

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
		NOx	9.27	30.90
		SO ₂	0.90	3.90
FF89000700	Butane Tank Flare (Normal Operations)	Butane	10.94	0.61
		CO	2.96	0.16
		NOx	1.48	0.08
FF89000700-PLT	Butane Tank Flare Pilot Flame	Propane	0.01	0.01
		CO	0.03	0.12
		NOx	0.01	0.06
FF89000700-FUG	Flare Fugitives (5)	Butane	0.17	0.75
TNK-FUG	Butane Truck Unloading Fugitives (5)	Butane	0.01	0.06
FUGITIVES	Fugitives (5)	VOC	1.89	8.30
PLANNED MAINTENANCE, STARTUP, AND SHUTDOWN (MSS) EMISSIONS				
FI-200-6300	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
		Trimethyl Phosphate	0.01	0.01
		VOC (6)	0.32	0.11

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		CO		
		NOx	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
		NOx	2.90	0.01
MAN-MSSCAS	Carbon Adsorption System (CAS) for the Butane Tank	Butane	20.32	0.01
MAN-MSSATM / MAN-ABR	Abrasive Blasting (5)	PM	2.86	0.12
		PM ₁₀	0.34	0.02
		PM _{2.5}	0.03	0.01
MAN-MSSATM / MAN-ASPH	Asphalt Usage (5)	Asphalt	0.08	0.01
		VOC	0.08	0.01
MAN-MSSATM / MAN-FRCTAK	Frac Tanks (5)	Fumaric Acid	0.01	0.01
		Dibutyl Phthalate	0.01	0.01
		VOC (6)	0.02	0.02
MAN-MSSATM / MAN-INT	Instruments Clearing (5)	Chlorine	0.01	0.01
		VOC	0.01	0.01
MAN-MSSATM / MAN-SOL	Solids Handling (5)	PM	0.92	0.02
		PM ₁₀	0.92	0.02
		PM _{2.5}	0.09	0.01
MAN-MSSATM / MAN-SURCT	Surface Coating (5)	Acetone	1.82	0.01
		HAP	1.82	0.06
		VOC	6.62	0.39
		PM	0.92	0.03
MAN-MSSATM / MAN-TKTR	Tank Trucks (5)	PM ₁₀	0.92	0.03
		PM _{2.5}	0.09	0.01
		Fumaric Acid	0.01	0.01
		Maleic Acid	0.01	0.01
MAN-MSSATM / MAN-UNCONT	Equipment Clearing (5)	VOC (6)	0.02	0.02
		Acetic Acid	0.01	0.01
		Acrylic Acid	0.01	0.01
		Fumaric Acid	0.01	0.01
		Maleic Acid	0.49	0.08
		Phthalic Acid	0.03	0.01
		Amine	0.02	0.01
		Butane	2.04	0.01
		Butanol	0.01	0.01

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		Dibutyl Phthalate	2.12	0.22
		Mekor	0.01	0.01
		Trimethyl Phosphate	0.01	0.01
		VOC (6)	4.77	0.39
MAN-MSSATM / MAN-VACTR	Vacuum Trucks (5)	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) Exempt Solvent - Those carbon compounds or mixtures of carbon compounds used as solvents which have been excluded from the definition of volatile organic compound.
- VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
- 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
- CO - carbon monoxide
- NO_x - total oxides of nitrogen
- SO₂ - sulfur dioxide
- PM - total particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5}, as represented
- PM₁₀ - 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
- (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: _____