### EMISSION SOURCES - EMISSION CAPS AND INDIVIDUAL EMISSIONS LIMITATIONS

### Flexible Permit Numbers 6308 and PSDTX137M2

### **EMISSION CAP TABLE**

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.

See Attachment 1 for list of Emission Point Numbers and Source Descriptions for emission points included in each Source Category.

### NO<sub>x</sub> EMISSION CAP

Source Categories	Year	lb/hr	TPY **
Fired Units	2009	419.50	881.02
	CO EMISSION CAP		
Source Categories	Year	lb/hr	TPY **
Fired Units	2009	286.83	476.03
	SO <sub>2</sub> EMISSION CAP		
Source Categories	Year	lb/hr	TPY **
Fired Units	2009	255.18	156.07
	PM EMISSION CAP		
Source Categories	Year	lb/hr	TPY **
Fired Units, Cooling Towers (5)	2009	48.55	183.11

# EMISSION SOURCES - EMISSION CAPS AND INDIVIDUAL EMISSIONS LIMITATIONS VOC EMISSION CAP

Source Categories	Year	lb/hr	TPY **									
Fired Units, Cooling Towers, Tanks, Fugitives, Wastewater, Miscellaneous (4)	2009	370.92	469.32									
Cl <sub>2</sub> El	MISSION CAP											
Source Categories	Year	lb/hr	TPY **									
Cooling Towers (5)	2009	0.01	0.01									
SPECIATED	VOC EMISSION CAPS											
Toluene EMISSION CAP												
Source Categories	Year	lb/hr	TPY **									
Tanks E11TKS21, E11TKS23, E11TKR17, and E11TKR18	2009	1.34	3.01									
Xylene	EMISSION CAP											
Source Categories	Year	lb/hr	TPY **									
Tanks E11TKS21, E11TKS32, and E11TKR9	2009	6.55	7.48									
Be	nzene CAP											
Source Categories	Year	lb/hr	TPY **									
Tanks E11TKR5, E11TKR7, and E11TKR145	2009	1.18	1.99									

## EMISSION SOURCES - EMISSION CAPS AND INDIVIDUAL EMISSIONS LIMITATIONS

EPN	Source Name	Air Contaminant (3)	lb/hr	TPY **
FL-97/FL-28/ FL-27	Main Flare, West Flare and East Flare	$VOC$ $NO_x$ $CO$ $SO_2$ $H_2S$	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 <sub>2</sub>	0.17 0.01	0.74 0.01
C-109	CrudeII Cooling Tower	PM Cl <sub>2</sub>	0.24 0.01	1.05 0.01
C-110	Hydrobon Cooling Tower	PM Cl <sub>2</sub>	0.29 0.01	1.26 0.01
SULFUR REC	OVERY UNIT NO. 1			
E29H417	SRU No. 1 Heater	VOC NO <sub>x</sub> CO PM SO <sub>2</sub>	0.02 0.58 0.31 0.03 0.12	0.09 2.53 1.38 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 <sub>x</sub> CO SO <sub>2</sub>	0.02 0.09 0.77 0.02	0.04 0.20 1.69 0.03

EPN	Source Name	Air Contaminant (3)	lb/hr	TDV **
	Source name	All Collianniani (3)	ID/III	IFI

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## EMISSION SOURCES - EMISSION CAPS AND INDIVIDUAL EMISSIONS LIMITATIONS

S-84, S-85	SRU No. 1 and No. 2 Tail Gas Incinerator Stacks (TGI)	VOC NO <sub>x</sub> CO PM SO <sub>2</sub> H <sub>2</sub> S	0.13 2.34 14.40 0.18 39.04 0.42	0.56 10.30 62.90 0.78 171.01 1.82
SULFUR RECC	VERY UNIT NO. 2			
F-SRU2	SRU No. 2 Fugitives (4)	VOC CO H <sub>2</sub> S	0.11 0.03 0.07	0.47 0.15 0.29
FL-88	SRU No. 2 Acid Gas Flare	VOC NO <sub>x</sub> CO SO <sub>2</sub>	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	$VOC$ $NO_x$ $CO$ $PM_{10}$ $SO_2$	0.12 6.22 1.08 0.44 0.96	0.05 2.73 0.47 0.19 0.42
E13P46	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
E13P47	Firewater Diesel Engine E13P47	$VOC$ $NO_x$ $CO$ $PM_{10}$ $SO_2$	0.12 6.22 1.08 0.44 0.96	0.05 2.73 0.47 0.19 0.42

### EMISSION SOURCES - EMISSION CAPS AND INDIVIDUAL EMISSIONS LIMITATIONS

EPN	Source Name	Air Contaminant (3)	lb/hr	TPY **								
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								
PLANNED MAINTENANCE, START-UP, AND SHUTDOWN EMISSIONS												
FL-97/FL-28/ FL-27	Main Flare, West Flare (6) and East Flare	$VOC$ $NO_x$ $CO$ $SO_2$ $H_2S$	561.58 46.03 236.94 589.76 3.43	1.24 0.23 1.18 4.75 0.09								
BTX REGEN	BTX Regenerator Vent (6)	NO <sub>x</sub> CO SO <sub>2</sub> HCI	45.50 13.65 0.61 0.58	2.73 0.82 0.06 0.03								
BTXRGENFU	G BTX Regenerator Fugitives (6) (	4) VOC	0.01	0.03								

- (1) Emission point identification either specific equipment designation or emission point number from a plot plan per Attachment 1.
- (2) Specific point source names. For fugitive sources use area name or fugitive source name.
- (3) VOC volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
  - NO<sub>x</sub> total oxides of nitrogen
  - SO<sub>2</sub> sulfur dioxide
  - CO carbon monoxide
  - PM particulate matter, suspended in the atmosphere, including PM<sub>10</sub>.
  - PM<sub>10</sub> 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 in emitted.
  - H<sub>2</sub>S hydrogen sulfide
  - Cl<sub>2</sub> chlorine
  - HCl Hydrogen chloride
- (4) Emission rate is an estimate and compliance is demonstrated by meeting the requirements of the applicable special conditions and permit application representations.
- (5) Only the FCCU and sulfolane cooling towers are included in the PM and Cl<sub>2</sub> emission caps.
- (6) Planned MSS activities and emissions emit from this EPN.

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* sched		rates are bas	ed on a	and the facilities	are lim	ited by the followir	ng maxi	mum operat	ing
	24	Hrs/day	7	_ Days/week _	52	Weeks/year or		Hrs/yea	r
**	Compliand	ce with annua	l emissi	on limits is on a	12-moi	nth rolling average.			
							Dated	lune 15 20	) ) )