

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 5452

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
F-A1	Furnace A-West Stack	NO _x	12.24	53.61
		CO	3.67	16.08
		PM ₁₀	0.33	1.46
		VOC	0.24	1.05
		SO ₂	0.03	0.11
F-A2	Furnace A-Center Stack	NO _x	12.24	53.61
		CO	3.67	16.08
		PM ₁₀	0.33	1.46
		VOC	0.24	1.05
		SO ₂	0.03	0.11
F-A3	Furnace A- East Stack	NO _x	12.24	53.61
		CO	3.67	16.08
		PM ₁₀	0.33	1.46
		VOC	0.24	1.05
		SO ₂	0.03	0.11
F-B	Furnace B Stack	NO _x	41.92	183.62
		CO	12.58	55.09
		PM ₁₀	0.77	3.37
		VOC	0.22	0.95
		SO ₂	0.09	0.41
F-CD	Isom Oil and Feed Heater Stack (EPN F-CD) is a Combined Stack for Heater F-C (97 MMBtu/hr) and Heater F-D (38 MMBtu/hr)	NO _x	8.78	38.43
		CO	7.29	31.93
		PM ₁₀	1.05	4.59
		VOC	0.76	3.32
		SO ₂	0.08	0.36

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FLR-1	Isom Acid Gas Flare Stack	NO _x	0.29	1.26
		CO	0.57	2.51
		VOC	0.07	0.29
		SO ₂	<0.01	<0.01
FLR-2	Isom VOC Flare Stack	NO _x	0.03	0.11
		CO	0.05	0.23
		VOC	0.01	0.05
		SO ₂	<0.01	<0.01
GLY-1	Glycol Unit Regen Stack	VOC	1.92	8.5
B-08	No. 8 Boiler Stack	NO _x	12.30	53.87
		CO	18.64	81.63
		PM ₁₀	1.59	6.96
		VOC	1.15	5.04
		SO ₂	0.12	0.53
PE-1	C2CL4 Storage Building Vent	PCE	0.16	0.69
FUG-FRAC	Frac Plant Fugitives (4)	VOC	34.95	153.10
FUG-IMP	Imports Unit Fugitives (4)	VOC	8.06	35.34
FUG-ISOM	Isom Unit Fugitives (4)	VOC	4.92	21.55
		H ₂	3.86	16.92

(1) Emission point identification - either specific equipment designation or emission point number

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from a plot plan.

(2) Specific point source names. For fugitive sources use area name or fugitive source name.

(3) NO_x - total oxides of nitrogen

CO - carbon monoxide

PM₁₀ - particulate matter (PM) equal to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no PM greater than 10 microns is emitted.

VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1

SO₂ - sulfur dioxide

H₂ - hydrogen

PCE - perchloroethylene

(4) Emissions are an estimate based on component count, factors, and applicable reduction credits for a leak detection and repair program.

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

_____ Hrs/day _____ Days/week _____ Weeks/year or 8,760 Hrs/year

Dated December 2, 2003