#### 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)	1b/hr	TPY
201/219	Superheater HS-201/219	NO <sub>x</sub> SO <sub>2</sub> PM CO VOC	37.97 0.19 0.06 11.09 1.28	199.31 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	$NO_x$ $SO_2$ $PM$ $CO$ $VOC$	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	NO <sub>x</sub> SO <sub>2</sub> 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	$NO_{\times}$ $SO_{2}$ $PM$ $CO$	49.90 0.12 0.40 1.06	205.00 0.54 1.75 4.60

Emission	Source	Air Contaminant	<u>Emission</u>	Emission Rates *	
Point No. (1)	Name (2)	Name (3)	lb/hr	<u>TPY</u>	
		VOC	1.11	4.85	
1301	Alternate Boiler	NO <sub>x</sub>	17.83	-	
	HB-1301-P (5)	SO₂ PM	0.14 0.51	- -	
		CO	11.89	_	
		VOC	1.38	_	

Emission	Source	Air Contaminant	<u>Emission</u>	Rates *
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
301-A	Alternate Boiler HB-301-A (5)	NO <sub>x</sub> SO <sub>2</sub> 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 <sub>x</sub> SO₂ PM CO VOC	7.80 0.07 0.39 0.17 0.10	34.17 0.31 1.71 0.75 0.44
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 (was 103)	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.	$NO_x$	17.14	75.07

Emission	Source	Air Contaminant	Emission Rates *	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
(was 104)	Reboiler HS-108	SO₂ PM CO VOC	0.11 0.36 6.96 0.72	0.47 1.58 30.48 3.15

Emission	Source	Air Contaminant	Emissio	n Rates *
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
RTO	Regenerative Thermal Oxidizer	NO <sub>x</sub> CO Total VOC Styrene Toluene Benzene Ethylbenzene Cumene Xylene Non-HAP VOC	1.63 0.41 4.08 0.47 1.34 1.33 0.89 0.00 0.02 0.02	0.15 1.29 0.69 0.19 0.08 0.24 0.16 0.00 0.00
СТО	Catalytic Thermal Oxidizer	NO <sub>x</sub> CO Total VOC Benzene Toluene Ethylbenzene Cumene Xylene Styrene Non-HAP VOC	0.49 4.16 12.32 7.85 0.55 2.42 0.02 0.06 1.27 0.13	0.40 3.40 1.47 0.92 0.16 0.29 0.00 0.00 0.11
213	Ethylene Glycol Tank Tank MS-213-M	Ethylene Glycol	<0.01	<0.01
308 (was 374)	Flux Oil Tank MT-308	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	0.69 0.59 0.59	3.01 2.58 2.58

Emission	Source	Air Contaminant	<u>Emission</u>	Emission Rates *	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY	
		Benzene	0.10	0.43	
LR-1	Loading Rack (4)	Ethylbenzene	4.32	<0.01	
CT-1	Cooling Tower-1 (4)	VOC	2.52	7.67	
CT-2	Cooling Tower-2 (4)	VOC	<0.01	<0.01	

Emission	Source	Air Contaminant	Emission	Rates *
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
FL	Flare	NO <sub>x</sub> SO₂ CO VOC, other	5.53 0.07 39.95 0.06	0.31 <0.01 2.25 1.10
	N <sub>2</sub> Purge	Benzene	7.35	0.09
GY-347	Precoat (was WW sludge	e) PM	<0.01	<0.01
SWS	Storm Water Sump	Styrene Ethylbenzene Toluene Benzene	<0.01 <0.01 <0.01 <0.01	<0.01 <0.01 <0.01 <0.01
115	Emergency Generator	$NO_x$ $SO_2$ $PM$ $CO$ $VOC$	12.26 2.64 0.60 0.86 1.19	0.16 0.03 0.01 0.01 0.02
802A	Firewater Pump	$NO_x$ $SO_2$ $PM$ $CO$ $VOC$	12.26 2.64 0.60 0.86 1.19	0.16 0.03 0.01 0.01 0.02
802S	Firewater Pump	NO <sub>x</sub> SO <sub>2</sub> PM CO VOC	12.26 0.60 0.86 2.64 1.19	0.16 0.01 0.01 0.03 0.02
805	Firewater Pump	$NO_x$ $SO_2$ $PM$ $CO$	12.26 0.60 0.86 2.64	0.16 0.01 0.01 0.03

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# EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES AIR CONTAMINANTS DATA

Emission	Source	Air Contaminant	<u>Emission</u>	Rates *
Point No. (1)	Name (2)	Name (3)	lb/hr	<u>TPY</u>
		VOC	1.19	0.03

• •	•		r specific equipment
	on or emission point	•	
•	•	ame. For fugitive	sources use area name
or fugiti	ve source name.		
(3)	$NO_x$	- total	oxides of nitrogen
$SO_2$	- sulfur dioxide		
PM	- particulate mat	ter	
CO	- carbon monoxide		
VOC	- volatile organ	ic compounds as de	fined in General Rule
101.1			
$N_2$	- nitrogen		
Non-HAP VO	C - non-hazardous a <sup>.</sup>	ir pollutant VOC	
(4)	Fugitive emission	s are an estimate o	only and should not be
con	ısidered as a maximuı	m allowable emissior	n rate.
(5)	Alternate allowa	ble emission rates	s for these sources.
The	se emission rates	are authorized on	ly when one of these
boi	lers is out of serv	rice, and do not app	ly to whichever boiler
may	be out of service.		
			s are limited by the
fol	lowing maximum opera	ating schedule:	
Hrs/day	Days/week	Weeks/vear	or Hrs/vear 8 760

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# EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES AIR CONTAMINANTS DATA

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