EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Numbers 85862 and PSD-TX-1153

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	Emission Rates *					
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY**				
STCK_1A	CTG-HRSG1A	NO _x	17.29	70.16				
	Stack (GE 7FA)	NO _x [Startup & Shutdown]	226.00					
		VOC	12.02	21.86				
		VOC [Startup & Shutdown]	113.00					
		CO	59.78	177.78				
		CO [Startup & Shutdown]	1750.00					
		PM ₁₀	22.53	83.14				
		SO ₂	14.72	12.04				
		H ₂ SO ₄	0.95	0.78				
		Ammonia	22.40	90.75				
STCK_1B	CTG-HRSG1B	NO _x	17.29	70.16				
	Stack (GE 7FA)	NO_x [Startup & Shutdown]	226.00					
		VOC	12.02	21.86				
		VOC [Startup & Shutdown]	113.00					
		CO	59.78	177.78				
		CO [Startup & Shutdown]	1750.00					
		PM ₁₀	22.53	83.14				
		SO ₂	14.72	12.04				
		H ₂ SO ₄	0.95	0.78				
		Ammonia	22.40	90.75				
CT1	Unit 1 Cooling Tower	PM ₁₀	0.79	3.44				
STCK 2A	CTG-HRSG2A	NO _x	17.29	70.16				
_	Stack (GE 7FA)	NO _x [Startup & Shutdown]	226.00					
		voc	12.02	21.86				
		VOC [Startup & Shutdown]	113.00					
		co	59.78	177.78				
		CO [Startup & Shutdown]	1750.00					
		PM ₁₀	22.53	83.14				

