EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 3179

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
H9200	Incinerator	VOC	24.1	10.0
		NO_x	11.0	14.1
		CO	0.9	1.2
		PM_{10}	0.4	0.5
		SO_2	<0.1	<0.1
		Acetone	8.9	8.0
F8300	Heavy Ends Furnace	VOC	<0.1	0.2
		NO_x	1.6	7.6
		CO	0.4	1.9
		PM_{10}	0.2	0.8
		SO_2	<0.1	<0.1
F8301	Regen. Furnace	VOC	0.1	0.1
		NO_x	0.3	0.1
		CO	0.1	0.1
		PM_{10}	0.1	0.1
		SO_2	0.1	0.1
D306/D307	Phenol Tanks	VOC	53.2	5.0
D313	Toluene Tank	VOC	7.9	0.7
D342	Cumene Tank	VOC	18.1	1.9
D390	Acetone Tank	Acetone	1.7	2.0
D391	Acetone Tank	Acetone	1.7	2.0
D392	Acetone Tank	Acetone	1.7	2.0

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AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	TPY
D393	Benzene Tank	VOC	0.46	1.2
D394	Cumene Tank	VOC	20.3	0.9
D395	Cumene Tank	VOC	20.3	0.5
D400	Cumene Tank	VOC	4.2	0.5
D402/D403	Phenol Tanks	VOC	6.2	5.1
EX67	Caustic Tank	Caustic	0.5	0.1
S303A	Sulfuric Acid Tank	H_2SO_4	0.1	0.1
EX80	Wastewater Tank	VOC Acetone	0.4 <0.1	0.4 0.2
WRACKFE	Acetone Land Loading Fugitives (4)	Acetone	6.7	5.4
SCRWRTC/ SCRWRTT	Acetone Land Loading Vent Scrubbers	Acetone	1.2	1.0
V9300	Phenol Land Loading	VOC	2.9	0.6
PAUFE	Fugitives (4)	VOC	18.4	80.5
ANALYZER	Process Analyzers	VOC	0.1	0.2
CWT13	Cooling Water Tower	VOC	2.1	9.2
CPI	CPI Separator	VOC	4.0	3.0
EPFLARE	East Property Flare	VOC	27.0	15.8

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AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	TPY
		NO_x	1.6	1.0
		CO	8.2	4.8
V8217	V-8217 Relief Drum	VOC	0.1	0.4
E8256	Cleavage Reactor Vent	Acetone	1.3	5.7
E8309	Acetone Finishing Column	Acetone	1.0	4.4
A1333	HIPA Flare (5)	VOC	0.1	0.4
		NO_x	0.1	0.6
		CO	0.9	4.0
CWT18	Cooling Water Tower	VOC	2.1	9.2
D345	Acetone Tank	Acetone	0.7	1.1
F335	Acetone Tank	Acetone	0.8	0.9
F354	Acetone Tank	Acetone	2.1	4.0
FUGPAU3	Phenol 3 Fugitives (4)	VOC	2.6	11.5
		Acetone	0.5	2.2
G330	Cumene Tank	VOC	40.8	15.2
G331	Cumene Tank	VOC	40.8	15.2
H87002	Thermal Oxidizer	VOC	6.7	26.7
		NO_x	0.9	3.9
		CO	0.5	2.2
		PM_{10}	<0.1	0.1
		Acetone	1.5	3.4

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

Permit No. 3179
Page 4

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
T87301	Acetone Tank	Acetone	0.6	
T87302	Acetone Tank	Acetone	0.6	
T87301/T87302	Acetone Tanks	Acetone		3.8
T665	Acetone Tank	Acetone	0.4	1.0
V8342	Vent Stream Collection Vessel	VOC	<0.1	0.2
P87107	Diesel Engine (Fire Water Pump)	VOC	0.6	<0.1
		NO_x	7.4	0.4
		CO	1.6	<0.1
		PM_{10}	0.5	<0.1
		SO_2	0.5	<0.1
P87921	Diesel Engine (Demin. Water Pump)	VOC	0.2	<0.1
		NO_x	1.9	<0.1
		CO	0.4	<0.1
		PM_{10}	0.1	<0.1
		SO_2	0.1	<0.1

(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 30 Texas Administrative Code Section 101.1

NO_x - total oxides of nitrogen

CO - carbon monoxide

PM_{10} - 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.

SO_2 - sulfur dioxide

Caustic - sodium phenate

H_2SO_4 - sulfuric acid

(4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

(5) The emission rates listed for the HIPA Flare include only the Phenol 3 contributions to the flare. The HIPA flare has additional grandfathered emissions of 1.2 lb/hr (5.3 TPY) of propylene and 1.8 lb/hr (7.9 TPY) of propane that are not included in the allowables on this table.

* 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

Dated_____