

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 23523

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		Air Contaminant		<u>Emission Rates *</u>	
	Name (2)	Name (3)	lb/hr	TPY		
7-H-2	Coker Heater			PM ₁₀	0.78	3.42
				VOC	0.20	0.89
				NO _x	10.36	45.38
				CO	6.24	27.32
				SO ₂	5.92	25.89
Tank 93	Crude Oil Storage Tank			VOC	0.90	3.96
COKER-FE	DCU Fugitives (4)			VOC	2.47	10.82
				H ₂ S	<0.01	0.04
				NH ₃	<0.01	<0.01
FU-1	Coke Handling (4) (5)			PM	0.31	0.58
				PM ₁₀	0.15	0.27
CH1	Truck Dump Fugitives			PM	0.06	0.11
				PM ₁₀	0.03	0.05
CH2	Hopper Fugitives (Batch and Continuous Drop			PM	0.16	0.24
				PM ₁₀	0.07	0.10
CH3	Stockpile Fugitives and Front-End Loader Off-Load			PM	0.84	3.35
				PM ₁₀	0.40	1.63
88-07	DCU Cooling Tower Water (4)			VOC	0.10	0.11
WP-FLARE1	West Plant Flare (6)			EMERGENCY USE ONLY		

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- (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.

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- (3) PM - particulate matter
PM₁₀ - particulate matter less than 10 microns in diameter
VOC - volatile organic compounds as defined in General Rule 101.1
NO_x - total oxides of nitrogen
CO - carbon monoxide
SO₂ - sulfur dioxide
H₂S - hydrogen sulfide
NH₃ - anhydrous ammonia
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) PM emission limits include PM₁₀; therefore, PM and PM₁₀ are not additive.
- (6) The West Plant Flare (EPN WP-FLARE1) is an emergency flare for the Delayed Coker Unit only.

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

Hrs/day___Days/week___Weeks/year___or Hrs/year 8,760

Dated _____