Project Number: 140268

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

SO2	_	,		•	_
Ammonia Z2.40 90.75			SO ₂	14.72	12.04
STCK_2B CTG-HRSG2B Stack (GE 7FA) NO₂ (Startup & Shutdown) 17.29 (26.00 (2			H ₂ SO ₄	0.95	0.78
Stack (GE 7FA) NO₂ [Startup & Shutdown] VOC 12.02 21.86 226.00 12.02 21.86 VOC (Startup & Shutdown] CO (Startup & Shutdown] PM₁0 22.53 83.14 177.78 CO [Startup & Shutdown] PM₁0 22.53 83.14 22.53 83.14 SO₂ 14.72 12.04 P₂SO₄ Ammonia 22.40 90.75 12.04 90.75 CT2 Unit 2 Cooling Tower PM₁0 0.79 3.44 AB Auxiliary Boiler 300 MMBtu/hr NO₂ 3.23 3.23 3.23 CO 5.48 5.48 5.48 5.48 5.49 PM₁0 1.50 1.50 1.50 SO₂ 0.18 0.18 0.18 EG Emergency Generator NO₂ 41.87 2.09 0.91 0.05 CO 3.43 0.17 PM₁0 SO₂ 1.00 0.05 FWP Fire Water Pump NO₂ VOC 0.23 0.01 SO₂ 1.00 0.05 0.23 0.01 SO₂ 0.006 PM₁0 0.16 0.005 SO₂ 0.20 0.006 PM₁0 0.16 0.005 SO₂ 0.12 0.004 FUG-NH1 SCR Piping Fugitives Ammonia 0.10 0.45 Piping Fugitives FUG-NGP Natural Gas Piping VOC 0.02 0.06			Ammonia	22.40	90.75
Stack (GE 7FA) NO₂ [Startup & Shutdown] VOC 12.02 21.86 226.00 12.02 21.86 VOC (Startup & Shutdown] CO (Startup & Shutdown] PM₁0 22.53 83.14 177.78 CO [Startup & Shutdown] PM₁0 22.53 83.14 22.53 83.14 SO₂ 14.72 12.04 P₂SO₄ Ammonia 22.40 90.75 12.04 90.75 CT2 Unit 2 Cooling Tower PM₁0 0.79 3.44 AB Auxiliary Boiler 300 MMBtu/hr NO₂ 3.23 3.23 3.23 CO 5.48 5.48 5.48 5.48 5.49 PM₁0 1.50 1.50 1.50 SO₂ 0.18 0.18 0.18 EG Emergency Generator NO₂ 41.87 2.09 0.91 0.05 CO 3.43 0.17 PM₁0 SO₂ 1.00 0.05 FWP Fire Water Pump NO₂ VOC 0.23 0.01 SO₂ 1.00 0.05 0.23 0.01 SO₂ 0.006 PM₁0 0.16 0.005 SO₂ 0.20 0.006 PM₁0 0.16 0.005 SO₂ 0.12 0.004 FUG-NH1 SCR Piping Fugitives Ammonia 0.10 0.45 Piping Fugitives FUG-NGP Natural Gas Piping VOC 0.02 0.06	STCK_2B	CTG-HRSG2B	NO _x	17.29	70.16
VOC [Startup & Shutdown]	_	Stack (GE 7FA)	NO _x [Startup & Shutdown]	226.00	
CO [Startup & Shutdown]			VOC	12.02	21.86
CO [Startup & Shutdown]			VOC [Startup & Shutdown]	113.00	
PM ₁₀ SO ₂ 14.72 12.04 14.72 12.04 14.72 12.04 14.72 12.04 14.72 12.04 14.72 12.04 14.72 12.04 14.72 12.04 14.72 12.04 14.72 12.04 14.72 12.04 14.75 14.				59.78	177.78
SO2			CO [Startup & Shutdown]	1750.00	
CT2 Unit 2 Cooling Tower PM₁0 0.79 3.44 AB Auxiliary Boiler 300 MMBtu/hr NOx			PM ₁₀	22.53	83.14
Ammonia 22.40 90.75			SO ₂	14.72	12.04
CT2 Unit 2 Cooling Tower PM₁₀ 0.79 3.44 AB Auxiliary Boiler 300 MMBtu/hr NO₂ 3.23 3.23 300 MMBtu/hr VOC 0.38 0.38 0.38 CO 5.48 5.48 5.48 PM₁₀ 1.50 1.50 SO₂ 0.18 0.18 EG Emergency Generator NO₂ 41.87 2.09 CO 3.43 0.17 0.05 CO 3.43 0.17 0.23 0.01 SO₂ 1.00 0.05 FWP Fire Water Pump NO₂ 3.55 0.107 VOC CO 0.28 0.008 0.008 CO 0.20 0.006 0.005 FUG-NH1 SCR Piping Fugitives Ammonia 0.10 0.45 FUG-NGP Natural Gas Piping VOC 0.02 0.06			H ₂ SO ₄	0.95	0.78
Tower Auxiliary Boiler NO₂ 3.23 3.23 300 MMBtu/hr VOC 0.38 0.38 CO 5.48 5.48 PM₁₀ 1.50 1.50 SO₂ 0.18 0.18 EG Emergency Generator NO₂ 41.87 2.09 Generator VOC 0.91 0.05 CO 3.43 0.17 PM₁₀ 0.23 0.01 SO₂ 1.00 0.05 FWP Fire Water Pump NO₂ 3.55 0.107 VOC 0.28 0.008 CO 0.20 0.006 PM₁₀ 0.16 0.005 SO₂ 0.12 0.004 FUG-NH1 SCR Piping Fugitives Ammonia 0.10 0.45 FUG-NGP Natural Gas Piping VOC 0.02 0.06			Ammonia	22.40	90.75
