#### Permit Number 5252

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		Emission Rates *	
Point No. (1)	Name (2)		Name (3)	lb/hr	TPY**
102	Clay Treater Decon.		$NO_x$	0.39	1.71
	Heater HS-102		CO	0.87	0.54
	(3 MMBtu/hr)		VOC	0.04	0.16
		$SO_2$	0.06	0.24	
			PM <sub>10</sub>	0.17	0.72
103	Benzene Recovery Column Reboiler HS-103	n	NO <sub>x</sub>	10.95	47.98
			CO	23.30	1.03
			VOC	0.05	0.20
	S	$SO_2$	0.17	0.26	
		_	PM <sub>10</sub>	0.39	1.70
104	EB Recovery Column Reboiler HS-104		NO <sub>x</sub>	7.22	25.89
			CO	40.84	34.51
			VOC	0.72	3.15
			$SO_2$	0.28	0.47
			PM <sub>10</sub>	0.63	2.75
201/219	Superheaters HS-201and 219	NO <sub>x</sub>	42.01	166.31	
			CO	84.08	48.57
			VOC	1.28	5.62
			$SO_2$	1.03	4.51
			PM <sub>10</sub>	0.06	0.25
213	Tank MS-213		VOC	0.01	0.01
220	Superheater HS-220 (170 MMBtu/hr)		NO <sub>x</sub>	2.16	9.47
			CO	6.11	26.78
	•	VOC	0.54	2.34	
		$SO_2$	0.44	1.92	

Emission	Source	Air	<sup>-</sup> Contaminant	Emission Rates *	
Point No. (1)	Name (2)		Name (3)	lb/hr	TPY**
		PM <sub>10</sub> NH <sub>3</sub>	0.58 1.01	2.56 4.44	
301-A	Boiler HB-301-A	SO <sub>2</sub>	NO <sub>x</sub> CO VOC 0.62 PM <sub>10</sub>	34.76 59.09 0.22 1.16 0.74	143.00 4.60 0.91 3.04
301-B	Boiler HB-301-B	SO <sub>2</sub>	NO <sub>x</sub> CO VOC 0.69 PM <sub>10</sub>	40.20 59.09 1.22 1.16 0.38	169.53 4.60 5.18 1.56
301-S	Boiler HB-301-S	SO <sub>2</sub>	NO <sub>x</sub> CO VOC 0.58 PM <sub>10</sub>	53.14 61.46 1.26 1.16 0.45	205.00 4.60 4.86 1.75
302	Tank MT-302		VOC	0.01	0.01
307	Tank MT-307		VOC	0.01	0.01
308	Tank MT-308		VOC	0.01	0.01
331	Wastewater Clarifier GV-3	31	VOC	0.01	0.01
601	TDA Reactor Feed Heater HS-601		$NO_x$ $CO$ $VOC$ $SO_2$ $PM_{10}$	1.30 3.60 0.02 0.02 0.19	5.68 0.04 0.09 0.03 0.83
812	Stormwater Pump		NO <sub>x</sub> CO VOC SO <sub>2</sub> PM <sub>10</sub>	0.74 0.16 0.06 0.05 0.05	2.23 0.48 0.18 0.15 0.16

Emission	Source	Air Contaminant		Emission Rates *	
Point No. (1)	Name (2)		Name (3)	lb/hr	TPY**
1201	Poilor LID 1201 D		NO	17.00	66.10
1301	Boiler HB-1301-P		NO <sub>x</sub> CO	17.83 54.05	47.22
			VOC	1.39	5.11
			SO <sub>2</sub>	0.25	0.52
			PM <sub>10</sub>	0.51	1.88
CT-1	Cooling Tower-1		VOC (4)	2.52	6.03
		$PM_{10}$	1.05	4.62	
CT-2	Cooling Tower-2		PM <sub>10</sub>	0.34	1.48
CTOTANK and	Catalytic Thermal		$NO_x$	0.81	1.48
CTOVENT	Oxidizers		CO	6.95	12.70
			VOC	16.40	2.20
			SO <sub>2</sub> PM <sub>10</sub>	0.01 0.09	0.01 0.17
			L IAITO	0.09	0.17
Diesel Tanks	Diesel Tanks		VOC	0.11	0.03
FL	Flare		NO <sub>x</sub>	0.24	1.06
			CO	1.75	7.68
		SO <sub>2</sub>	VOC 0.01	0.60 0.01	2.63
		3O <sub>2</sub>		0.01	
FUG-BZ	Benzene Fugitives (4)		VOC	1.17	5.14
FUG-HRVOC	Ethylene Fugitives (4)	Ethyle	VOC (5)	0.22 0.21	0.95 0.91
FUG-NH3	Ammonia Fugitives (4)		NH <sub>3</sub>	0.03	0.13
FUG-VOC	VOC Fugitives (4)		VOC	2.10	9.19
GY308	GY308 Condensate Deae	rator	VOC	0.70	0.33
GY-347	Precoat		PM <sub>10</sub>	0.01	0.01

Emission	Source	Air Contaminant	Emission R	≀ates *
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY**
LR-1	Loading Rack  MAINTENANCE,	VOC START-UP, AND SHUTDOW	4.32 'N EMISSIONS	0.01 S
115	Emergency Generator	$NO_x$ $CO$ $VOC$ $SO_2$ $PM_{10}$	12.09 2.61 0.96 0.80 0.86	0.67 0.15 0.06 0.04 0.06
220	Superheater HS-220 Start-up and Shutdown	NO <sub>x</sub> CO VOC 0.54 SO <sub>2</sub> 0.44 PM <sub>10</sub> 0.58	10.20 42.79 (6) (6) (6)	(6) (6)
802A, 802B, 802S, and 805	Firewater Pumps	$NO_x$ $CO$ $VOC$ $SO_2$ $PM_{10}$	42.16 9.08 3.36 2.80 3.00	3.37 0.73 0.27 0.22 0.24
FL	Flare MSS	NO <sub>x</sub> CO VOC (5) Benzene Ethylene	3.94 28.45 83.00 78.85 70.00	0.04 0.26 0.73 0.29 0.07
REGEN	EB Regenerator	СО	5.00	0.20
	HAZARDOUS AIR POLLUTANTS (HAP) EMISSION LIMITATIONS			
		Individual HAP		9.90

# AIR CONTAMINANTS DATA

Dated October 11, 2007

Emission	Source	Air Contaminant	Emission Rates *				
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY**			
		All HAPs Combined		24.90			
• •	(1) Emission point identification - either specific equipment designation or emission point number (EPN) from plot plan.						
(2) Specific point (3) NO <sub>x</sub> - tota		ources use area name or fugitive	e source nam	ne.			
	VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1 SO <sub>2</sub> - sulfur dioxide						
•	ticulate matter equal to or les Imonia	ss than 10 microns in diameter.					
(4) Emission rate is an estimate and compliance is demonstrated by meeting the requirements of the applicable special conditions and permit application representations.							
<ul> <li>(5) The allowables for VOC includes the allowables for the speciated organic compounds.</li> <li>(6) Annual maintenance emissions from EPN 220 are included in routine annual allowables for EPN 220.</li> </ul>							
* Emission rate schedule:	es are based on and the fac	cilities are limited by the following	ng maximum	operating			
hrs/da	ay days/week	_ weeks/yr or <u>8,760</u> hrs/year					
** Compliance v	with annual emission limits is	based on a rolling 12-month peri	od.				