Permit No. 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	<u>Emission</u>	Rates
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
201/219	Superheater HS-201/219	NO _x SO ₂ PM CO VOC	37.97 0.19 0.06 11.09 1.28	166.31 0.84 0.25 48.56 5.62
1301	Boiler HB-1301-P	NO _x SO ₂ PM CO VOC	15.10 0.12 0.43 10.78 1.16	66.10 0.52 1.89 47.21 5.10
301-A	Boiler HB-301-A	NO _x SO₂ PM CO VOC	32.65 0.12 0.69 0.08 0.21	143.00 0.54 3.04 0.35 0.91
301-B	Boiler HB-301-B	NOx SO₂ PM CO VOC	38.70 0.12 0.36 0.08 1.18	169.70 0.54 1.56 0.36 5.18
301-S	Boiler HB-301-S	NO_{x} SO_{2} PM	49.90 0.12 0.40	205.00 0.54 1.75

Emission *	Source	Air Contaminant	Emission	n Rates
<u>^</u> Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
		CO VOC	1.06 1.11	4.60 4.85
1301	Alternate Boiler HB-1301-P (5)	NO _x SO ₂ PM CO VOC	17.83 0.14 0.51 11.89 1.38	- - - -
301-A	Alternate Boiler HB-301-A (5)	NO_x SO_2 PM CO VOC	34.76 0.13 0.74 0.09 0.22	- - - -
301-B	Alternate Boiler HB-301-B (5)	NO_x SO_2 PM CO VOC	40.20 0.13 0.38 0.08 1.22	- - - -
301-S	Alternate Boiler HB-301-S (5)	NO _x SO ₂ PM CO VOC	53.14 0.14 0.45 1.20 1.26	- - - -
101	Feed Preheater Heater HS-101	NO _x SO ₂ PM CO VOC	7.80 0.07 0.39 0.17 0.10	34.17 0.31 1.71 0.75 0.44
102	Clay Treater Decon.	NO_x	2.31	10.14

${\tt EMISSION} \ \ {\tt SOURCES} \ \ {\tt -} \ \ {\tt MAXIMUM} \ \ {\tt ALLOWABLE} \ \ {\tt EMISSION} \ \ {\tt RATES}$

Emission *	Source	Air Contaminant	<u>Emission</u>	Rates
Point No. (1)	Name (2)	Name (3)	lb/hr	<u>TPY</u>
	Heater HS-102	SO ₂ PM CO VOC	0.02 0.39 1.74 0.08	0.08 1.71 7.63 0.35
601	TDA Reactor Feed Heater HS-601	NO_x SO_2 PM CO VOC	1.30 0.01 0.19 0.01 0.02	5.68 0.03 0.83 0.04 0.09
109	EB Recovery Col. Reboiler HS-109	NO _x SO ₂ PM CO VOC	10.95 0.06 0.39 0.24 0.05	47.95 0.26 1.71 1.04 0.22
108	Benzene Rec. Col. Reboiler HS-108	NO _x SO ₂ PM CO VOC	17.14 0.11 0.36 6.96 0.72	75.07 0.47 1.58 30.48 3.15
308	Flux Oil Tank MT-30	8 VOC	<0.01	<0.01
FUG-BZ	Benzene Fugitives (4) Styrene Ethylbenzene Toluene Benzene	0.07 0.11 0.11 0.43	0.31 0.47 0.47 1.87
FUG-VOC	VOC Fugitives (4)	Styrene Ethylbenzene Toluene Benzene	0.69 0.59 0.59 0.10	3.01 2.58 2.58 0.43

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EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Emission *	Source	Air Contaminant	<u>Emissio</u>	n Rates
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
LR-1	Loading Rack (4)	Ethylbenzene	4.32	<0.01
CT-1	Cooling Tower-1 (4)	VOC	2.52	6.03
CT-2	Cooling Tower-2 (4)	VOC	<0.01	<0.01

Emission *	Source	Air Contaminant	<u>Emission</u>	Rates
Point No. (1)	Name (2)	Name (3)	1b/hr	TPY
FL	Flare	NO _x SO₂ CO VOC, other	5.53 0.07 39.95 0.06	0.31 <0.01 2.25 1.10
	N ₂ Purge	Benzene	7.35	0.09
GY-347	Precoat	РМ	<0.01	<0.01
115	Emergency Generator	NO_{x} SO_{2} PM CO VOC	12.09 0.80 0.86 2.61 0.96	0.16 0.01 0.01 0.03 0.01
802A	Firewater Pump	NO_x SO_2 PM CO VOC	11.78 0.78 0.84 2.54 0.94	0.15 0.01 0.01 0.03 0.01
213	Ethylene Glycol Tank Tank MS-213-M	Ethylene Glycol	<0.01	<0.01
802S	Firewater Pump	NO _x SO ₂ PM CO VOC	11.78 0.78 0.84 2.64 0.94	0.15 0.01 0.01 0.03 0.01
805	Firewater Pump	NO _x SO ₂ PM CO VOC	11.78 0.78 0.84 2.54 0.94	0.15 0.01 0.01 0.03 0.01

Emission *	Source	Air Contaminant	<u>Emissior</u>	n Rates
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
CTOTANK	Catalytic Thermal Oxidizer	NO _x CO Total VOC	0.32 2.75 4.08	0.74 6.37 0.73
CTOVENT	Catalytic Thermal Oxidizer	NO _x CO Total VOC	0.49 4.20 12.32	0.74 6.33 1.47

- (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
 - SO_2 sulfur dioxide
 - PM particulate matter
 - CO carbon monoxide
 - VOC volatile organic compounds as defined in General Rule 101.1
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) Alternate allowable emission rates for these sources. These emission rates are authorized only when one of these boilers is out of service and do not apply to whichever boiler may be out of service.
- * 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	

AIR CONTAMINANTS DATA

Dated_____

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