

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 21655

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		Air Contaminant		<u>Emission Rates *</u>	
	Name (2)	Name (3)	lb/hr	TPY		
SRU1-INCIN	SRU No. 1 Incinerator		SO2		30.72	134.55
			H2S		0.011	0.049
			COS		0.003	0.013
			CS2		0.002	0.007
			S		0.002	0.008
			PM/PM10		0.155	0.679
			NMVOC		0.239	1.05
			NOx		2.10	9.20
			CO		1.00	4.38
SRU2-INCIN	SRU No. 2 Incinerator		SO2		30.72	134.55
			H2S		0.011	0.049
			COS		0.003	0.013
			CS2		0.002	0.007
			S		0.002	0.008
			PM/PM10		0.155	0.679
			NMVOC		0.239	1.05
			NOx		2.10	9.20
			CO		1.00	4.38
SRU1-FLARE	SRU1 Emergency Flare		SO2		0.011	0.046
			H2S		0.0001	0.0005
			NOx		0.027	0.116
			CO		0.227	0.993
			NMVOC		0.044	0.193
SRU2-FLARE	SRU2 Emergency Flare		SO2		0.011	0.046
			H2S		0.0001	0.0005
			NOx		0.027	0.116
			CO		0.227	0.993
			NMVOC		0.044	0.193
ATU1-FE	ATU No. 1 Fugitives (4)		NMVOC		0.182	0.796

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY
		H2S	0.074	0.324
		CO	0.0005	0.002
		COS	0.0001	0.0005
		NH3	0.0001	0.0005
		DEA	0.041	0.180
ATU2-FE	ATU No. 2 Fugitives (4)	NMVOC	0.182	0.796
		H2S	0.074	0.324
		CO	0.0005	0.002
		COS	0.0001	0.0005
		NH3	0.0001	0.0005
		DEA	0.041	0.180
SRU1-FE	SRU No. 1 Fugitives (4)	NMVOC	0.004	0.015
		H2S	0.053	0.232
		SO2	0.002	0.010
		CO	0.0005	0.002
		COS	0.0002	0.0008
		CS2	0.0001	0.0005
		NH3	0.017	0.076
		MDEA	0.03	0.131
SRU2-FE	SRU No. 2 Fugitives (4)	NMVOC	0.004	0.015
		H2S	0.053	0.232
		SO2	0.002	0.010
		CO	0.0005	0.002
		COS	0.0002	0.0008
		CS2	0.0001	0.0005
		NH3	0.017	0.076
		MDEA	0.03	0.131
SWS1-FE	SWS No. 1 Fugitives (4)	NMVOC	0.002	0.009
		C6H6	0.0001	0.0004
		H2S	0.003	0.015
		NH3	0.0005	0.0021
SWS1-T3	SWS No. 1 - Tank 3	NMVOC	0.164	0.569
		C6H6	0.0003	0.0008

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>		
			lb/hr	TPY	
			H2S	0.006	0.011
			NH3	0.0001	0.0002

- (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.

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- (3) PM - particulate matter
PM10 - particulate matter less than 10 microns
VOC - volatile organic compounds as defined in General Rule 101.1
NMVOC - non-methane VOC
NOx - total oxides of nitrogen
SO2 - sulfur dioxide
CO - carbon monoxide
H2S - hydrogen sulfide
COS - carbonyl sulfide
CS2 - carbon disulfide
S - sulfur
NH3 - anhydrous ammonia
DEA - diethanolamine
MDEA - methyldiethanolamine
C6H6 - benzene
- (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