EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 19123

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 A	ir Contamina	nt <u>Emissi</u>	on Rates
Point No. (1)	Name (2)	Name (3)1b	/hr	TPY
EYCRKR1417	Cracker Nos. 14 through	h 17	PM/PM ₁₀	3.8
	Combustion Emissions with Cracker Nos. 1		32.6 SO ₂	134 0.30
	1.24	em ough 7	302	0.50
	as backups	NO _x VOC	40.4 2.72	166 11.2
		VUC	2.72	11.2
EYCRK1417D	Cracker Nos. 14 through 0.08	h 17	PM	1.4
	Decoking Emissions	. PM ₁₀	0.8	0.04
	with Cracker Nos. 1 4.4 as backups	through 7	CO	80.2
EY001CT	East Cooling Tower	VOC	42.8	54.79
EY001LR	Railcar Loading	Ethylene	25.18	3.15
EY002LR	Truck Loading/Unloading	g Ethylene	25.78	5.39
EY003LR	Truck Loading	VOC	0.17	0.34
EY005FL	Olefins Flare	CO SO ₂ NO _x VOC	5.19 0.01 0.72 10.3	6.76 0.02 0.93 12.7
EY006CT	South Cooling Tower	VOC	42.8	55.66

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Emission *	Source A	ir Contaminar	nt <u>Emiss</u>	sion Rates
Point No. (1)	Name (2)	Name (3)1b,	/hr	TPY
EY018ST	Cracker No. 13 Combustion Emissions	PM/PM ₁₀ S CO SO ₂ NO _x VOC	1.57 17.1 0.13 31.4 1.13	6.87 75.1 0.55 137 4.94
EY021ST	Heater D1.602	$\begin{array}{c} PM/PM_{10} \\ CO \\ SO_2 \\ NO_x \\ VOC \end{array}$	0.04 0.42 <0.01 0.50 0.03	0.17 1.83 0.013 2.19 0.12
EY023ST	Cracker Nos. 8 through 8.02	12	PM/PM_{10}	1.95
	Combustion Emissions	S CO SO ₂ NO _x VOC	21.32 0.15 33.8 1.4	87.9 0.63 139 5.8
EY029FE	Olefins Fugitives (4)	VOC	2.13	9.32
EY030CT	North Cooling Tower	VOC	45.0	59.34
EY041ST	Cracker Nos. 8 through 0.57	12	РМ	4.54
	Decoking Emissions	PM ₁₀ CO	2.48 33.4	0.32 4.36
EY051TK	Flush Oil Tank	VOC	0.71	0.51
EY052TK	Methanol Tank	Methanol	3.20	0.061
EY055ST	Cracker No. 13 Decoke Decoking Emissions	PM PM ₁₀ CO	2.8 1.53 20.6	0.08 0.04 0.57
EY057ST	Heater D1.601	PM/PM ₁₀	0.04	0.17

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES AIR CONTAMINANTS DATA

Emission *	Source	Air Contaminant	r Contaminant <u>Emission F</u>	
Point No. (1)	Name (2)	Name (3)1b/hr		TPY
		CO SO₂ NO _× VOC	0.42 <0.01 0.5 0.03	1.83 0.013 2.2 0.12
EY101AN	Analyzer Vent	VOC	0.14	0.6
EY300AN	Analyzer Vent	VOC	0.21	0.93
EY400AN	Analyzer Vent	VOC	0.12	0.51
EY500AN	Analyzer Vent	VOC	0.05	0.23
EY700AN	Analyzer Vent	VOC	0.05	0.20
EY701AN	Analyzer Vent	VOC	0.04	0.16
EY900AN	Analyzer Vent	VOC	0.12	0.51
EY901FE	Olefins Fugitives (4) VOC Chlorine	13.24 0.06	57.92 0.26
EYMSAN	Analyzer Vent	VOC	<0.01	<0.01
EYNEWAN	Analyzer Vent	VOC	<0.01	<0.01
LL11138VN	Seal Vessel	Mineral Oil	<0.01	<0.01
LL11210VN	Thermal Stabilizer S	tg Hexane	8.09	0.08
LL11302VN	Silo	PM/PM ₁₀	0.46	0.20
LL11412VN	Dust Collector	PM/PM ₁₀ VOC	0.55 15.90	1.10 58.00

