EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Numbers 1302 and PSDTX1085

[409379] Draft 6 !!

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 **
PH2	Start-Up Flare	VOC	577.88	15.60
	Interim until 12/31/2011	CO	322.44	16.82
		NO_x	60.74	4.86
		NH_3	393.16	25.02
		SO_2	0.12	0.01
PH2	Start-Up Flare	VOC	165.17	6.20
	After 12/31/2011	CO	258.22	18.62
		NO_x	65.84	5.40
		NH_3	80.34	4.88
		SO_2	0.23	0.02
PH3	ADN Operating Flare	VOC	191.54	92.42
	Routine Operations	CO	513.89	307.75
		NO_x	33.90	22.60
		SO_2	0.92	2.91
		HCl	0.07	0.19
	ADN Operating Flare	VOC	565.80	
	Maintenance Startup and	NO_x	139.52	
	Shutdown (MSS) Operations (5)	SO_2		1.23

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	TPY **
PH70	Ammonia Flare	VOC	4.68	0.34
		CO	64.88	4.24
		NO_x	64.41	3.91
		NH_3	112.67	6.76
		SO_2	0.01	0.01
PH63	HCN Loading Flare	VOC	10.22	3.07
		CO	14.81	8.10
		NO_x	1.73	0.94
		NH_3	0.20	0.02
		SO_2	0.01	0.01
PA403	Building 3056 Fugitive (4)	VOC	0.45	1.99
PA404	Building 3040 Fugitive (4)	VOC	4.95	21.68
PA405	Building 3050 Fugitive (4)	VOC	5.27	23.09
PA406	Building 3092 Fugitive (4)	VOC	0.08	0.37
PA407	Building 3045/3055 Fugitive (4)	VOC	0.61	2.66
		HCl	0.01	0.01
PC408	Building 3065/3099 Fugitive (4)	VOC	2.36	10.37
		HCl	0.03	0.13
PC409	Building 3068 Fugitive (4)	VOC	0.86	3.77
		HCl	0.01	0.01
PF410	311 Tank Farm Fugitive (4)	VOC	0.13	0.55

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	TPY **
PF414	3047 Rail Rack Fugitive (4)	VOC	0.19	0.82
PH401	Building 3030/3032 Fugitive (4)	VOC	3.09	13.56
		NH_3	3.60	15.75
PH402	Building 3090 Fugitive (4)	VOC	0.02	0.10
PH601	E HCN OD Stack	VOC	0.01	0.01
		NH_3	0.01	0.01
PH602	W HCN OD Stack	VOC	0.01	0.01
		NH_3	0.01	0.01
PC82	Dust Collector	PM	0.03	0.01
PT301	Tank	INORGANIC	0.01	0.01
PT302	Tank	INORGANIC	0.01	0.01
PT303	Tank	INORGANIC	0.01	0.01
PT304	Tank	VOC	0.01	0.01
PT305	Decanter	VOC	0.01	0.01
PT60	Absorber	VOC	3.21	2.91

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 **
PA39	Fume Abator (Incinerator)	VOC	0.48	1.05
		CO	0.01	0.01
		NO_x	2.00	5.12
		SO_2	0.01	0.01
		NH_3	0.01	0.01
PT326	Tank	VOC	0.01	0.01
PT329	Tank	VOC	2.51	0.24
PT335	Tank	VOC	0.03	0.01
PT308	Tank	VOC	1.88	0.36
PT10	HCL Scrubber/Tank	HCl	0.17	0.02
PT10	HCL Scrubber/Tank - Maintenance, startup, and shutdown (MSS)	HCl	0.16	0.01
PT341	Tank	VOC	0.01	0.01
PT342	Tank	VOC	0.13	0.08
PT343	Tank	VOC	0.13	0.08
PT342, PT343	Annual Tanks PT342 and PT342 Limit	VOC	--	0.08
PT344	Tank	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 **
PT345	Tank	VOC	0.01	0.01
PT347	Tank	VOC	0.01	0.01
PT349	Tank	VOC	0.02	0.01
PT369	Tank	VOC	0.01	0.01
PT370	Tank	VOC	0.01	0.01
PT371	Tank	VOC	0.01	0.01
PT379	Tank	VOC	0.01	0.01
PT380	Tank	VOC	0.01	0.01
PT383	Tank	VOC	11.30	3.85
PT384	Tank	VOC	11.30	3.85
PT383, PT384	Annual Tanks PT383 and PT384 Limit	VOC	--	3.85
PT387	Tank	VOC	0.01	0.01
PT388	Tank	VOC	0.01	0.01
PC83	Building Vent	PM	6.00	0.75

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 **
PN628	ADN Analyzer Vent	VOC	0.01	0.01
PN601	NG Plant KO Pot	VOC	0.05	0.22
PH627	HCN Analyzer Vent	VOC	0.01	0.01
PN301	Tank	VOC	0.01	0.01
PN302	Tank	VOC	0.01	0.01
PT353	Tank	VOC	0.01	0.01
PT354	Tank	VOC	0.01	0.01
PT355	Tank	VOC	0.01	0.01
PT353, PT354, PT355	Annual Tanks PT353, PT354, and PT355 Limit	VOC	--	0.01
PT381	Tank	VOC	5.31	2.08
PT382	Tank	VOC	5.30	2.08
PT381, PT382	Annual Tanks PT381 and PT382 Limit	VOC	--	2.08
PN447	Gas Plant Fugitive (4)	VOC	0.57	2.49
PF412	513 Tank Farm Fugitive (4)	VOC	0.01	0.02

