

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 21849

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)	Name (3)	Air Contaminant lb/hr TPY	<u>Emission Rates *</u>	
<u>Heaters - Existing Case</u>					
COK-HE	Coker Unit - East Heater (5)		PM	0.95	4.15
			VOC	0.27	1.16
			NOx	104.28	456.77
			SO2	5.02	10.99
			CO	7.58	33.22
COK-HW	Coker Unit - West Heater (5)		PM	0.95	4.15
			VOC	0.27	1.16
			NOx	104.28	456.77
			SO2	5.02	10.99
			CO	7.58	33.22
<u>Heaters - After Installation of Reduced NOx Burners</u>					
COK-HE	Coker Unit - East Heater (5)		PM	1.09	4.78
			VOC	0.31	1.34
			NOx	13.75	60.23
			SO2	5.78	12.65
			CO	8.73	38.24
COK-HW	Coker Unit - West Heater (5)		PM	1.09	4.78
			VOC	0.31	1.34

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			lb/hr	TPY		
				NOx	13.75	60.23
				SO2	5.78	12.65
				CO	8.73	38.24
TK422A	SRF Tank			VOC	1.76	1.18
TK423	Reclaimed Oil Tank			VOC	0.25	0.75
TK425	Reclaimed Oil Tank			VOC	0.25	0.75
TK803	Reclaimed Oil Tank			VOC	1.67	6.95
TK804	Reclaimed Oil Tank			VOC	1.70	7.09
TK834A	SRF Tank			VOC	1.19	1.45
COK-LL	Coke Loading Fugitives(4)			PM	0.044	0.21
FCT-COKE	Cooling Tower (4)			VOC	2.63	11.53
F-3-COKD	Fugitives (4)			VOC	15.36	67.30
FL-3-COK	Coker Flare		**For Emergency Use Only**			

- (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
VOC - volatile organic compounds as defined in General Rule 101.1
NOx - total oxides of nitrogen
SO2 - sulfur dioxide
CO - carbon monoxide

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			lb/hr	TPY

- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) Coker Heaters (EPNs COK-HE and COK-HW) shall comply with the Existing Case emission rates prior to installation of the burners that reduce NOx emissions. After installation of the the burners that reduce NOx emissions and no later than November 30, 1995, the Coker Heaters shall comply with the second set of emission rates - those for Reduced NOx Burners.

* 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 _____