EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 5572B

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**
19	A Line Pellet Silo	VOC	1.72	7.26
20	B Line Pellet Silo	VOC	2.41	8.12
23	Storage Hopper	PM_{10}	0.055	0.24
24	A/B Finishing and Shipping	PM	0.013	0.06
	Roof Fugitives	PM_{10}	0.01	0.03
30	Boiler A	VOC	0.22	0.96
		PM_{10}	0.65	2.86
		NO_x	6.67	29.2
		SO_2	0.029	0.13
		CO	1.67	7.30
31	Boiler B	VOC	0.22	0.96
		PM_{10}	0.65	2.86
		NO_x	6.67	29.2
		SO_2	0.029	0.13
		CO	1.67	7.30
33	Cooling Tower (4)	VOC	0.46	2.0
43	RH Loading	VOC	13.63	0.19
44	A/B Flare (5)	VOC	14.90	
		NO_x	1.18	
		SO_2	0.12	
		CO	8.39	

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**
54	Flare Gas Recovery System (CAS) (5)(6)	VOC	10.49	
44 and 54	A/B Flare and Flare Gas Recovery System (CAS) (5)	VOC		49.15
		NO_x		3.79
		SO_2		0.53
		CO	26.79	
46A	Tank D-104	VOC	9.90	0.57
46B	Tank D-105	VOC	9.90	0.57
49	Fugitives (4) (6)	VOC	4.10	19.61
52	A/B Finishing and Shipping System Losses	VOC	0.35	1.56
56/57	Alumina Bed Filters	VOC	0.26	0.074
110	Line No. 3 Pellet Silo	PM_{10}	0.017	0.19
		VOC 3.97	10.08	
111	Pellet Blending Silos	PM_{10}	1.75	3.82
112	Eultriator Bag Filter	PM_{10}	1.08	2.19
114	Extrusion Vents	PM_{10}	0.062	0.27
120	Boiler C	VOC	0.67	2.93
		PM	0.92	4.05
		NO_x	4.46	6.52
		SO_2	0.07	0.32
		CO	7.42	32.48

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**
130	New Cooling Tower (4)	VOC	1.01	4.42
140	C Flare	VOC	13.60	3.76
		NO_x	2.98	1.15
		SO_2	<0.01	<0.01
		CO	6.28	4.13
150	Line No. 3 Fugitives (4)	VOC	1.37	5.99
170	Wastewater Fugitives (4)	VOC	0.11	0.47
MAINTENANCE, START-UP, AND SHUTDOWN EMISSIONS				
140	C Flare Routine Start-Up and Shutdowns (7)	VOC	9.17	0.33
		NO_x	2.66	0.10
		CO	5.30	0.19

(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 area name or fugitive source name.
(3) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
PM - particulate matter suspended in the atmosphere including PM_{10}.
PM_{10} - particulate matter 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 in emitted.
NO_x - total oxides of nitrogen
SO_2 - sulfur dioxide
CO - carbon monoxide
(4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

(5) Process vents from the A and B polypropylene production lines are controlled either 100 percent in the A/B Flare (EPN 44), 100 percent in the Flare Gas Recovery System Carbon Adsorption System (CAS - EPN 54), or the process vents can be split between the two control devices. The flare gas recovery system CAS is operated such that the CAS outlet vent is routed to atmosphere if the VOC concentration is less than 10,000 ppmv and is routed back to the A/B Flare if the concentration is greater than 10,000 ppm.

(6) Includes emissions from the Recovery System Fugitives (EPN 55) added by incorporation of Standard Permit Number 31416 without best available control technology and impacts review.

(7) Emission rates are due to routine shutdowns/start-ups of the "C" polypropylene production line for maintenance purposes and routine product transitions at the "C" polypropylene production line.

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

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

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

Dated May 28, 2004