

# EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 27935

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
1)V-R1	Reactor No. 1	VOC	0.65	0.61
2)V-R2	Reactor No. 2	VOC	0.65	0.92
3)FSCRUBBR	Reactor No. 3 Scrubber	VOC	2.20	1.12
4)S-096641	Tail Gas Boiler (4)	CO	1.0	4.40
		VOC	<0.01	0.05
5)S-061920	Cleaver Brooks 700 Boiler	CO		4.40
		NO <sub>x</sub>	3.50	
		PM	0.29	
		SO <sub>2</sub>	0.03	
		VOC	0.47	
6)S-B1997	Cleaver Brooks 500 Boiler (5)	CO		3.14
		NO <sub>x</sub>	2.50	
		PM	0.21	
		SO <sub>2</sub>	0.03	
		VOC	0.34	
	Cleaver Brooks 700 and 500	CO		
	16.60			
	Boilers (6)	NO <sub>x</sub>		13.00
		PM		1.10
		SO <sub>2</sub>		0.11
		VOC		1.80

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission *	Source	Air Contaminant	<u>Emission Rates</u>	
<u>Point No. (1)</u>	<u>Name (2)</u>	<u>Name (3)</u>	<u>lb/hr</u>	<u>TPY</u>
7)PHENSTG1	Phenol Storage Tank No. 1 0.24		VOC	1.10
8)PHENSTG2	Phenol Storage Tank No. 2 0.24		VOC	1.10

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission * Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lb/hr	TPY
9)METHSTG	Methanol Storage Tank	VOC	0.23	1.02
11)FORM-RLF	Formaldehyde Plant Relief Valve	CO	25.00	0.81
		VOC	95.00	3.09
14)UREA-BH1	Urea Silo Baghouse No. 1	PM	0.01	0.02
15)UREA-BH2	Urea Silo Baghouse No. 2	PM	0.01	0.02
21)RESINSTG	Resin Storage Tank Farm	VOC	0.03	0.02
FORMFUG	Formaldehyde Production Fugitives (7)	VOC	0.28	1.20
RESFUG	Resin Production Fugitives (7)	VOC	<0.01	0.03
FORMTRK	Truck Loading	VOC	0.13	<0.01
FORMRAIL	Railcar Loading	VOC	0.13	<0.01

- (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) CO - carbon monoxide  
 NO<sub>x</sub> - total oxides of nitrogen  
 PM - suspended in the atmosphere, including PM<sub>10</sub>.  
 PM<sub>10</sub> - particulate matter equals to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no particulate matter greater than 10 microns is emitted.  
 SO<sub>2</sub> - sulfur dioxide  
 VOC - volatile organic compounds as defined in General Rule 101.1
- (4) The Boiler S-053199 may be used as Tail Gas Boiler until it is

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

replaced by the Boiler S-096641.

- (5) The Boiler S-096641 may be used in place of the Cleaver Brooks 500 Boiler until it is replaced by the Boiler S-B1997.
- (6) The combined annual emissions of the Cleaver Brooks 700 and 500 Boilers are limited to the totals shown.
- (7) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.

\* 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 \_\_\_\_\_