

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)	<u>Emission Rates *</u>	
			lb/hr	TPY
SRU1-INCIN	SRU No. 1 Incinerator	SO ₂	30.72	134.55
		H ₂ S	0.011	0.049
		COS	0.003	0.013
		CS ₂	0.002	0.007
		S	0.002	0.008
		PM/PM ₁₀	0.155	0.679
		NMVOC	0.239	1.05
		NO _x	2.10	9.20
		CO	1.00	4.38
SRU2-INCIN	SRU No. 2 Incinerator	SO ₂	30.72	134.55
		H ₂ S	0.011	0.049
		COS	0.003	0.013
		CS ₂	0.002	0.007
		S	0.002	0.008
		PM/PM ₁₀	0.155	0.679
		NMVOC	0.239	1.05
		NO _x	2.10	9.20
		CO	1.00	4.38
SRU1-FLARE	SRU1 Emergency Flare	SO ₂	0.011	0.046
		H ₂ S	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
		H ₂ S	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

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AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			lb/hr	TPY
		H ₂ S	<0.0001	0.0002
		NO _x	0.017	0.075
		CO	0.034	0.149
ATU1-FE	ATU No. 1 Fugitives (4)	NMVOC	0.182	0.796
		H ₂ S	0.074	0.324
		CO	0.0005	0.002
		COS	0.0001	0.0005
		NH ₃	0.0001	0.0005
		DEA	0.041	0.180
ATU2-FE	ATU No. 2 Fugitives (4)	NMVOC	0.182	0.796
		H ₂ S	0.074	0.324
		CO	0.0005	0.002
		COS	0.0001	0.0005
		NH ₃	0.0001	0.0005
		DEA	0.041	0.180
SRU1-FE	SRU No. 1 Fugitives (4)	NMVOC	0.004	0.015
		H ₂ S	0.047	0.206
		SO ₂	0.002	0.010
		CO	0.0005	0.002
		COS	0.0002	0.0008
		CS ₂	0.0001	0.0005
		NH ₃	0.017	0.076
		MDEA	0.03	0.131
SRU2-FE	SRU No. 2 Fugitives (4)	NMVOC	0.004	0.015
		H ₂ S	0.053	0.232
		SO ₂	0.002	0.010
		CO	0.0005	0.002
		COS	0.0002	0.0008
		CS ₂	0.0001	0.0005
		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
		H ₂ S	0.003	0.015
		NH ₃	0.0005	0.0021
SWS1-T3	SWS No. 1 - Tank 3	NMVOC	0.164	0.569
		C ₆ H ₆	0.0003	0.0008
		H ₂ S	0.006	0.011
		NH ₃	0.0001	0.0002

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- (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
 - 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

Dated_____