

## EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 20698 and PSD-TX-797M1

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
42	Solar T-14000 Turbine (115.4 MMBtu/hour heat input) (55 MMBtu/hour duct burner heat input)	CO	4.50	18.60
		NH <sub>3</sub>	1.88	8.23
		NO <sub>x</sub>	4.80	19.70
		PM <sub>10</sub>	1.16	5.08
		SO <sub>2</sub>	0.28	1.23
		VOC	0.82	3.60
43	Continuous Catalyst Regeneration	CO	0.08	0.35
		NO <sub>x</sub>	0.04	0.18
		PM <sub>10</sub>	0.03	0.13
		SO <sub>2</sub>	0.12	0.52
		VOC	0.03	0.15
		Cl <sub>2</sub>	<0.01	0.02
		HCl	0.17	0.75
44	Reactor Heater (254.8 MMBtu/hour heat input)	CO	9.94	43.52
		NO <sub>x</sub>	18.09	79.24
		PM <sub>10</sub>	1.27	5.55
		SO <sub>2</sub>	119.75	16.53
		VOC	0.13	0.56
45	Flare	CO	4.02	2.86
		NO <sub>x</sub>	2.01	0.33
		VOC	6.43	0.25
		SO <sub>2</sub>	<0.01	0.01
46	Cooling Tower (4)	VOC	0.29	1.29

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47	Lube Oil Storage Tank	VOC	<0.01	<0.01
<u>Emission Rates *</u>	<u>Source</u>	<u>Air Contaminant</u>	<u>Emission</u>	
<u>Point No. (1)</u>	<u>Name (2)</u>	<u>Name (3)</u>	<u>lb/hr</u>	
<u>TPY</u>				
48	CPI Separator (4)	VOC	<0.01	0.02
49	Slop Oil Storage Tank	VOC	<0.01	<0.01
50	Wastewater Bio Unit (4)	VOC	<0.01	0.03
51	Lube Oil Storage Tank	VOC	<0.01	<0.01
F1	Process Fugitives (4)	VOC	4.02	17.64
F2	Process Fugitives (4)	Cl <sub>2</sub>	<0.01	0.02
F3	Process Fugitives (4)	MTBE	0.35	1.53
F4	Process Fugitives (4)	MEOH	0.32	1.39

- (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) NH<sub>3</sub> - ammonia  
 Cl<sub>2</sub> - chlorine  
 CO - carbon monoxide  
 HCl - hydrogen chloride  
 MEOH - methanol  
 MTBE - methyl-tert-butyl ether  
 NO<sub>x</sub> - total oxides of nitrogen  
 PM<sub>10</sub> - particulate matter less than 10 microns  
 SO<sub>2</sub> - sulfur dioxide  
 VOC - volatile organic compounds as defined in General Rule 101.1
- (4) 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

Revised\_\_\_\_\_