

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 32833

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.

Emission *	Source	AIR CONTAMINANTS DATA		
		Air Contaminant	Emission Rates	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
QT-501 Flare Stack	Flare and Pilot	PM	0.27	0.10
		Ni/Fe/Cu	<0.01	<0.01
		VOC	<0.01	<0.01
		CO	132.98	51.53
		NO _x	5.44	2.09
		SO ₂	5.90	2.29
		HCl	8.5	2.91
		H ₂ S	<0.01	<0.01
		COS	0.05	0.02
		HCN	0.02	<0.01
	Volatile Heavy Metals			
	0.05	0.02		
	Pre-Heaters	PM	0.14	0.14
VOC		0.03	0.03	
CO		0.35	0.35	
NO _x		1.40	1.40	
SO ₂		<0.01	<0.01	
V720-V725	HCl	<0.01	<0.01	
HCl Loading	HCl	<0.01	<0.01	
SB-501 Baghouse	KB-201	PM	<0.01	<0.01
	KB-202	PM	<0.01	<0.01
	G-201 Tapping	PM	0.04	<0.01
	Casting Heater	PM	0.07	<0.01
		VOC	0.02	<0.01
CO		0.18	0.02	

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		NO _x	0.70	0.07
		SO ₂	<0.01	<0.01
AIR CONTAMINANTS DATA				
Emission *	Source	Air Contaminant	<u>Emission Rates</u>	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
SF-502	Carbon Filter	Tanker Depressurization	VOC	
	<0.01	<0.01		
	Stack and Tanks VT701-708			
TP-701	Scrubber	HCl Loading	HCl	0.012
		Tanks VT711-716	HCl	0.01
				0.02
Fugitives	Truck Sampling	VOC	0.16	0.02
	Piping Components (4)	VOC	0.25	1.09
		HCl	0.08	0.33
		NH ₃	<0.01	<0.01
QG-601	Stack	Spray Dryer	PM	0.11
			Ni/Fe/Cu	0.05
			HCl	0.10
				0.39
	Spray Dryer Heater	PM	0.08	0.33
		VOC	0.04	0.14
		CO	0.15	0.57
		NO _x	0.70	2.71
		SO ₂	<0.01	0.02
SF902	Carbon Filter Stack	VOC	<0.01	<0.01

(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 - total suspended particulate, including particulate matter 10 microns and smaller.

Ni - nickel

Fe - iron

Cu - copper

COS - carbonyl sulfide

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VOC - volatile organic compounds as defined in General Rule 101.1
NO_x - total oxides of nitrogen
SO₂ - sulfur dioxide
CO - carbon monoxide
HCl - hydrogen chloride
H₂S - hydrogen sulfide
HCN - hydrogen cyanide

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- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.

Facility operating schedule is 8,760 hours per year.

Dated_____