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES AIR CONTAMINANTS DATA

Emission	Source	Air Contaminant	<u>Emiss</u>	ion Rates
* Point No. (1)	Name (2)	Name (3)1b/hr		TPY
LL11502VN	Dust Collector	PM/PM ₁₀	1.11	2.01
LL11509VN	Unloading Receiver	PM/PM ₁₀	0.16	0.09
LL11702VN	Drain Vessel	Hexane	1.22	0.08
LL11801CT	LLDPE Cooling Tower	VOC	0.84	1.06
LL11801ST	Heater	PM/PM_{10} CO SO_2 NO_x VOC	0.27 2.9 0.02 2.12 0.2	1.16 12.7 0.09 9.3 0.84
LL11801TK	Storage Tank	Hexane	0.42	0.73
LL11801VN	Storage Tank	Multitherm	<0.01	<0.01
LL11802FL	LLDPE Plant Flare	CO SO ₂ NO _x VOC HC1	13.86 <0.01 1.62 24.0 10.41	23.45 0.025 11.62 78.56 3.77
LL11802TK	Storage Tank	Hexane	0.38	0.69
LL11802VN	Storage Tank	Multitherm	<0.01	<0.01
LL11803TK	Storage Tank	VOC	5.97	0.24
LL11804TK	Storage Tank	Octene	0.16	0.12
LL11806VN	Cleaning Tank	VOC	<0.01	<0.01
LL11807TK	Storage Tank	VOC	0.23	0.36

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission *	Source	Air	Contaminant	<u>Emission</u>	Rates
Point No. (1)	Name (2)	N	lame (3)1b/hr		TPY
LL11810TK	Storage Tank	٧	/OC	0.18	0.33
LL1001FE	LLDPE Process Fugitiv	ves ((4)	VOC	1.44
	0	Α	Ammonia	0.02	0.11
LLSUMPVN	Wastewater Sump	٧	/OC	0.01	0.05
LLWLOADVN	Heavy Ends Loading	٧	/OC	1.00	0.08
ST101FL	Styrene Plant Flare (S N V	CO 50 ₂ 10 _x /OC Sulfur Compou	1.95 <0.01 0.27 5.49 nds<0.01	1.87 0.03 0.26 2.70 <0.01
UP001LR	Railcar Loading/Unloa	ading	J	VOC	2.04
UP002LR	Truck Loading/Unloadi	ing V	/OC	1.02	2.69
UP010FE	Loading/Storage Fugit 2.07	tives	5 (4)	VOC	0.47
UP011FE	Flare Fugitives (4)	E	Ethylene	0.014	0.061
UP030LR	Aromatic Conc. Loadir		/OC Sulfur Compou	8.63 nds<0.01	1.59 <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.

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Dated____

Emission *	Source	Air Contaminant	<u>Emission Rates</u>
Point No.	(1) Name (2)	Name (3)1b/hr	TPY
$\begin{array}{c} \text{Admin} \\ \text{NO}_x \\ \text{SO}_2 \\ \text{PM} \\ \text{PM}_{10} . \\ \text{PM}_{10} \end{array}$	VOC - volatile orgaistrative Code Section 103 - total oxides of nitroge - sulfur dioxide - particulate matter, - particulate matter Where PM is not listed,	anic compounds as defir 1.1 en suspended in the atmosp equal to or less than	ned in 30 Texas
is emitte	be assumed that no pared. - carbon monoxide	rticulate matter greater	than 10 microns
<pre>(4) consi (5) facil</pre>	 hydrogen chloride Fugitive emissions are dered as a maximum allowal Flare emissions shown a ities only. The flare t No. 5611. 	ole emission rate. re those related to Po	ermit No. 19123
	on rates are based on ng maximum operating sche		limited by the
8,760 Hr	Hrs/day rs/year	Days/week	Weeks/year or