

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 583A

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
<u>Reaction Lines 1-11</u>				
37	Cooling Tower (4)	VOC	1.008	4.42
39	Activator Burner	VOC	0.018	0.036
		NO _x	0.899	1.80
		SO ₂	0.004	0.008
		PM	0.006	0.01
		CO	0.225	0.45
50	Fugitives (4)	VOC	16.34	63.33
78	Dry-Flo Loading Bin	PM	0.255	0.074
79	Catalyst Fines Filter	PM	0.004	0.005
80	Catalyst Fines Filter	PM	0.004	0.005
81	Catalyst Mud Tank Filter	PM	0.0024	0.001
82	Catalyst Mud Tank Filter	PM	0.0024	0.001
83	Dry-Flo Vent Separator	PM	0.01	0.01
84	Dry-Flo Vent Separator	PM	0.01	0.01
89-94, 104-107, 112-113	Storage Bin Filters	VOC	9.1	9.0
		PM	1.31	3.06

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			lb/hr	TPY
116, 117	Receiver Dust Collector	VOC	0.35	0.88
		PM	0.4	1.503
118	Baghouse	PM	0.2	1.503
<u>Reaction Lines 12 and 13</u>				
INCIN-1	Process Incinerator	VOC	0.64	0.83
		NO _x	0.59	1.71
		CO	0.90	3.64
		PM	<0.01	<0.01
INCIN-2	Storage Tank Incinerator	VOC	0.04	0.02
		NO _x	<0.01	<0.01
		CO	<0.01	<0.01
1	Flare	NO _x	0.35	1.39
		CO	1.75	7.10
		VOC	<0.01	<0.01
25	Tank 25	VOC	0.01	0.01
4	Cooling Tower	VOC	0.20	0.88
		PM	0.18	0.80
13CT	Cooling Tower	VOC	0.08	0.11
		PM	0.90	1.30
44	Tank 44	VOC	<0.01	<0.01
7	No. 2 Hot Oil Heater	NO _x	1.12	4.9
		CO	0.28	1.23
		PM	<0.01	0.04
		VOC	0.02	0.10

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates*</u>	
			lb/hr	TPY
06	Purification Fugitives (4)	VOC	3.22	14.11
03	Reactor Fugitives (4)	VOC	1.64	7.19
F2	Compression Fugitives(4)	VOC	1.16	5.06
72	Shaft Oven Vent	NO _x	0.5	<0.01
		CO	0.01	0.01
		VOC	<0.01	<0.01
8	No. 1 Hot Oil Heater	NO _x	1.12	4.9
		CO	0.28	1.23
		PM	<0.01	0.04
		VOC	0.02	0.10

- (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
 NO_x - total oxides of nitrogen
 SO₂ - sulfur dioxide
 PM - particulate matter
 CO - carbon monoxide
- (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

Dated_____