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 *	Source	Air Contaminant	<u>Emission</u>	Rates			
Point No. (1)	Name (2)	Name (3)	lb/hr	<u>TPY</u>			
TGU-ICN	Tail Gas Thermal Oxidizer	NO_x CO VOC PM_{10} SO_2 H_2S	9.98 24.68 0.31 1.52 104.88 0.06	22.59 25.95 0.68 3.33			
TGU-ICN2	Tail Gas Thermal Oxidizer	NO_x CO VOC PM_{10} SO_2 H_2S	9.98 24.68 0.31 1.52 104.88 0.06	22.59 25.95 0.68 3.33			
TGU-ICN, TGU-ICN		Tail Gas Thermal SO ₂					
	544.8 Oxidizers (5)	H ₂ S		0.28			
LL19DOCKD	Barge Loading	H ₂ S	7.79	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			

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES AIR CONTAMINANTS DATA

Emission *	Source	Air Contaminant	<u>Emission</u>	<u>Rates</u>
<u>^</u> Point No. (1)	Name (2)	Name (3)	1b/hr	TPY
TK921	Sour Water Tank	H₂S NH₃ VOC	0.04 0.08 1.26	0.11 0.21 3.47
TK922	Sour Water Tank	H₂S NH₃ VOC	0.04 0.08 1.26	0.11 0.21 3.47
TK810	Sour Water Tank	(6)		
TK868	Sour Water Tank	(6)		
TK870	Molten Sulfur Stora Tank	ge H₂S	<0.001	<0.001
TK871	Molten Sulfur Storag Tank	ge H₂S	<0.001	<0.001
TK2163	Anyhydrous Ammonia Storage Tank	NH₃	<0.001	<0.001
VES202	Sulfuric Acid Stora	ge H ₂ SO ₄	<0.001	<0.001
VES203	Sulfuric Acid Stora	ge H₂SO₄	<0.001	<0.001
SRU-FE	Sulfur Plant Fugitives (4)	VOC SO_2 H_2S CO COS CS_2 NH_3	0.12 0.01 0.51 <0.01 <0.01 <0.01 0.02	0.52 0.04 2.22 <0.01 <0.01 <0.01 0.11
SWS-FE	Sour Water System Fugitives (4)	VOC H₂S	0.02 <0.01	0.08 <0.01

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission *	Source Air	Contaminant	<u>Emission</u>	n Rates	
Point No. (1)	Name (2)	Name (3)	lb/hr	<u>TPY</u>	
		NH_3	<0.01	<0.01	
1415-FE	Amine Treating Units No. 14 and 15 Fugitives (4)	VOC H₂S	0.04 0.23	0.18 0.99	
AMINE-FE	New Amine Treating Unit Fugitives (4)	VOC H₂S	0.02 0.11	0.09 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 H₂S	0.04 <0.01	0.17 <0.01	
LCT-SULF	Cooling Tower 1	VOC	0.28	1.23	
CT-SRU	Cooling Tower 2	VOC	0.50	2.21	
FL44SRUNO	SRU North Emergency Fla	(6)			
FL44SRUSO	SRU South Emergency Fla	(6)			

- (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

 PM_{10} - particulate matter less than 10 microns

 NO_x - total oxides of nitrogen

SO₂ - sulfur dioxide CO - carbon monoxide

NH₃ - anhydrous fluoride

H₂SO₄ - sulfuric acid

 H_2S - hydrogen sulfide COS - carbonyl sulfide

CS₂ - carbon disulfide

- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) Annual emissions of sulfur compounds shall be limited to the total emissions from both tail gas incinerators.
- (6) Emergency Use Only

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EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

*	Emission followir						facili	ties	are	limited	by	the
	Hrs/day	[Days/	week	Weeks	s/yea	r	or F	lrs/ye	ear <u>8,760</u>	_	

Dated