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 **
PF413A	Cooling Tower Fugitive (4)	INORGANIC	0.08	0.32
PF413	ADN Cooling Tower	PM	0.38	1.65
PF415	3058 Tank Farm Fugitive (4)	VOC	0.23	1.01
PF900	Parts Degreaser	VOC	0.025	0.01
PF901	Dust Collector	PM	0.55	0.10
PF40	South ADN Boiler	VOC	1.79***	5.26
		CO	56.68***	151.34
		NO_x	490.00***	2407.04
		PM	13.69***	15.39
		HCl	2.96***	4.38
		Cl_2	0.72***	1.06
		SO_2	0.23***	1.00
PF41	North ADN Boiler	VOC	1.79***	5.26
		CO	69.38***	151.34
		NO_x	637.00***	2407.04
		PM	13.69***	15.39
		HCl	2.96***	4.38
		Cl_2	0.72***	1.06
		SO_2	0.23***	1.00

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 **
PF40/PF41	Annual South and North ADN Boilers Limit	VOC	--	5.26
		CO	--	151.34
		NO_x	--	2407.04
		PM	--	15.39
		HCl	--	4.38
		Cl_2	--	1.06
		SO_2	--	1.00
PF416	Boiler Fugitive (4)	VOC	0.07	0.31
PT399	Misc Tanks	VOC	0.01	0.01
PW450	Wastewater Fugitive (4)	VOC	0.05	0.01
PC22	Carbon Drum	VOC	0.01	0.01
PC425	Drum	VOC	0.03	0.01
PC426	Drum	VOC	0.01	0.01
PC23	Carbon Drum	VOC	0.01	0.01
PF601	North ADN Boiler Analyzer Vent	VOC	0.01	0.01
		CO	0.01	0.04
		NO_X	0.08	0.35
		PM	0.01	0.01
		HCl	0.01	0.01
		Cl_2	0.01	0.01
		SO_2	0.01	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 **
PF600	South ADN Boiler Analyzer Vent	VOC	0.01	0.01
		CO	0.01	0.03
		NO_X	0.06	0.27
		PM	0.01	0.01
		HCl	0.01	0.01
		Cl_2	0.01	0.01
		SO_2	0.01	0.01
Nitrile TO	Nitrile Thermal Oxidizer (Scenario I) (5)	CO	3.72	5.21
		H_2S	0.01	0.01
		NH_3	0.10	0.01
		NO_X	6.04	9.04
		$PM/PM_{10}/PM_{2.5}$	0.22	0.49
		SO_2	0.01	0.02
		VOC	2.17	2.32
Promoter TO	Promoter Thermal Oxidizer (Scenario I) (5)	CO	2.96	2.08
		H_2S	0.01	0.01
		NO_X	4.00	2.63
		$PM/PM_{10}/PM_{2.5}$	0.13	0.11
		SO_2	0.01	0.01
		VOC	0.95	0.57
Combined TO	Combined Thermal Oxidizer (Scenario II) (6)	CO	5.67	6.68
		H_2S	0.01	0.01
		NH_3	0.10	0.01
		NO_X	6.50	10.51
		$PM/PM_{10}/PM_{2.5}$	0.27	0.37
		SO_2	0.01	0.02
		VOC	2.51	2.05

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 **
CS-111	Aqueous Sump	VOC	0.25	0.06
K-101	Tank	VOC	0.01	0.01
FUG-VCSWS	VCSWS Fugitives	VOC	0.49	2.13
TRKRL	Tank Truck Loading	VOC	0.07	0.04
FT-331	Tank FT-331	VOC	0.19	0.04
Maintenance Startup and Shutdown (MSS) Activities				
MSSFUG	MSS fugitives	VOC	3.19	0.23
		NH_3	0.01	0.01
PA39-MSS	Fume Abator MSS Activities	NO_x	0.02	0.01
		CO	0.01	0.01
		VOC	0.18	0.02
TKCL-MSS	Combustion Device for Tank Cleaning	NO_x	0.62	0.07
		CO	0.03	0.01
		VOC	3.34	0.31
TOFA-MSS	Thermal Oxidizer for Maintenance	NO_x	1.98	0.93
		CO	1.13	1.31
		VOC	32.30	0.68
PT60-MSS	VOC Absorber Emissions During Maintanance	VOC	3.09	0.05

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AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	TPY **
CCTEMP	Carbon Canister Promoter Area MSS	VOC	0.11	0.03
CBA	Carbon Canister during VOC Absorber Maintenance	VOC	2.85	1.05
PT10-MSS	HCL Scrubber during MSS	VOC	0.16	0.01
ENGINE-MSS	Portable Engines	NO_x	8.02	3.78
		VOC	0.16	0.43
		CO	3.61	2.01
		SO_2	0.01	0.01
		PM_{10}	0.10	0.34

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

(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) CO - carbon monoxide
NO_X - total oxides of nitrogen
NH_3 - ammonia
SO_2 - sulfur dioxide
HCl - hydrogen chloride
Cl_2 - chlorine
PM - particulate matter, suspended in the atmosphere, including PM_{10}
PM_{10} - particulate matter equal to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no PM greater than 10 microns is emitted.
$PM_{2.5}$ - particulate matter equal to or less than 2.5 microns in diameter.
VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
(4) Emission rate is an estimate and compliance is demonstrated by meeting the requirements of the applicable special conditions and permit application representations.
(5) Emissions under Scenario I. If the holder of this permit chooses to operate under Scenario I, the emission rates for Scenario II cease to apply.
(6) Emissions under Scenario II. If the holder of this permit chooses to operate under Scenario II, the emission rates for Scenario I cease to apply.

* Emission rates are based on and the facilities are limited by the following maximum operating schedule:

Hrs/day 24 Days/week 7 Weeks/year 52 or Hrs/year 8,760

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

*** lb/hr limits for North and South ADN Boilers are based on a 30-day rolling average