

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 Rates *	Source	Air Contaminant	<u>Emission</u>	
Point No. (1)	Name (2)	Name (3)	lb/hr	
TPY **				
19/20	A and B Line Pellet Silos	VOC	2.41	9.78
		Hexane (6)	1.54	6.74
23	Storage Hopper	PM ₁₀	0.055	0.24
24	A and B Finishing and Shipping Roof Fugitives	PM	0.013	0.06
		PM ₁₀	0.01	0.03
31	Boiler A	VOC	0.27	1.18
		PM ₁₀	0.37	1.63
		NO _x	5.56	24.33
		SO ₂	0.03	0.13
		CO	4.12	18.04
33	Cooling Tower	VOC	0.46	2.01
		Hexane (6)	0.16	0.7
43	RH Loading	VOC	13.63	0.19
44	A and B Flare (Routine + MSS Emissions)	VOC (6)	978.95	38.34
		NO _x	15.61	2.97
		SO ₂	0.12	0.53
		CO	178.99	21.55
	A and B Flare (MSS Emissions only)	Propylene (6)	683.39	5.31
		Hexane (6)	277.98	2.07
46A	Tank D-104 (5)	VOC	13.08	0.98
46B	Tank D-105 (5)	VOC	13.08	0.98

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Point No. (1)	Name (2)	Name (3)	lb/hr	
TPY **				
49	A and B Fugitives (4)	VOC	4.76	20.85
		Hexane (6)	1.48	6.48
52	A and B Finishing and Shipping System Losses	VOC	2.65	10.76
		Hexane (6)	1.72	6.97
56/57	Alumina Bed Filters	VOC	0.26	0.08
110	Line No. 3 Pellet Silo	PM ₁₀	0.017	0.19
		VOC	3.97	10.08
111	Pellet Blending Silo	PM ₁₀	1.01	4.41
112	Elutriator 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 ₁₀	0.92	4.05
		NO _x	4.46	10.86
		SO ₂	0.07	0.32
		CO	7.42	32.48
130	C Cooling Tower	VOC	1.01	4.42
140	C Flare (Routine + MSS Emissions)	VOC (6)	203.45	22.70
		NO _x	21.14	3.04
		SO ₂	0.01	0.01
		CO	142.5	15.48
	C Flare (MSS Emissions Only)	Propylene (6)	176.25	2.70
		Hexane (6)	0.01	0.01

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Point No. (1)	Name (2)	Name (3)	lb/hr	
TPY **				
150	Line No. 3 Fugitives (4)	VOC	1.78	7.77
170	Wastewater Fugitives	VOC	0.11	0.47
Maint_MSS	MSS Maintenance Activities	Propylene	0.08	0.04
		Hexane	1.99	0.02
Vessel_MSS		MSS Vessel Degassing	Propylene	
19.31			0.26	
		Hexane	16.28	0.20
Piping_MSS	MSS Pipe Openings	Propylene	0.66	0.11
Heat Ex_MSS	MSS Heat Exchanger Degassing	Propylene	0.01	0.01
		Hexane	27.49	0.16

- (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 PM₁₀
 PM₁₀ - particulate matter equal to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no PM greater than 10 microns in emitted.
 NO_x - total oxides of nitrogen
 SO₂ - sulfur dioxide
 CO - carbon monoxide
- (4) Emission rate is an estimate and compliance is demonstrated by meeting the requirements of the applicable special conditions and permit application representations.
- (5) Tanks D-104 and D-105 shall not be filled simultaneously.
- (6) Hexane and propylene emission rates are included in the VOC emissions.

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

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

8,760 hrs/year

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

Dated: July 12, 2010