Permit Numbers 18978 and PSD-TX-752M3

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 lb/hr	Rates (4) TPY **
QE1001B	Furnace 1 (6)	NO _x (PSD) CO (PSD) SO ₂ VOC PM ₁₀ (PSD)	10.2 10.2 0.3 1.5 2.2	409.2 409.2 11.4 58.4 88.0
QE1002B	Furnace 2 (6)	NO _x (PSD) CO (PSD) SO ₂ VOC PM ₁₀ (PSD)	10.2 10.2 0.3 1.5 2.2	
QE1003B	Furnace 3 (6)	NO _x (PSD) CO (PSD) SO ₂ VOC PM ₁₀ (PSD)	10.2 10.2 0.3 1.5 2.2	
QE1004B	Furnace 4 (6)	NO _x (PSD) CO (PSD) SO ₂ VOC PM ₁₀ (PSD)	10.2 10.2 0.3 1.5 2.2	
QE1005B	Furnace 5 (6)	NO_x (PSD) CO (PSD) SO_2 VOC PM_{10} (PSD)	10.2 10.2 0.3 1.5 2.2	

AIR CONTAMINANTS DATA

Emission	Source	Air Contaminant	Emission I	Emission Rates *	
Point No. (1)	Name (2)	Name (3)	lb <u>/hr</u>	TPY**	
QE1006B	Furnace 6 (6)	NO_x (PSD) CO (PSD) SO_2 VOC PM_{10} (PSD)	10.2 10.2 0.3 1.5 2.2		
QE1007B	Furnace 7 (6)	NO_x (PSD) CO (PSD) SO_2 VOC PM_{10} (PSD)	10.2 10.2 0.3 1.5 2.2		
QE1008B	Furnace 8 (6)	NO_x (PSD) CO (PSD) SO_2 VOC PM_{10} (PSD)	10.2 10.2 0.3 1.5 2.2		
QE1009B	Furnace 9 (6)	NO_x (PSD) CO (PSD) SO_2 VOC PM_{10} (PSD)	11.2 11.2 0.3 1.6 2.4		
QE1010B	Furnace 10 (6)	NO_x (PSD) CO (PSD) SO_2 VOC PM_{10} (PSD)	11.2 11.2 0.3 1.6 2.4		
QE5802UA	Boiler A	NO_x (PSD) CO (PSD) SO_2 VOC PM_{10} (PSD)	8.9 8.9 0.3 1.3 1.9	39.1 39.1 1.1 5.6 8.4	

AIR CONTAMINANTS DATA

Emission	Source	Air Contaminant	Emission Rates *	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY**
QE5802UB	Boiler B	NO _x (PSD) CO (PSD) SO ₂ VOC PM ₁₀ (PSD)	8.9 8.9 0.3 1.3 1.9	39.1 39.1 1.1 5.6 8.4
QECOMP1	Diesel Compressor	NO_x (PSD) CO (PSD) SO_2 VOC PM_{10} (PSD)	6.1 0.1 0.1 0.1 0.1	6.7 0.1 0.1 0.2 0.1
QECOMP2	Diesel Compressor	NO _x (PSD) CO (PSD) SO ₂ VOC PM ₁₀ (PSD)	6.1 0.1 0.1 0.1 0.1	6.7 0.1 0.1 0.2 0.1
QE6410F	Pyrolysis Gasoline Tank	VOC	2.5	5.9
QE6411F	Pyrolysis Fuel Oil Tank	VOC	0.10	0.19
QE2410F	Wash Oil Drum	VOC	0.26	0.08
QE3416F	Methanol Tank	VOC	0.18	0.15
QE1416F	Decoking Drum	CO (PSD) PM ₁₀ (PSD)	519.0 4.14	101.6 0.9
QE7801U	Cooling Tower Fugitives (4) VOC	7.14	31.27
QE3418F	MAPD Decoke Pot	CO (PSD)	17.30	1.45

Permit Numbers 18978 and PSD-TX-752M3

Page 4

AIR CONTAMINANTS DATA

Emission	Source	Air	Contaminant	Emission Ra	tes *
Point No. (1)	Name (2)		Name (3)	lb/hr	TPY**
QE3050B	ARU Flare	NO _x SO ₂	CO (PSD) (PSD) 0.1 VOC	15.1 2.9 0.1 12.5	6.0 1.1 1.1
QE8050B	Elevated Flare	VOC	CO (PSD) NO _x (PSD) SO ₂ 117.0	181.0 52.0 10.3 1.6	25.0 10.7 0.3
QE7412F	Wash Oil Tank		VOC	0.56	0.17
QELOAD	Organic Loading		VOC	1.40	1.24
QESTORE	Organic Storage		VOC	0.98	1.01
QE8001A	Wastewater System		VOC	3.64	14.66
QELAB	Analyzers and Sampling		VOC	6.0	0.13
QEFUG	Process Fugitives		VOC	14.6	64.0
QEANALYZ2	Analyzer Control Device	S	VOC CO (PSD) NO _x (PSD)	0.1 0.1 0.1	0.1 0.1 0.1
QEZIMPRO	Zimpro Vent		VOC	4.5	3.8
QEUNIT	Dock Thermal Oxidizer (5)	NO _x (PSD) CO (PSD) VOC PM ₁₀ (PSD)	10.7 7.7 13.8 0.06	4.7 6.2 4.1 0.03

- (1) Emission point identification either specific equipment designation or emission point number from a plot plan.
- (2) Specific point source names. For fugitive sources use area name or fugitive source name.
- (3) NO_x total oxides of nitrogen

CO - carbon monoxide

SO₂ - sulfur dioxide

VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1

PM₁₀ - particulate matter (PM)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.

- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) The Dock Thermal oxidizer is owned and operated by Millenium Petrochemicals, Inc., under Permit Number 4751.
- (6) The combined annual emissions for these units shall not exceed the values listed at QE1001B.
- * Emission rates are based on and the facilities are limited by the following maximum operating schedule:

Hrs/dayDays/week	Weeks/year_	or Hrs/year_	8,760
------------------	-------------	--------------	-------

** Compliance with annual emission limits is based on a rolling 12-month period.