

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 5611

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
ST201ST	Hot Oil Heater	NO _x	11.00	47.00
		PM	1.10	4.60
		CO	2.70	11.74
		SO ₂	1.07	4.69
		VOC	0.20	0.94
ST301ST	Regeneration Heater	NO _x	0.09	0.40
		PM	0.01	0.05
		CO	0.02	0.08
		SO ₂	0.01	0.05
		VOC	<0.01	0.03
ST403ST	Superheater	NO _x	22.75	99.65
		PM	2.43	10.62
		CO	1.67	7.31
		SO ₂	0.14	0.60
		VOC	2.38	10.44
ST202ST	"A" Feed Gas Compressor	NO _x	1.45	6.35
		CO	2.18	9.55
		SO ₂	0.05	0.22
		VOC	0.36	1.58
ST203ST	"B" Feed Gas Compressor	NO _x	1.45	6.35
		CO	2.18	9.55
		SO ₂	0.05	0.22
		VOC	0.36	1.58

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY
ST204ST	"C" Feed Gas Compressor	NO _x	1.45	6.35
		CO	2.18	9.55
		SO ₂	0.05	0.22
		VOC	0.36	1.58
ST101FL	Styrene Flare	NO _x	3.40	3.67
		CO	24.50	26.50
		SO ₂	0.70	0.57
		Benzene	1.79	0.33
		VOC (total)	39.46	7.17
		H ₂ S	<0.01	<0.01
ST501FL	Oxygen-Rich Flare	NO _x	0.09	0.38
		CO	0.45	1.94
		SO ₂	0.02	0.06
		VOC	0.62	2.71
ST502FL	Hydrogen-Rich Flare	NO _x	0.33	0.10
		CO	1.67	0.49
		SO ₂	<0.01	0.01
		VOC	0.45	0.07
ST601FL	Loading Flare	NO _x	0.23	0.08
		CO	1.95	0.70
		SO ₂	0.05	<0.01
		VOC	1.30	1.18
ST601LR	Railcar Loading Rack	VOC	2.50	0.46
ST602LR	Truck Loading Rack	VOC	5.90	0.03
ST604LR	Truck Loading Rack	VOC	1.92	0.07
ST605LR	Railcar Loading Rack	VOC	6.10	0.02
FST301FE	300 Area Fugitives (4)	Benzene	0.29	1.27
		VOC (total)	4.83	21.10

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		BF ₃	0.12	0.52
FST401FE	400 Area Fugitives (4)	VOC	3.53	15.51
FST501FE	500 Area Fugitives (4)	VOC	1.71	7.53
FST601FE	Loading Fugitives (4)	Benzene	0.03	0.13
		VOC (total)	0.13	0.54
FST701FE	Storage Fugitives (4)	Benzene	0.07	0.30
		VOC (total)	0.90	3.94
FST902FE	Styrene Cooling Tower	VOC	0.76	3.31
ST001WT	Process Drains	VOC	0.27	1.19
ST502ST	TBC System	VOC	1.39	0.02
ST524-B	Tank 524-B	VOC	0.01	0.04
ST710VN	Tank V-10 - CAS	VOC	0.07	<0.01
ST711VN	Tank V-11 - CAS	VOC	0.12	<0.01
ST735TK	Tank V-35	VOC	1.37	1.96
ST737TK	Tank V-37	VOC	14.63	0.98
ST742TK	Tank V-42	VOC	1.91	1.96
EY005FL	Flare (5)			

(1) Emission point identification - either specific equipment designation or emission point number

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from plot plan.

(2) Specific point source name. For fugitive sources use area name or fugitive source name.

(3) NO_x - total oxides of nitrogen

PM - particulate matter, suspended in the atmosphere, including PM₁₀

PM₁₀ - particulate matter 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.

CO - carbon monoxide

SO₂ - sulfur dioxide

VOC - volatile organic compounds as defined in 30 Texas Administrative Code Section 101.1

H₂S - hydrogen sulfide

BF₃ - boron trifluoride

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

(5) This Olefins Plant Flare is used as backup for Flare ST101FL.

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

Hrs/day____Days/week____Weeks/year____ or Hrs/year 8,760

Dated_____