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, sources, and related activities. 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	
			lbs/hour	TPY (4)
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	0.70
43	RH Loading	VOC	13.63	0.19
44	B Flare (Normal Operations)	VOC	42.41	21.98
		Hexane (6)	9.20	8.02
		NO_x	3.18	1.86
		SO_2	0.01	0.01
		CO	22.88	13.08
	A and B Flare [Maintenance, Startup, and Shutdown (MSS) Activities]	VOC	2151.62	2.02
		Hexane (6)	974.10	1.38
		NO_x	2.19	0.01
		SO_2	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

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49	B-line Fugitives (8)	VOC	4.70	20.57
		Hexane (6)	1.46	6.39
58	PF-311B Baghouse	PM/PM_{10}	0.01	0.05
		$PM_{2.5}$	0.01	0.01
		VOC	(7)	(7)
59	PF-435B Baghouse	PM/PM_{10}	0.03	0.14
		$PM_{2.5}$	0.01	0.03
		VOC	(7)	(7)
60	B-line Finishing Building Fugitives (8)	PM/PM_{10}	0.10	0.42
		$PM_{2.5}$	0.02	0.08
		VOC	(7)	(7)
61	Powder Transport System 2, 3, and 4 Vent	PM/PM_{10}	0.01	0.03
		$PM_{2.5}$	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 (8)	VOC	1.65	0.05
65	Hopper Car Unloading Vacuum System	PM/PM_{10}	0.03	0.14
		$PM_{2.5}$	0.01	0.03
110	C-line 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

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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 (Normal Operations)	VOC (6)	130.00	20.00
		NO_x	18.43	2.74
		SO_2	0.01	0.01
		CO	94.95	13.70
140	C Flare (MSS Emissions Only)	VOC (6)	176.25	2.70
		NO_x	17.50	0.30
		SO_2	0.01	0.01
		CO	123.75	1.78
		Propylene	176.25	2.70
		Hexane	0.01	0.01
150	C-line Fugitives (8)	VOC	1.78	7.77
170	Wastewater Fugitives	VOC	0.11	0.47
Maint_MSS	MSS Activities	Propylene	0.08	0.04
		Hexane	1.99	0.02
Vessel_MSS	MSS Vessel Degasing	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

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		Hexane	27.49	0.16

(1) Emission point identification - either specific equipment designation or emission point number from plot plan.
(2) Specific point source name. 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
NO_x - total oxides of nitrogen
SO_2 - sulfur dioxide
PM - total particulate matter, suspended in the atmosphere, including PM_{10} and $PM_{2.5}$, as represented
PM_{10} - total particulate matter equal to or less than 10 microns in diameter, including $PM_{2.5}$, as represented
$PM_{2.5}$ - particulate matter equal to or less than 2.5 microns in diameter
CO - carbon monoxide
(4) Compliance with annual emission limits (tons per year) is based on a 12-month rolling period.
(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 61are limited to no more than 4.06 pounds per hour (lb/hr) and 13.55 tons per year (TPY) of VOC emissions.
(8) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.

Date: July 22, 2013