AB Auxiliary Boiler 300 MMBtu/hr NOx 0.38 0.38 0.38 0.38 0.38 0.38 0.38 0.38	CT2	Unit 2 Cooling	PM ₁₀	0.79	3.44
300 MMBtu/hr		Tower			
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	AB	Auxiliary Boiler	NOx	3.23	3.23
EG Emergency SO₂ NO₂ 41.87 2.09 Generator VOC 0.91 0.05 CO 3.43 0.17 PM₁₀ 0.23 0.01 SO₂ 1.00 0.05 FWP Fire Water Pump NO₂ 3.55 0.107 VOC 0.28 0.008 CO 0.20 0.006 PM₁₀ 0.16 0.005 FUG-NH1 SCR Piping Fugitives Ammonia 0.10 0.45 FUG-NGP Natural Gas Piping VOC 0.02 0.06		300 MMBtu/hr	VOC	0.38	0.38
EG Emergency Generator NOx VOC 41.87 2.09 CO 0.91 0.05 CO 3.43 0.17 PM10 0.23 0.01 SO2 1.00 0.05 FWP Fire Water Pump NOx VOC 0.28 0.008 CO 0.20 0.006 0.006 PM10 SO2 0.12 0.004 FUG-NH1 SCR Piping Fugitives Ammonia 0.10 0.45 FUG-NGP Natural Gas Piping VOC 0.02 0.06			CO	5.48	5.48
EG Emergency Generator NOx VOC 0.91 0.05 0.05 0.01 0.05 0.05 0.01 0.05 0.01 0.05 0.01 0.05 0.01 0.02 0.01 0.005 0.001 0.005 0.005 0.000 0.005 0.000 0.005 0.000 0.005 0.000 0			PM ₁₀	1.50	1.50
Generator VOC 0.91 0.05 CO 3.43 0.17 PM ₁₀ 0.23 0.01 SO ₂ 1.00 0.05 FWP Fire Water Pump NO _x 3.55 0.107 VOC 0.28 0.008 CO 0.20 0.006 PM ₁₀ 0.16 0.005 SO ₂ 0.12 0.004 FUG-NH1 SCR Piping Ammonia 0.10 0.45 Fugitives FUG-NGP Natural Gas Piping VOC 0.02 0.06			SO ₂	0.18	0.18
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	EG	Emergency		41.87	2.09
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		Generator		0.91	0.05
FWP Fire Water Pump NOx VOC 0.28 0.008 0.008 0.006 0.20 0.006 0.20 0.006 0.005 0.12 0.005 0.12 0.004 FUG-NH1 SCR Piping Fugitives Ammonia 0.10 0.45 0.005 0.006 0.0			CO		
FWP Fire Water Pump NO _x VOC 0.28 0.008 0.008 0.008 0.006 0.20 0.006 0.006 0.16 0.005 0.12 0.004 FUG-NH1 SCR Piping Fugitives Ammonia 0.10 0.45 0.005 0.006 0.00			==		
VOC 0.28 0.008 CO 0.20 0.006 PM ₁₀ 0.16 0.005 SO ₂ 0.12 0.004 FUG-NH1 SCR Piping Fugitives Ammonia 0.10 0.45 FUG-NGP Natural Gas Piping VOC 0.02 0.06					
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	FWP	Fire Water Pump	NO _x		0.107
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$					
FUG-NH1 SCR Piping Ammonia 0.10 0.045 FUG-NGP Natural Gas Piping VOC 0.02 0.06			CO	0.20	
FUG-NH1SCR Piping FugitivesAmmonia0.100.45FUG-NGPNatural Gas PipingVOC0.020.06			PM ₁₀		
Fugitives 0.02 0.06			<u> </u>		0.004
FUG-NGP Natural Gas Piping VOC 0.02 0.06	FUG-NH1	SCR Piping	Ammonia	0.10	0.45
		Fugitives			
Fugitives	FUG-NGP	Natural Gas Piping	VOC	0.02	0.06
		Fugitives			

- (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 an 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_x total oxides of nitrogen
 - SO₂ sulfur dioxide

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

H₂SO₄ - sulfuric acid

PM₁₀ - particulate matter equal to or less than 10 microns in diameter

CO - carbon monoxide

- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- * Emission rates are based on and the facilities are limited by the following maximum operating schedule:

__Hrs/day __Days/week __Weeks/year or 8760_Hrs/year

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

