

# EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 8373/PSD-TX-324M-6

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)	<u>Emission Rates*</u>	
			lb/hr	TPY
81-85 and 88-113	Storage Tanks	VOC	43.70	210.00
114	Desalter Heater	VOC	0.20	0.90
		NOX	7.90	34.60
		SO2	0.90	3.90
		PM	0.70	2.90
		CO	1.10	4.80
115	HDS Heater A/B	VOC	0.40	1.70
		NOX	13.11	57.40
		SO2	1.50	6.70
		PM	1.10	4.80
		CO	1.70	7.70
116	HDS Heavy Oil Preheater	VOC	0.80	0.10
		NOX	1.60	1.20
		SO2	0.20	0.80
		PM	0.10	0.60
		CO	0.20	0.90
117	Alky Reboiler	VOC	0.30	1.40
		NOX	11.80	51.70
		SO2	1.40	6.00
		PM	1.00	4.30
		CO	1.60	6.90
118	Hydrogen Reformer Heater	VOC	1.30	1.00
		NOX	72.00	315.40
		SO2	8.40	36.80
		PM	6.00	4.70
		CO	9.60	7.50

119	Sulften Heater	VOC	0.07	0.30
		NOX	2.40	10.40
		SO2	0.30	1.30
		PM	0.20	0.80
		CO	0.30	1.40

## EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

### AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates*</u>	
			lb/hr	TPY
120	Butamer Heater	VOC	0.04	0.09
		NOX	1.51	3.31
		SO2	0.21	0.46
		PM	0.07	0.16
		CO	0.20	0.44
121	Caustic Scrubber Stack (5)	VOC	<0.10	<0.10
		NOX	203.00	889.10
		SO2	385.00	1686.30
		PM	39.90	174.80
		CO	561.60	2459.60
		Sulfates **	40.00	175.20
121	Caustic Scrubber Stack (6)	VOC	<0.10	<0.10
		NOX	203.00	889.10
		SO2	131.68	576.75
		PM	39.90	174.80
		CO	561.60	2459.60
		Sulfates **	40.00	175.20
122	HOC Cooling Tower	VOC	4.60	20.20
123	Butamer Cooling Tower	VOC	1.10	4.60
124	API Separator	VOC	21.60	94.60
125	Truck Rack	VOC	<0.10	<0.10
126	Main Flare	VOC	<0.10	<0.10
127	MTBE Flare	VOC	0.02	0.09
		SO2	0.58	2.52
		NOX	0.03	0.14
		CO	0.27	1.17
128	SRU Bypass Flare	EMERGENCY USE ONLY		
129	Methanol Tank	VOC	0.11	0.50

130	Fugitives (4)	VOC	108.00	471.00
130A	Butamer Fugitives (4)	VOC	1.95	8.55
135	Main Flare/Acid Gas	EMERGENCY USE ONLY		

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

- (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) VOC - volatile organic compounds as defined in General Rule 101.1  
NOx - total oxides of nitrogen  
SO2 - sulfur dioxide  
PM - particulate matter including PM10  
CO - carbon monoxide
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) Emissions prior to start-up of the Belco Scrubber.
- (6) Emissions after start-up of the Belco Scrubber.

\* 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

\*\* With no more than 5.0 pounds per hour or 21.9 tons per year of H2SO4.

Revised \_\_\_\_\_