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.

Emission	Source	Air Contaminant	<u>Emission</u>	Rates *
Point No. (1)	Name (2)	Name (3)	1b/hr	TPY
CT201CT	Hot Oil Hooton	NO.	11 00	47.00
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
CT402CT	Companies	NO	22.75	00 65
ST403ST	Superheater	NO _X	22.75	99.65
		PM CO	2.43	10.62
		CO	1.67	7.31
		SO ₂	0.14	0.60
		VOC	2.38	10.44
ST202ST	"A" Feed Gas Compres	sor 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 Compress	sor NO _X	1.45	6.35
3120331	B reed das compres	CO	2.18	9.55
		SO ₂	0.05	0.22
		VOC	0.36	1.58
		VUC	0.30	1.00
ST204ST	"C" Feed Gas Compres	sor NO _X	1.45	6.35
		CO	2.18	9.55

Emission *	Source	Air Contaminant	<u>Emissio</u>	n Rates
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
ST101FL	Styrene Flare	SO ₂ VOC NO _X CO SO ₂ Benzene VOC (total) H ₂ S	0.05 0.36 3.40 24.50 0.70 1.79 39.46 <0.01	0.22 1.58 3.67 26.50 0.57 0.33 7.17 <0.01
ST501FL	Oxygen-Rich Flare	NO _X CO SO ₂ VOC	0.09 0.45 0.02 0.62	0.38 1.94 0.06 2.71
ST502FL	Hydrogen-Rich Flare	NO _X CO SO ₂ VOC	0.33 1.67 <0.01 0.45	0.10 0.49 0.01 0.07
ST601FL	Loading Flare	NO _x CO SO ₂ VOC	0.23 1.95 0.05 1.30	0.08 0.70 <0.01 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 VOC (total)	0.29 4.83	1.27 21.10

Emission *	Source	Air Contaminant <u>Emission</u>		<u>Rates</u>	
Point No. (1)	Name (2)	Name (3)	1b/hr	TPY	
		BF₃	0.12	0.52	

Emission	Source A	Air Contaminant		Emission Rates	
Point No. (1)	Name (2)	Name (3)	1b/hr	TPY	
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 VOC (total)	0.03 0.13	0.13 0.54	
FST701FE	Storage Fugitives (4)	Benzene VOC (total)	0.07 0.90	0.30 3.94	
FST902FE	Styrene Cooling Tower 3.31	(6)	VOC	0.76	
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)				

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EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Emission	Source	Air Contaminant	<u>Emission Rates</u>	
Point No. (1)	Name (2)	Name (3)	lb/hr TPY	

- (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) NO_X total oxides of nitrogen
 - PM particulate matter
 - CO carbon monoxide
 - SO₂ sulfur dioxide
 - VOC volatile organic compounds as defined in General Rule 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.
- (6) The emission rate is an estimate only and should not be considered as a maximum allowable emission rate. By August 31, 1999, the permit holder shall provide the TNRCC with cooling tower data, shall reevaluate the basis for the cooling tower emissions, and shall apply for a permit alteration or amendment as appropriate to reflect the enforceable cooling tower baseline emissions.

	on rates are bas aximum operating		ilities are limited by the	
Hrs/day	Days/week	Weeks/year	or Hrs/year <u>8,760</u>	
			Dated	l