EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 7711A

This table lists the maximum allowable emission rates and all sources of air contaminants on the applicant's property covered by this permit. The emission rates shown are those derived from information submitted as part of the application for permit and are the maximum rates allowed for these facilities. Any proposed increase in emission rates may require an application for a modification of the facilities covered by this permit.

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	TPY**
STILLYARD OPERATION				
HTR3	T-1 Laminating Adhesive Bulk Storage Tank Heater Vent	NO_x	0.05	0.22
		SO_2	0.01	0.01
		PM_{10}	0.01	0.02
		CO	0.04	0.18
		VOC	0.01	0.01
CECO1	T-1 and T-2 Laminating Adhesive Tanks CECO Filter Vent	VOC	0.03	0.17
		PM_{10}	0.01	0.02
HTR4	T-2 Laminating Adhesive Bulk Storage Tank Heater Vent	NO_x	0.05	0.22
		SO_2	0.01	0.01
		PM_{10}	0.01	0.02
		CO	0.04	0.18
		VOC	0.01	0.01
HTR 5	Asphalt Heater for T-14 and T-15 Coating Asphalt Storage Tank and Coating Asphalt Loop Feed Tank	NO_x	0.10	0.43
		SO_2	0.01	0.01
		PM_{10}	0.01	0.03
		CO	0.08	0.36
		VOC	0.01	0.02
BLR5	Standby Boiler Vent	NO_x	3.73	16.34
		SO_2	0.02	0.09
		PM_{10}	0.28	1.23
		CO	3.13	13.71
		VOC	0.21	0.92

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	TPY**
8	Boiler and Thermal Oxidizer Vent Controlling Tanks T-8, T-9, T-10, T-14, T-15, T-110, T-120, and Blowstills T-13 and T-26	NO_x	1.75	7.70
		SO_2	0.73	3.20
		PM_{10}	5.00	21.90
		CO	1.28	5.60
		VOC	0.09	0.40
COMMON TO LINE 1 AND LINE 3				
34	Electrostatic Precipitator (for Line 1 and 3) Stack	VOC	3.20	14.94
		PM_{10}	3.43	15.02
98	Rail 2 Stack	PM_{10}	4.63	4.59
		VOC	0.51	0.51
LINE No. 1 OPERATION				
1-1	Line 1 Stabilizer Storage and Heater Baghouse Stack	PM_{10}	0.23	1.01
1-3	Line 1 Stabilizer Use Bin Baghouse Stack	PM_{10}	0.03	0.13
1-4	Line 1 (Surfacing Section) Dust Collector Stack No. 1	PM_{10}	0.59	2.58
1-5	Line 1 (Surfacing Section) Dust Collector Stack No. 2	PM_{10}	0.59	2.58
1-6	Line 1 (Surfacing Section) Dust Collector Stack No. 3	PM_{10}	0.59	2.58
HTR1	Line 1 Stabilizer Thermal Fluid	NO_x	0.20	0.86

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	TPY**
	Heater Vent	SO_2	0.01	0.01
		PM_{10}	0.02	0.07
		CO	0.17	0.72
		VOC	0.01	0.05
HTR2	Line 1 Thermal Fluid Heater Vent	NO_x	0.20	0.86
		SO_2	0.01	0.01
		PM_{10}	0.02	0.07
		CO	0.17	0.72
		VOC	0.01	0.05
COOL1(total 3 stks)	Line No. 1 Cooling Section Exhaust	VOC	2.22	9.73
		PM_{10}	4.00	17.52
LINE 3 OPERATION				
25	Sand Application Baghouse Stack	PM_{10}	3.86	16.91
26A	Stabilizer Storage Baghouse Stack	PM_{10}	0.15	0.70
26B	Stabilizer Storage Baghouse Stack	PM_{10}	0.29	1.26
27	Stabilizer Heater Baghouse Stack	PM_{10}	0.09	0.40
28	Asphalt Heater Vent	NO_x	0.59	2.60
		SO_2	<0.01	0.02
		PM_{10}	0.04	0.20
		CO	0.50	2.20
		VOC	0.03	0.10
30	Hot Oil Heater Vent	NO_x	0.27	1.20

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	TPY**
	(Thermal Fluid Heater)	SO_2	<0.01	0.01
		PM_{10}	0.02	0.10
		CO	0.23	1.00
		VOC	0.01	0.04
FUG1	Plantwide Fugitive Emissions (4)	VOC	0.43	1.88
		PM_{10}	0.91	3.97
COOL3 (total 3 stks)	Line 3 Cooling Section (3 Exhaust)	VOC	3.38	14.80
	Fumes from Asphalt Coater	PM_{10}	6.00	26.30
HTR6	Line 3 Stabilizer Thermal Fluid	NO_x	0.60	2.58
	Heater Vent	SO_2	<0.01	0.02
		PM_{10}	0.05	0.20
		CO	0.49	2.16
		VOC	0.03	0.14

(1) Emission point identification - either specific equipment designation or emission point number from a plot plan.
(2) Specific point source names. For fugitive sources, use an area name or fugitive source name.
(3) NO_x - total oxides of nitrogen
SO_2 - sulfur dioxide
PM_{10} - particulate matter (PM) equal to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no particulate matter greater than 10 microns is emitted.
CO - carbon monoxide
VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

(4) Fugitive emissions are an estimate only.

* Emission rates are based on and the facilities are limited by the following maximum operating schedule:

24 Hrs/day 7 Days/week 52 Weeks/year or 8,760 Hrs/year

** Compliance with annual emission limits is based on a rolling 12-month period.

Maximum allowable Asphalt Throughput Rate: Line 1 at 24,886 lbs/hour
Line 3 at 41,472 lbs/hour

Maximum Allowable Production Rate (Line 1 plus Line 3): 171 tons/hour of finished shingles

1,498,000 tons/year of finished shingles

Dated October 21, 2004