

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 21083

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 Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY **
1	Vent Stack	VOC	0.73	2.16
		Benzene	0.01	0.01
		Cresols	0.01	0.01
2	Hot Oil Heater No. 1	VOC	0.08	0.35
		NO _x	1.47	6.43
		CO	1.23	5.40
		PM	0.11	0.49
		SO ₂	0.04	0.17
3	Steam Boiler	VOC	0.04	0.17
		NO _x	0.71	3.09
		CO	0.59	2.59
		PM	0.05	0.24
		SO ₂	0.02	0.08
4	Fugitives (4)	VOC	1.37	5.98
5	Hot Oil Heater No. 2	VOC	0.06	0.28
		NO _x	1.18	5.17
		CO	0.99	4.34
		PM	0.09	0.39
		SO ₂	0.03	0.14
DIESELTK	Diesel Tank	VOC	0.12	0.01
DISLGEN	Diesel Generator	VOC	0.19	0.85
		NO _x	5.15	22.57
		CO	0.40	1.75
		PM	0.07	0.32
		SO ₂	0.91	3.99

LOAD	Purifying Unit Loading	VOC	0.60	0.07
PUFUG	Purifying Unit Fugitives	VOC	0.05	0.24
REFLDRUM	Purifying Unit Reflux Drum	VOC	0.40	0.38

Allowables for Process Dry-Out Periods (Limited to 30 Days per Year)

8	Carbon Canisters and Stack	Benzene	0.20	0.10
9	Fugitives (4)	Benzene	0.22	0.10
HOTOILMSS	Hot Oil Heater 1 and 2 MSS (5)	VOC	0.01	0.01
CASMSS	Carbon Canister MSS Stack (5)	VOC	0.05	0.06
VACTRKMSS	Vacuum Truck Loading			
	Tank Degas (5)	VOC	1.41	0.01
MOLEMSS	Mole Sieve Change Out (5)	PM ₁₀	0.01	0.01
MOLEMSS	Mole Sieve Change Out (5)	PM _{2.5}	0.01	0.01
FUGMSS	MSS Fugitives from			
	Maintenance Operations (5)	VOC	1.11	0.10
LUBEMSS	Degreasing/Lubrication			
	Maintenance (5)	VOC	4.68	0.09

- (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) 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 particulate matter greater than 10 microns is emitted.
PM_{2.5} - particulate matter equal to or less than 2.5 microns in diameter.
VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code ' 101.1
NO_x - total oxides of nitrogen
SO₂ - sulfur dioxide
CO - carbon monoxide
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) Planned Maintenance, Startup, and shutdown (MSS) activities described in the permit Special Conditions.

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

Hrs/day 24 Days/week 7 Weeks/year 52

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

Dated December 21, 2010