

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 2152

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		
TGU-ICN	Tail Gas Thermal Oxidizer			NOx	3.84	11.10
				CO	22.38	45.28
				VOC	0.13	0.39
				PM10	0.66	1.90
				SO2	90.51	261.66
				H2S	0.05	0.14
TGU-ICN2	Tail Gas Thermal Oxidizer 2			NOx	3.84	11.10
				CO	22.38	45.28
				VOC	0.13	0.39
				PM10	0.66	1.90
				SO2	90.51	261.66
				H2S	0.05	0.14
LL19DOCKD	Barge Loading			H2S	7.44	3.26
LL11TT	Tank Truck Loading			H2S	3.19	2.50
TKT1	DEA Tank			VOC	<0.01	<0.01
TK817	DEA Tank			VOC	<0.01	<0.01
TK872	MDEA Tank			VOC	0.91	0.97
TK868	Sour Water Tank			H2S	0.06	0.17
				NH3	0.11	0.31
				VOC	1.88	5.19
TK921	Sour Water Tank			H2S	0.05	0.13
				NH3	0.09	0.23
				VOC	1.45	3.84

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			lb/hr	TPY
TK810	Sour Water Tank		(a)	
TK870	Molten Sulfur Storage Tank		H2S	<0.001
				<0.001

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>			
			lb/hr	TPY		
TK871	Molten Sulfur Storage Tank			H2S	<0.001	<0.001
TK2163	Anyhydrous Ammonia Storage Tank			NH3	<0.001	<0.001
VES202	Sulfuric Acid Storage			H2SO4	<0.001	<0.001
VES203	Sulfuric Acid Storage			H2SO4	<0.001	<0.001
SRU-FE	Sulfur Plant Fugitives (4)			VOC	0.12	0.52
				SO2	0.01	0.04
				H2S	0.51	2.22
				CO	<0.01	<0.01
				COS	<0.01	<0.01
				CS	<0.01	<0.01
				NH3	0.02	0.11
SWS-FE	Sour Water System Fugitives (4)			VOC	0.02	0.08
				H2S	<0.01	<0.01
				NH3	<0.01	<0.01
1415-FE	Amine Treating Units No. 14 and 15 Fugitives (4)			VOC	0.04	0.18
				H2S	0.23	0.99
AMINE-FE	New Amine Treating Unit Fugitives (4)			VOC	0.02	0.09
				H2S	0.11	0.49
50TN-FE	50 Ton Amine Treating Unit Fugitives (4)			H2S	0.15	0.66
100TN-FE	100 Ton Amine Treating Unit Fugitives (4)			VOC	0.04	0.17
				H2S	<0.01	<0.01
LCT-SULF	Cooling Tower 1			VOC	0.28	1.23
CT-SRU	Cooling Tower 2			VOC	0.21	0.92

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			lb/hr	TPY
FL44SRUNO		SRU North Emergency Flare		(a)
FL44SRUSO		SRU South Emergency Flare		(a)

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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)
 - PM10 - particulate matter less than 10 microns
 - VOC - volatile organic compounds as defined in General Rule 101.1
 - NOx - total oxides of nitrogen
 - SO2 - sulfur dioxide
 - CO - carbon monoxide
 - NH3 - anhydrous fluoride
 - H2SO4 - sulfuric acid
 - H2S - hydrogen sulfide
 - (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
 - (a) Emergency Use Only
- * 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 _____