

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 Name (2)	Air Contaminant Name (3)	Emission Rates	
			lb/hr	TPY
SRU1-INCIN	SRU No. 1 Incinerator	SO ₂	30.72	134.55
		RSC	0.43	1.88
		PM/PM ₁₀	0.16	0.68
		NMVOC	0.24	1.05
		NO _x	2.20	9.63
		CO	1.00	4.38
SRU2-INCIN	SRU No. 2 Incinerator	SO ₂	30.72	134.55
		RSC	0.43	1.88
		PM/PM ₁₀	0.16	0.68
		NMVOC	0.24	1.05
		NO _x	2.20	9.63
		CO	1.00	4.38
SRU1-FLARE	SRU1 Emergency Flare	SO ₂	0.011	0.046
		RSC	0.0001	0.0005
		NO _x	0.027	0.116
		CO	0.227	0.993
		NMVOC	0.044	0.193
SRU2-FLARE	SRU2 Emergency Flare	SO ₂	0.011	0.046
		RSC	0.0001	0.0005
		NO _x	0.027	0.116
		CO	0.227	0.993
		NMVOC	0.044	0.193
SWS-FLARE	SWS Emergency Flare	SO ₂	0.0001	0.0004
		RSC	<0.0001	0.0002

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
		NO _x	0.017	0.075
		CO	0.034	0.149
ATU1-FE	ATU No. 1 Fugitives (4)	NMVOC	0.182	0.796
		RSC	0.074	0.325
		CO	0.0005	0.002
		NH ₃	0.0001	0.0005
		DEA	0.041	0.180
ATU2-FE	ATU No. 2 Fugitives (4)	NMVOC	0.182	0.796
		RSC	0.074	0.325
		CO	0.0005	0.002
		NH ₃	0.0001	0.0005
		DEA	0.041	0.180
SRU1-FE	SRU No. 1 Fugitives (4)	NMVOC	0.004	0.015
		RSC	0.047	0.207
		SO ₂	0.002	0.010
		CO	0.0005	0.002
		NH ₃	0.017	0.076
		MDEA	0.03	0.131
SRU2-FE	SRU No. 2 Fugitives (4)	NMVOC	0.004	0.015
		RSC	0.053	0.233
		SO ₂	0.002	0.010
		CO	0.0005	0.002
		NH ₃	0.017	0.076
		MDEA	0.03	0.131
SWS1-FE	SWS No. 1 Fugitives (4)	NMVOC	0.002	0.009
		C ₆ H ₆	0.0001	0.0004
		RSC	0.003	0.015
		NH ₃	0.0005	0.0021

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
SWS1-T3	SWS No. 1 - Tank 3	NMVOC	0.164	0.569
		C ₆ H ₆	0.0003	0.0008
		RSC	0.006	0.011
		NH ₃	0.0001	0.0002
** SRU1-INCIN	SRU No. 1 Incinerator	SO ₂	1310.40	1415.23
		RSC	15.38	16.60
		PM/PM ₁₀	0.13	0.13
		NMVOC	0.03	0.03
		NO _x	1.26	1.36
		CO	0.31	0.34
** SRU1-PIT	SRU No. 1 Sulfur Pit(s)	H ₂ S	3.08	3.32

(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) 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
 NO_x - total oxides of nitrogen
 SO₂ - sulfur dioxide
 CO - carbon monoxide
 H₂S - hydrogen sulfide
 NH₃ - anhydrous ammonia
 DEA - diethanolamine
 MDEA - methyldiethanolamine
 C₆H₆ - benzene

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission *	Source	Air Contaminant	Emission Rates	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY

RSC - reduced sulfur compounds (includes H₂S, COS, CS₂, and S)

COS - carbonyl sulfide

CS₂ - carbon disulfide

S - sulfur

(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:

** SRU1 90-day expanded capacity. These value become void 90 days after permit amendment approval.

Hrs/day_____Days/week_____Weeks/year_____or Hrs/year 8,760

Dated_____