

## 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.

## AIR CONTAMINANTS DATA

Emission *	Source	Air Contaminant	<u>Emission Rates</u>	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
QT-501 Flare Stack	Flare and Pilot	PM	0.16	0.06
		Ni/Fe/Cu	<0.01	<0.01
		VOC	<0.01	<0.01
		CO	106.41	38.32
		NO <sub>x</sub>	5.43	2.06
		SO <sub>2</sub>	3.43	1.24
		HCl	3.61	1.30
		H <sub>2</sub> S	<0.01	<0.01
		COS	0.03	0.01
		HCN	0.013	<0.01
		Volatile Heavy Metals		
	0.02	<0.01		
	Pre-Heaters	PM	0.14	0.14
		VOC	0.03	0.03
		CO	0.35	0.35
		NO <sub>x</sub>	1.40	1.40
		SO <sub>2</sub>	<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
		NO <sub>x</sub>	0.70	0.07
		SO <sub>2</sub>	<0.01	<0.01
SF-502 Carbon Filter	Tanker Depressurization		VOC	

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Stack <0.01 and Tanks VT701-708 <0.01

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Emission *	Source	Air Contaminant	<u>Emission Rates</u>	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
TP-701 Scrubber	HCl Loading	HCl	0.012	<0.01
	Tanks VT711-716	HCl	0.01	0.02
Fugitives	Truck Sampling	VOC	0.16	<0.01
	Piping Components (4)	VOC	0.25	1.09
		HCl	0.08	0.33
QG-601 Stack	Spray Dryer	PM	0.05	0.24
		Ni/Fe/Cu	0.05	0.24
		HCl	0.10	0.44
	Spray Dryer Heater	PM	0.08	0.37
		VOC	0.04	0.16
		CO	0.15	0.64
		NO <sub>x</sub>	0.70	3.07
		SO <sub>2</sub>	<0.01	0.02

- (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 PM<sub>10</sub>  
 COS - carbonyl sulfide  
 VOC - volatile organic compounds as defined in General Rule 101.1  
 NO<sub>x</sub> - total oxides of nitrogen  
 SO<sub>2</sub> - sulfur dioxide  
 CO - carbon monoxide  
 HCl - hydrogen chloride  
 H<sub>2</sub>S - hydrogen sulfide  
 HCN - hydrogen cyanide  
 Ni - nickel  
 Fe - iron

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Cu - copper

- (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\_\_\_\_\_