EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

3344

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
2A-1	Amine Reboiler A, Stack 1	CO	0.34	1.48
		NOx	1.36	5.94
		PM10	0.05	0.21
		SO2	<0.01	0.03
		VOC	0.03	0.12
2A-2	Amine Reboiler A, Stack 2	CO	0.34	1.48
		NOx	1.36	5.94
		PM10	0.05	0.21
		SO2	<0.01	0.03
		VOC	0.03	0.12
2B-1	Amine Reboiler B, Stack 1	CO	0.34	1.48
		NOx	1.36	5.94
		PM10	0.05	0.21
		SO2	<0.01	0.03
		VOC	0.03	0.12
2B-2	Amine Reboiler B, Stack 2	CO	0.34	1.48
		NOx	1.36	5.94
		PM10	0.05	0.21
		SO2	<0.01	0.03
		VOC	0.03	0.12
2C-1	Amine Reboiler C, Stack 1	CO	0.34	1.48
		NOx	1.36	5.94
		PM10	0.05	0.21
		SO2	<0.01	0.03
		VOC	0.03	0.12
2C-2	Amine Reboiler C, Stack 2	CO	0.34	1.48
		NOx	1.36	5.94
		PM10	0.05	0.21
		SO2	<0.01	0.03

		VOC	0.03	0.12
3A	Amine Reclaimer, Stack A (5)	CO	0.11	0.02
		NOx	0.44	0.07
		PM10	0.02	< 0.01
		SO2	<0.01	< 0.01
		VOC	<0.01	< 0.01

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates* lb/hr	TPY
3B	Amine Reclaimer, Stack B (5)	CO	0.11	0.02
		NOx	0.44	0.07
		PM10	0.02	<0.01
		SO2	<0.01	<0.01
		VOC	<0.01	<0.01
3C	Amine Reclaimer, Stack C (5)	CO	0.11	0.02
		NOx	0.44	0.07
		PM10	0.02	<0.01
		SO2	<0.01	<0.01
		VOC	<0.01	<0.01
3D	Amine Reclaimer, Stack D (5)	CO	0.11	0.02
		NOx	0.44	0.07
		PM10	0.02	<0.01
		SO2	<0.01	<0.01
		VOC	<0.01	<0.01
ENG-4	Emergency Generator (6)	CO	1.62	0.07
		NOx	29.18	1.28
		SO2	<0.01	<0.01
		VOC	1.62	0.07
7	White Superior 16G Compressor Stack	CO	1.19	5.21
		NOx	4.97	21.76
		SO2	<0.01	0.03
		VOC	0.13	0.59
8	White Superior 12G Compressor Stack	CO	0.90	3.92
		NOx	3.73	16.33
		SO2	<0.01	0.03
		VOC	0.10	0.44

I-1	Acid Gas Incinerator Stack	CO	108.47	16.40
		H2S	5.40	3.15
		NOx	2.69	11.74
		PM10	0.096	0.42
		SO2	339.41	186.61
		VOC	0.054	0.24
9	Acid Gas Dehydration Unit Glycol Regenerator	CO	0.01	0.05
		NOx	0.05	0.22
		PM10	<0.01	0.01
		SO2	<0.01	<0.01
		VOC	<0.01	0.03

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates* lb/hr	TPY
10	Emergency Bypass Stack (7)	H2S	114.00	3.57
		VOC	170.00	5.33
11	MDEA Solution Storage Tank	MDEA	0.18	<0.01
12	MDEA Solution Storage Tank	MDEA	0.26	<0.01
13	MDEA Solution Storage Tank	MDEA	<0.01	<0.01
14	Facility Sump Stack	VOC	0.55	2.41
15	Amine Reclaimer Sludge Sump Vent	VOC	<0.01	<0.01
16	MDEA Solution Surge Tank	MDEA	<0.01	<0.01
17	Compressor Blowdown Stack	H2S	9.53 0.87	
		VOC	6.30	0.58
PF-1	Fugitives (4)	H2S	<0.01	0.05
		VOC	1.21	5.29
		MDEA	0.03	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

H2S - hydrogen sulfide
NOx - total oxides of nitrogen
SO2 - sulfur dioxide
PM10 - particulate matter less than 10 microns
CO - carbon monoxide
MDEA - methyl diethanolamine

(4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
(5) The amine reclaimer shall be used one day per month.
(6) Generator use is limited to 4 days per calendar year.
(7) Bypass stack operation is limited to 7 days per calendar year.

* 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_____