EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 105

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
103	Toluene Storage	Toluene	0.25	0.46
104	Toluene Fugitives (4)	Toluene	0.09	0.38
113	NO_x Reduction Unit	NO_x	6.00	13.00
		CO	4.00	8.70
		HCN	0.23	1.01
		DNT	0.11	0.50
		Toluene	0.24	1.06
115	DNT Vent Scrubber	DNT	0.07	0.30
124A	DNT Unit-1 Fugitives (4)	MNT	0.01	0.02
		Toluene	0.01	0.01
124B	DNT Unit-2 Fugitives (4)	MNT	0.01	0.02
		Toluene	0.01	0.01
152	DNT Feed Tank Vent	DNT	0.04	0.02
153	Nitric Acid Loading/Unloading	NO_x (as NO_2)	0.01	0.02
		HNO_3	0.03	0.14
		DNT	0.02	0.07
160	Acid Storage Tank Vent	H_2SO_4	0.01	0.01
161	Acid Storage Tank Vent	H_2SO_4	0.01	(5)
162	Acid Storage Tank Vent	NO_x (as NO_2)	0.11	0.40
		CO	4.4	16.58
		VOC	0.01	0.01
163	Acid Storage Tank Vent	NO_x (as NO_2)	0.11	(6)
		CO	4.4	(6)
		VOC	0.01	(6)
164	Acid Storage Tank Vent	H_2SO_4	0.01	0.01

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AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	TPY**
165	Acid Storage Tank (7)	H_2SO_4	0.01	0.01
		NO_x (as NO_2)	0.11	0.02
		CO	4.4	0.64
		VOC	0.01	0.01
166	Acid Storage Tank (7)	H_2SO_4	0.01	(8)
		NO_x (as NO_2)	0.11	(8)
		CO	4.4	(8)
		VOC	0.01	(8)
107	Soda Ash Storage Tank	Na_2CO_3	0.07	0.02
CLEAN	Fixed Roof Tank Cleaning	VOC (DNT)	<0.01	0.01
		H2SO4	<0.01	0.01
103FLOAT	Tank 103 Floating and Landing	VOC (Toluene)	4.01	0.02
103FV	Tank 103 Forced Ventilation	VOC (Toluene)	9.39	0.11
115FV	Tank 115 Forced Ventilation	VOC (DNT)	<0.01	0.01
113DEGASTA	Process Turnaround (Controlled)	VOC	0.28	0.01
		CO	0.39	0.01
		NOx	1.29	0.02
		PM	0.19	0.01
		SOx	0.02	0.01
		H2SO4	<0.01	0.13
113DEGASROU	Unit Turnaround (Controlled)	VOC	0.11	0.02
		CO	<0.01	0.02
		NOx	<0.01	0.06
		PM	0.06	0.01
		SOx	0.01	0.01
		H2SO4	<0.01	0.36
DEGASTA	Process Turnaround (Uncontrolled)	VOC	10.59	0.27
		H2SO4	0.05	0.37

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AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	TPY**
DEGASROU	Unit Turnaround (Uncontrolled)	VOC	<0.01	0.48
		H2SO4	<0.01	1.08
113MSS	NOx Reduction Unit (MSS)	VOC	0.05	<0.01
		CO	8.00	0.45
		NOx	6.00	0.34
		PM	0.07	<0.01
		SOx	0.01	<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) H_2SO_4 - sulfuric acid
NO_x - total oxides of nitrogen
NO_2 - nitrogen dioxide
CO - carbon monoxide
HCN - hydrogen cyanide
HNO_3 - nitric acid
DNT - dinitrotoluene
MNT - mononitrotoluene
VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code ' 101.1
Na_2CO_3 - sodium carbonate
(4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
(5) Annual emissions from Emission Point No. (EPN) 161 are included in annual emission rate for EPN 160.
(6) Annual emissions from EPN 163 are included in the annual emission rate for EPN 162.
(7) Emissions from EPNs 165 and 166 will occur only when the tanks associated with EPNs 162 and 163 are out of service.
(8) Annual emissions from EPN 166 are included in the annual emission rate for EPN 165. Annual emissions from these tanks are based on operation in this service for two weeks per year.

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

_____ Hrs/day _____ Days/week _____ Weeks/year or 8,760 Hrs/year

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

Dated June 30, 2011