EMISSION SOURCES, EMISSIONS CAPS AND INDIVIDUAL EMISSION LIMITATIONS

Flexible Permit Numbers 6308 and PSDTX137M2

This table lists the maximum allowable emission caps 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

Facility/Emission Point Categories	Air Contaminant Name (3)	<u>Emi</u> lb/hr	ssion Rates* TPY **				
Routine Operating Emission Caps							
Fired Units	NO _x CO SO ₂	419.50 286.83 255.18	881.02 476.03 156.07				
Fired Units, Cooling Towers (6)	PM	48.55	183.11				
Fired Units, Cooling Towers, Tanks, Fugitives (4), Wastewater, Miscellaneous	VOC	370.92	469.32				
Cooling Towers (6)	Cl_2	0.01	0.01				
Selected Tanks Emission Caps (7)							
Tanks E11TKS21, E11TKS23, E11TKR17, and E11TKR18	Toluene	1.34	3.01				
Tanks E11TKS32, E11TKR9, and E11TKS21	Xylene	6.55	7.48				
Tanks E11TKR5, E11TKR7, and E12TK145	Benzene	1.18	1.99				
Maintenance, Startup, and Shutdown (MSS) Emission Caps (5)							
Planned MSS	NO _x CO SO ₂ PM VOC H ₂ S HCI	405.4 390.2 1,396 17.43 1,270 6.23 0.58	15.64 19.35 30.81 0.83 25.63 0.28 0.03				

EMISSION SOURCES, EMISSIONS CAPS, AND INDIVIDUAL EMISSION LIMITATIONS AIR CONTAMINANTS DATA

Emission	Source	Air Contaminant Emission Rates *		
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
<u>Individual Emission</u>	n Rate Limits			
FL-97/FL-28/ FL-27	Main, West, and East Flares	VOC NO_x CO SO_2 H_2S	38.19 4.06 20.92 7.30 0.08	99.19 11.50 59.22 31.27 0.33
C-108	BTX Cooling Tower	PM Cl ₂	0.17 0.01	0.74 0.01
C-109	Crudell Cooling Tower	PM Cl ₂	0.24 0.01	1.05 0.01
C-110	Hydrobon Cooling Tower	PM Cl ₂	0.29 0.01	1.26 0.01
E29H417	SRU No. 1 Heater	VOC NO_x CO PM SO_2	0.02 0.58 0.31 0.03 0.12	0.09 2.53 1.36 0.12 0.32
F-SRU1	SRU No. 1 Fugitives (4)	VOC CO H₂S	0.11 0.03 0.07	0.47 0.15 0.31
FL-87	SRU No. 1 Flare	VOC NO _x CO SO ₂	0.02 0.09 0.77 0.02	0.04 0.20 1.69 0.03
S-84, S-85	SRU No. 1 and No. 2 Tail Gas Incinerator Stacks (TGI)	VOC NO_x CO PM SO_2	0.13 2.34 14.40 0.18 39.04	0.56 10.30 62.90 0.78 171.01

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Emission	Source	Air Contaminant <u>Emission Rates *</u>		
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
F-SRU2	SRU No. 2 Fugitives	H₂S VOC CO H₂S	0.42 0.11 0.03 0.07	1.82 0.47 0.15 0.29
FL-88	SRU No. 2 Acid Gas Flare	VOC NO_x CO SO_2	0.02 0.09 0.77 0.02	0.04 0.20 1.69 0.03
PROPFRZTST	Propane Freeze Test	VOC	5.10	3.72
E13P45	Firewater Diesel Engine E13P45	$\begin{array}{c} VOC \\ NO_{x} \\ CO \\ PM_{10} \\ SO_{2} \end{array}$	0.12 6.22 1.08 0.44 0.96	0.05 2.73 0.47 0.19 0.42
E13P45	Firewater Diesel Engine E13P46	VOC NO_x CO PM_{10} SO_2	0.12 6.22 1.08 0.44 0.96	0.05 2.73 0.47 0.19 0.42
E13P45	Firewater Diesel Engine E13P47	$\begin{array}{c} VOC \\ NO_{x} \\ CO \\ PM_{10} \\ SO_{2} \end{array}$	0.12 6.22 1.08 0.44 0.96	0.05 2.73 0.47 0.19 0.42
E13TK39	Diesel Tank for E13P45	VOC	0.01	0.03
E13TK40	Diesel Tank for E13P46	VOC	0.01	0.03
E13TK41	Diesel Tank for E13P47	VOC	0.01	0.03

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(1)	Emission	point	identification	- eithe	r specific	equipment	designation	or	emission	point	number
	from a plo	ot plan									

- (2) Specific point source names. For fugitive sources use area name or fugitive source name.
- (3) NO_x total oxides of nitrogen
 - CO carbon monoxide
 - SO₂ sulfur dioxide
 - 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 PM greater than 10 microns is emitted.
 - VOC volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
 - C₁₂ chlorine
 - H₂S hydrogen sulfide
 - HCl hydrogen chloride
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) MSS activities and emission points are identified in Attachment C.
- (6) Only the FCCU and sulfolane cooling towers are included in the PM and Cl_2 emission caps.
- (7) These speciated emission caps apply only to the tanks listed. These compounds may be emitted from other facilities as respresented in the flexible permit application and subsequent permit amendments.

*	Emission rates are based on and the facilities are limited by the following maximum operating schedule:
	Hrs/dayDays/weekWeeks/year or <u>8,760</u> Hrs/year
**	Compliance with annual emission limits is based on a rolling 12-calendar-month period.

Dated July 27, 2009