		
70		Generator, SCC units =	0.055	8760	481.8	SO2	27.3	manufact.	None		1.50	6.58	500	27.5	0.38		
71		thousands of gallons	0.055	8760	481.8	NOX	363	manufact.	None		19.97	87.45	500	27.5	4.99		
72			0.055	8760	481.8	CO	6.37	manufact.	None		0.35	1.53	500	27.5	0.09		
73			0.055	8760	481.8	VOC	10	manufact.	None		0.55	2.41	500	27.5	0.14		
74		750 kW Emergency	0.055	8760	481.8	PM10/PT	4.09	manufact.	None		0.22	0.99	500	27.5	0.06		
75		Generator, SCC units =	0.055	8760	481.8	SO2	27.3	manufact.	None		1.50	6.58	500	27.5	0.38		
76		thousands of gallons	0.055	8760	481.8	NOX	363	manufact.	None		19.97	87.45	500	27.5	4.99		
77			0.055	8760	481.8	CO	6.37	manufact.	None		0.35	1.53	500	27.5	0.09		
78			0.055	8760	481.8	VOC	10	manufact.	None		0.55	2.41	500	27.5	0.14		
79		1750 kW Emergency	0.1283	8760	1123.908	PM10/PT	13.8	manufact.	None		1.77	7.75	500	64.15	0.44		
80		Generator, SCC units =	0.1283	8760	1123.908	SO2	42.9	manufact.	None		5.50	24.11	500	64.15	1.38		
81		thousands of gallons	0.1283	8760	1123.908	NOX	208.7	manufact.	None		26.78	117.28	500	64.15	6.69		
82			0.1283	8760	1123.908	CO	42.7	manufact.	None		5.48	24.00	500	64.15	1.37		
83			0.1283	8760	1123.908	VOC	12.3	manufact.	None		1.58	6.91	500	64.15	0.39		
84	EU 11 (01)	Pesticide Fogging, SCC units = gallons	2.5	8760	21900	VOC	6.9	MSDS	None		17.25	75.56	576	1440	4.97		
85	(501 & 601)	Pesticide Fumigation, SCC units = pounds	16.7	8760	146292	Phosphine	0.333	MSDS	None		5.56	24.36	288	4809.6	0.80		
86	EU 12 (203)	Cure Preparation Mixers	5.75	8760	50370	VOC	0.94		None		5.41	23.67	4650	26737.5	12.57		
87													Requested increase				
88																	

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1																	
2				Maximum							Maximum		Limited				
3	Permit ID#	Description	Hourly Operating Rate (SCC Units/hr)	Annual Operating Hours (Hrs/year)	Annual Operating Rate (SCC Units/yr)	Pollutant	Emission Factor (lb/SCC Units)	EF Source	Control Device	Control Efficiency	Hourly Potential (lb/hr)	Annual Potential (tons/year)	Annual Operating Hours (Hrs/year)	Annual Operating Rate (SCC Units/yr)	Annual Potential (tons/year)		
4																	
89	* See e-mail dated August 29, 2006. Part of the process is not controlled												Pollutant	Maximum PTE	Limited PTE		
90													PM10/PT	136.17	68.15		
91													VOC	222.90	77.53		
92													NOX	377.19	73.54		
93													SO2	40.53	2.48		
94													CO	82.83	37.67		
95													Phosphine	24.36	0.80		