

## 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 **				
31	Boiler A	VOC	0.27	1.18
		PM <sub>10</sub>	0.37	1.63
		NO <sub>x</sub>	5.56	24.33
		SO <sub>2</sub>	0.03	0.13
		CO	4.12	18.04
33	Cooling Tower	VOC	0.46	2.01
		Hexane (6)	0.16	0.70
43	RH Loading	VOC	13.63	0.19
44	B Flare (Routine Emissions)	VOC	42.41	21.98
		Hexane (6)	9.20	8.02
		NO <sub>x</sub>	3.18	1.86
		SO <sub>2</sub>	0.01	0.01
		CO	22.88	13.08
	A and B Flare (MSS Emissions only)	VOC	2151.62	2.02
		Hexane (6)	974.10	1.38
		NO <sub>x</sub>	2.19	0.01
		SO <sub>2</sub>	0.01	0.01
		CO	15.78	0.01
46A	Tank D-104 (5)	VOC	11.30	0.01
46B	Tank D-105 (5)	VOC	13.94	0.17
49	B-line Fugitives (4)	VOC	4.70	20.57
		Hexane (6)	1.46	6.39
58	PF-311B Baghouse	PM/PM <sub>10</sub>	0.01	0.05

PM <sub>2.5</sub>	0.01	0.01
VOC	(7)	(7)

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Point No. (1)	Name (2)	Name (3)	lb/hr	
TPY **				
59	PF-435B Baghouse	PM/PM <sub>10</sub>	0.03	0.14
		PM <sub>2.5</sub>	0.01	0.03
		VOC	(7)	(7)
60	B-line Finishing Building Fugitives (4)	PM/PM <sub>10</sub>	0.10	0.42
		PM <sub>2.5</sub>	0.02	0.08
		VOC	(7)	(7)
61	Powder Transport System 2, 3, and 4 Vent	PM/PM <sub>10</sub>	0.01	0.03
		PM <sub>2.5</sub>	0.01	0.01
		VOC	(7)	(7)
58/59/60/61	Finishing and Hopper Car Loading Residual VOC (7)	VOC	4.06	13.55
62	Aluminum Alkyl Metering Run	VOC	13.94	0.18
63	Alkyl Deactivator Storage Drum	VOC	27.87	0.05
64	Tank Truck Loading and Unloading Fugitives (4)	VOC	1.65	0.05
65	Hopper Car Unloading Vacuum System	PM/PM <sub>10</sub>	0.03	0.14
		PM <sub>2.5</sub>	0.01	0.03
110	C-line Pellet Silo	PM <sub>10</sub>	0.017	0.19
		VOC	3.97	10.08
111	Pellet Blending Silo	PM <sub>10</sub>	1.01	4.41
112	Elutriator Bag Filter	PM <sub>10</sub>	1.08	2.19

114	Extrusion Vents	PM <sub>10</sub>	0.062	0.27
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Emission Rates *	Source	Air Contaminant	<u>Emission</u>	
Point No. (1)	Name (2)	Name (3)	lb/hr	
TPY **				
120	Boiler C	VOC	0.67	2.93
		PM <sub>10</sub>	0.92	4.05
		NO <sub>x</sub>	4.46	10.86
		SO <sub>2</sub>	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 <sub>x</sub>	21.14	3.04
		SO <sub>2</sub>	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
150	C-line 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 19.31		MSS Vessel Degassing Propylene		
			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

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- (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<sub>10</sub> and PM<sub>2.5</sub>  
PM<sub>10</sub> - 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.  
PM<sub>2.5</sub> - particulate matter equal to or less than 2.5 microns in diameter.  
NO<sub>x</sub> - total oxides of nitrogen  
SO<sub>2</sub> - 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.
  - (7) The compliance caps for EPNs 58, 59, 60, and 61 are limited to no more than 4.06 pounds per hour (lb/hr) and 13.55 tons per year (TPY) of VOC emissions.
- \* Emission rates are based on and the facilities are limited by the following maximum operating schedule:  
8,760 hours/year
- \*\* Compliance with annual emission limits is based on a rolling 12-month period.

4, 2011

Dated: August