

Emission Sources - Maximum Allowable Emission Rates

Permit Number 20153

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)
FI-200-6300	Maleic Incinerator Stack (Normal Operations)	VOC	18.26	80.00
		CO	22.00	95.00
		NO _x	9.27	30.90
		SO ₂	0.90	3.90
		PM	1.49	6.53
		PM _{2.5}	1.49	6.53
		PM ₁₀	1.49	6.53
FF89000700	Butane Tank Flare (Normal Operations)	VOC	11.11	2.74
		CO	6.09	1.88
		NO _x	0.71	0.22
		SO ₂	<0.01	<0.01
FF89000700-FUG	Flare Fugitives (5)	Butane	0.24	1.07
TNK-FUG	Butane Truck Unloading Fugitives (5)	Butane	0.01	0.06
FUGITIVES	Fugitives (5)	VOC	1.89	8.30
FL20051500	Maleic Loading	VOC	<0.01	<0.01

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PLANNED MAINTENANCE, STARTUP, AND SHUTDOWN (MSS) EMISSIONS				
MAN-MSSCNT/ MAN-CONT	Maleic Incinerator Stack (MSS Activities - Controlled Equipment Clearing)	Acetic Acid	0.01	0.01
		Acrylic Acid	0.01	0.01
		Fumaric Acid	0.01	0.01
		Maleic Acid	0.16	0.01
		Phthalic Acid	0.01	0.01
		Amine	0.01	0.01
		Butane	0.01	0.01
		Butanol	0.01	0.01
		Dibutyl Phthalate	0.06	0.01
		Mekor	0.01	0.01
		Tirmethyl Phosphate	0.01	0.01
		VOC (6)	0.32	0.11
		CO	0.01	0.01
		NO _x	0.01	0.01
		PM	0.01	0.01
		PM _{2.5}	0.01	0.01
		PM ₁₀	0.01	0.01
FI-200-6300	Maleic Incinerator Stack (Incinerator Startup and Reactor Shutdown)	CO (7)	50.00	7.20
FF89000700	Butane Tank Flare	VOC	21.39	0.01
	Tank Degassing and Equipment Clearing	CO	5.79	0.01
		NO _x	2.90	0.01
MAN-MSSATM / MAN-ABR	Abrasive Blasting	PM	2.86	0.12
		PM ₁₀	0.34	0.02
		PM _{2.5}	0.03	0.01
MAN-MSSATM / MAN-ASPH	Asphalt Usage	Asphalt	0.08	0.01
		VOC	0.08	0.01
MAN-MSSATM / MAN-FRCTAK	Frac Tanks	Fumaric Acid	0.01	0.01
		Dibutyl Phthalate	0.01	0.01
		VOC (6)	0.02	0.02

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MAN-MSSATM / MAN-INT	Instruments Clearing	Chlorine	0.01	0.01
		VOC	0.01	0.01
MAN-MSSATM / MAN-SOL	Solids Handling	PM	0.07	0.01
		PM ₁₀	0.03	0.01
		PM _{2.5}	0.01	0.01
MAN-MSSATM / MAN-SURCT	Surface Coating	Acetone	1.82	0.09
		HAP	1.82	0.16
		VOC	11.25	1.73
		PM	5.75	0.67
		PM ₁₀	5.75	0.67
		PM _{2.5}	0.58	0.07
MAN-MSSATM / MAN-TKTR	Tank Trucks	Fumaric Acid	0.01	0.01
		Maleic Acid	0.01	0.01
		VOC (6)	0.02	0.02
MAN-MSSATM / MAN-UNCONT	Equipment Clearing	Acetic Acid	0.01	0.01
		Acrylic Acid	0.01	0.01
		Fumaric Acid	0.01	0.01
		Maleic Acid	0.49	0.10
		Phthalic Acid	0.03	0.01
		Amine	0.02	0.01
		Butane	2.04	0.01
		Butanol	0.01	0.01
		Dibutyl Phthalate	2.12	0.49
		Mekor	0.01	0.01
		Trimethyl Phosphate	0.01	0.01
		VOC (6)	4.77	0.67
MAN-MSSATM / MAN-VACTR	Vacuum Trucks	Fumaric Acid	0.01	0.01
		Dibutyl Phthalate	0.01	0.01
		Butane	3.05	0.01
		VOC (6)	3.07	0.03

- (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

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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
HAP	- hazardous air pollutant as listed in § 112(b) of the Federal Clean Air Act or Title 40 Code of Federal Regulations Part 63, Subpart C

- (4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.
- (5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.
- (6) VOC includes all speciations.
- (7) Startup and shutdown emissions only.

Date: December 29, 2023