

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	CO	3.67	16.08
		NO _x	12.24	53.61
		PM ₁₀	0.33	1.46
		SO ₂	0.03	0.11
		VOC	0.24	1.05
F-A2	Furnace A-Center Stack	CO	3.67	16.08
		NO _x	12.24	53.61
		PM ₁₀	0.33	1.46
		SO ₂	0.03	0.11
		VOC	0.24	1.05
F-A3	Furnace A- East Stack	CO	3.67	16.08
		NO _x	12.24	53.61
		PM ₁₀	0.33	1.46
		SO ₂	0.03	0.11
		VOC	0.24	1.05
F-B	Furnace B Stack	CO	12.58	55.09
		NO _x	41.92	183.62
		PM ₁₀	0.77	3.37
		SO ₂	0.09	0.41
		VOC	0.22	0.95
F-CD	Hydrotreater 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)	CO	7.29	31.93
		NO _x	4.59	20.10
		PM ₁₀	1.05	4.59
		SO ₂	0.08	0.36
		VOC	0.76	3.32
GLY-1	Glycol Unit Regen Stack	VOC	1.92	8.50

AIR CONTAMINANTS DATA

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**
B-08	No. 8 Boiler Stack	CO	18.64	81.63
		NO _x	12.30	53.87
		PM ₁₀	1.59	6.96
		SO ₂	0.12	0.53
		VOC	1.15	5.04
FLR-1	Planned MSS Gas Stabilizer Unit (5)	CO	15.05	
		0.01		
		H ₂ S	0.01	0.01
		NO _x	7.54	0.01
		SO ₂	0.15	0.01
FLR-N	Planned MSS Gas Stabilizer Unit (5)	VOC	20.80	0.03
		CO	15.05	
		0.01		
		H ₂ S	0.01	0.01
		NO _x	7.54	0.01
FLR-S	Planned MSS Gas Stabilizer Unit (5)	SO ₂	0.15	0.01
		VOC	20.80	0.03
		CO	15.05	
		0.01		
		H ₂ S	0.01	0.01
GS-MSS	Planned MSS Gas Stabilizer Unit Atmospheric Emissions	H ₂ S	0.88	0.01
		VOC	50.07	0.05
FUG-FRAC	Frac. Plant Fugitives (4)	VOC	34.95	153.10
FUG-IMP	Imports Unit Fugitives (4)	VOC	8.06	35.34
FUG-HYDRO	Hydrotreater Unit Fugitives (4)	H ₂ S	0.01	0.01
		VOC	1.59	6.95
FUG-C6	Stabilizer Project Process Fugitives (4)	VOC	0.33	1.45

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

- (1) Emission point identification - either specific equipment designation or emission point number (EPN) from a plot plan.
- (2) Specific point source names. For fugitive sources use area name or fugitive source name.
- (3) CO - carbon monoxide
H₂S - hydrogen sulfide
NO_x - total oxides of nitrogen
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.
SO₂ - sulfur dioxide
VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
- (4) Emissions are an estimate based on component count, factors, and applicable reduction credits for a leak detection and repair program.
- (5) Planned maintenance, startup, and shutdown activities and emissions are only authorized from the gasoline stabilizer production unit. These emissions are sent to the designated EPN up to a maximum of 15 hours per rolling 12-month period.

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

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

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

Date August 23, 2010