

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 18209

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**
B322	Tank B-322	VOC	0.94	0.37
B323	Tank B-323	VOC	0.94	0.37
B324	Tank B-324	VOC	0.94	0.37
CWT5	Cooling Tower 5	VOC	0.32	1.38
CWT6	Cooling Tower 6	VOC	0.32	1.38
D309	Tank D-309	VOC	1.60	0.66
D335	Tank D-335	VOC	2.34	0.45
D349	Tank D-349	VOC	0.53	0.16
D356	Tank D-356	VOC	9.61	1.13
D357	Tank D-357	VOC	8.10	1.30
D359	Tank D-359	VOC	0.67	0.56
D360	Tank D-360	VOC	0.64	0.53
D362	Tank D-362	VOC	0.49	0.32
D375	Tank D-375	VOC	0.36	0.51
D376	Tank D-376	VOC	0.36	0.49
D383	Tank D-383	VOC	0.23	0.38
D384	Tank D-384	VOC	12.75	1.53

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			lb/hr	TPY**
D386	Tank D-386	VOC	0.37	0.25
D389	Tank D-389	VOC	6.64	1.02
F318	Tank F-318	VOC	0.27	0.37
F319	Tank F-319	VOC	0.27	0.34
F332	Tank F-332	VOC	0.36	0.25
F333	Tank F-333	VOC	4.09	1.77
FUGHSOL	Process Fugitives (4)	VOC	8.20	35.90
FUGLOFU	Process Fugitives (4)	VOC	4.36	19.08
H360	LOFU Furnace	CO	31.39	24.78
		NO _x	3.01	13.20
		PM	0.51	2.24
		SO ₂	1.94	3.15
		VOC	0.37	1.62
H7600	SHT Process Heater	CO	0.07	0.29
		NO _x	2.17	9.5
		PM	0.18	0.79
		SO ₂	0.48	2.12
		VOC	0.02	0.10
I303	Tank I-303	VOC	1.06	0.51
J320	Tank J-320	VOC	0.66	0.52
S386	Tank S-386	VOC	<0.01	0.01
V1042	VM&P Column Accumulator (before control)	VOC	0.46	2.00
V369	MSS Column Accumulator (before control)	VOC	0.29	1.25

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			lb/hr	TPY**
V417	Column By-Pass Vent	VOC	<0.01	<0.01
V420	Column Accumulator Vent (before control)	VOC	0.29	1.25
WPFLARE	Flare (5)	CO	14.92	12.48
		NO _x	2.07	1.73
		SO ₂	17.26	9.87
		VOC	31.13	8.97
WPFLARE	Flare (6)	CO	9.95	8.32
		NO _x	1.38	1.15
		SO ₂	7.67	4.39
		VOC	20.75	5.98

(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 an area name or fugitive source name.

(3) VOC - volatile organic compounds as defined in 30 Texas Administrative Code Section 101.1

IOC-U - inorganic compounds (unspeciated)

NO_x - total oxides of nitrogen

SO₂ - sulfur dioxide

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.

CO - carbon monoxide

HCl - hydrogen chloride

HF - hydrogen fluoride

HBr - hydrogen bromide

HI - hydrogen iodide

NaOH - sodium hydroxide

(4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable

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Emission *	Source	Air Contaminant	<u>Emission Rates</u>	
<u>Point No. (1)</u>	<u>Name (2)</u>	<u>Name (3)</u>	<u>lb/hr</u>	<u>TPY**</u>

emission rate.

(5) Contribution to flare from LOFU.

(6) Contribution to flare from SHT.

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

____Hrs/day __Days/week __Weeks/year or 8760 Hrs/year

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