

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 318

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 Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY **
AMM-CBFL32	Ammonia Storage Flare (Normal Operations)	NO _x	25.94	1.34
		CO	0.39	1.72
		SO ₂	0.01	0.01
		VOC	0.01	0.03
		NH ₃	45.07	0.95
AMM-FSTOR	Storage Tank Fugitives (4)	NH ₃	0.07	0.32
AMM-FDKAMB	Dock Fugitives (4)	NH ₃	0.01	0.04
AMM-FPIPE	Warm Pipeline Fugitives (4)	NH ₃	0.02	0.10
AMM-HT401	Glycol Heater Stack No. 1	NO _x	2.08	9.09
		CO	1.42	6.24
		PM ₁₀	0.13	0.56
		VOC	0.09	0.41
		SO ₂	0.01	0.04
AMM-HT402	Glycol Heater Stack No. 2	NO _x	2.08	9.09
		CO	1.42	6.24
		PM ₁₀	0.13	0.56
		VOC	0.09	0.41
		SO ₂	0.01	0.04
AMM-TFX185	East Diesel Tank for Firewater Pumps	VOC	0.02	0.01
AMM-TFX186	West Diesel Tank for Firewater Pumps	VOC	0.02	0.01

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY **
P&S-FNATGS	Natural Gas Handling Facilities (4)	VOC	0.04	0.16
AMM-PMP185	East Diesel Fire Pump Engine	VOC	0.86	0.01
		NO _x	10.85	0.14
		CO	2.34	0.03
		PM ₁₀	0.77	0.01
		SO ₂	0.72	0.01
AMM-PMP186	West Diesel Fire Pump Engine	VOC	0.86	0.01
		NO _x	10.85	0.14
		CO	2.34	0.03
		PM ₁₀	0.77	0.01
		SO ₂	0.72	0.01
AMM/TF407A	Sulfuric Acid Tank No. 1	H ₂ SO ₄	0.08	0.01
AMM/TF407B	Sulfuric Acid Tank No. 2	H ₂ SO ₄	0.08	0.01

MAINTENANCE, STARTUP, AND SHUTDOWN (MSS) EMISSIONS

AMM-CBFLR32	Ammonia Storage Flare (MSS Activities)	NO _x	6.12	0.22
		NH ₃	11.11	0.40
ACH-CBFLR	ACH Process Flare (5) (MSS Activities)	NO _x	0.03	0.01
		CO	0.29	0.01
		Acetone	0.86	0.01
MMA-PFL	MMA Flare (6) (MSS Activities)	NO _x	1.90	0.05
		CO	38.85	1.01
		SO ₂	166.67	1.66
		VOC	25.35	0.57
		Acetone	8.35	0.15

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY **
ABBLAST	Abrasive Blasting	PM	5.72	0.80
		PM ₁₀	0.68	0.10
		PM _{2.5}	0.07	0.01
ACH-ACEBS	Acetone Tank Roof Landing	Acetone	55.42	0.16
ACHTKBP	ACH Tank Bypass	VOC	0.08	0.03
		Acetone	0.56	0.04
AMMRV	Ammonia Relief Valves	NH ₃	0.02	0.01
ANAGAS	Analyzer Gas	NO _x	0.01	0.01
		CO	0.01	0.01
		SO ₂	0.02	0.01
CATHNDL	Catalyst Handling	PM	0.51	0.02
		PM ₁₀	0.12	0.01
		PM _{2.5}	0.06	0.01
DEPOLYTKVT	Depolying Tank Vent	VOC	16.22	0.26
EQCLR	Equipment Clearing	VOC	4.27	0.05
		NH ₃	0.05	0.01
LUBES	Lube Oil	VOC	0.01	0.01
MISC	Miscellaneous Maintenance	VOC	1.73	0.76
MMATKBP	MMA Tanks Bypass	VOC	1.00	0.43
MMATKBP2	MMA Tanks Bypass	VOC	37.60	0.74
MMTKCLN	1 MM-gallon Tank Cleaning	VOC	0.01	0.01
SAMPLE	Sampling	VOC	0.11	0.01

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY **
SARMISC	SAR Plant Miscellaneous Maintenance	NO _x	0.54	0.01
		SO ₂	2.16	0.01
SETCLN	Settler Cleaning	VOC	0.01	0.01
SPENTTKMNT	SAR Plant Spent Acid Tank Maintenance	VOC	7.14	3.25
		Acetone	3.78	1.59
SWASTE	Solid Material Transfer	PM	0.28	0.01
		PM ₁₀	0.10	0.01
		PM _{2.5}	0.06	0.01
TEMPTK	Temporary Tankage	VOC	0.81	0.04
		Acetone	0.05	0.01
TKMNT	Miscellaneous Tanks Maintenance	VOC	15.19	1.14
		Acetone	2.70	0.20
		SO ₂	1.00	0.08
		H ₂ SO ₄	1.00	0.08
VACTRK	Vacuum Trucks	VOC	0.25	0.06
WASTEVOG	VOC Containing Waste Handling Activities	VOC	2.50	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) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code ' 101.1.
NO_x - total oxides of nitrogen
CO - carbon dioxide
SO₂ - sulfur dioxide
SO₃ - sulfur trioxide
PM - particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5}.
PM₁₀ - particulate matter (PM) equal to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no particulate matter greater than 10 microns is emitted.
PM_{2.5} - particulate matter (PM) equal to or less than 2.5 microns in diameter.

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

NH_3 - ammonia
 H_2SO_4 - sulfuric acid

- (4) Emission rate is an estimate and compliance is demonstrated by meeting the requirements of the applicable special conditions and permit application representations.
 - (5) ACH Process Flare is authorized under Permit Number 19004.
 - (6) MMA Flare is authorized under Permit Number 19003.
- * Emission rates are based on and the facilities are limited by the following maximum operating schedule:
8,760 hrs/year.
- ** Compliance with the annual emission limits is based on a rolling 12-month period.

Dated:

August 31, 2011