

## EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 83776

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, sources, and related activities. 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)	Emission Rates	
			lbs/hour	TPY (4)
H-4A-MSS	Absorber Off-Gas Incinerator/Boiler No. 1	VOC	0.37	0.01
H-4B-MSS	Absorber Off-Gas Incinerator/Boiler No. 2	VOC	0.37	0.01
H-4C-MSS	Absorber Off-Gas Incinerator/Boiler No. 3	VOC	0.37	0.01
H-4D-MSS	Absorber Off-Gas Incinerator/Boiler No. 4	VOC	0.37	0.01
FL-G4-MSS	Process Flare	VOC	19.22	0.14
		SO <sub>2</sub>	1.96	0.02
		NO <sub>x</sub>	1.48	0.01
		CO	7.54	0.05
FL-G5-MSS	Hydrogen Cyanide Flare	VOC	4.36	0.13
		NO <sub>x</sub>	0.46	0.01
		CO	1.36	0.04
FL-G4A-MSS	Ammonia Flare	Ammonia	13.23	0.03
		NO <sub>x</sub>	7.29	0.02
		CO	5.82	0.01
FL-G14-MSS	CB&I Ammonia Flare	Ammonia	32.63	3.03
		NO <sub>x</sub>	10.61	1.67
		CO	14.35	1.33

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
FL-G32-MSS	CB&I Propylene Flare	VOC	8.12	1.21
		NO <sub>x</sub>	2.33	0.35
		CO	9.3	1.38
G-2-MSS	Quench Water Clarifier Vent Scrubber	VOC	9.72	7.79
H-3-MSS	Incinerator	VOC	0.08	0.01
TANKS-MSS	IFR Tanks Degassing & Landing Fixed Roof Tank Degassing	VOC	8.38	12.71
FUG-MSS (5)	Fugitives (5)	VOC	57.12	1.39
		Ammonia	14.47	0.14
		PM	5.34	1.57
		PM <sub>10</sub>	0.89	0.53

(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) Exempt Solvent - Those carbon compounds or mixtures of carbon compounds used as solvents which have been excluded from the definition of volatile organic compound.

VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code §

101.1

NO<sub>x</sub> - total oxides of nitrogen

SO<sub>2</sub> - sulfur dioxide

PM - total particulate matter, suspended in the atmosphere, including PM<sub>10</sub> and PM<sub>2.5</sub>, as represented

PM<sub>10</sub> - total particulate matter equal to or less than 10 microns in diameter, including PM<sub>2.5</sub>, as represented

PM<sub>2.5</sub> - particulate matter equal to or less than 2.5 microns in diameter

CO - carbon monoxide

(4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.

(5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.

Date September 20, 2012

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