EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

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.

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	TPY
201/219	Superheater HS-201/219	NO_x	37.97	199.31
		SO_2	0.19	0.84
		PM	0.06	0.25
		CO	11.09	48.56
		VOC	1.28	5.62
1301	Boiler HB-1301-P	NO_x	15.10	66.10
		SO_2	0.12	0.52
		PM	0.43	1.89
		CO	10.78	47.21
		VOC	1.16	5.10
301-A	Boiler HB-301-A	NO_x	32.65	143.00
		SO_2	0.12	0.54
		PM	0.69	3.04
		CO	0.08	0.35
		VOC	0.21	0.91
301-B	Boiler HB-301-B	NO_x	38.70	169.70
		SO_2	0.12	0.54
		PM	0.36	1.56
		CO	0.08	0.36
		VOC	1.18	5.18
301-S	Boiler HB-301-S	NO_x	49.90	205.00
		SO_2	0.12	0.54
		PM	0.40	1.75

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	TPY
		CO	1.06	4.60
		VOC	1.11	4.85
1301	Alternate Boiler HB-1301-P (5)	NO_x	17.83	-
		SO_2	0.14	-
		PM	0.51	-
		CO	11.89	-
		VOC	1.38	-
301-A	Alternate Boiler HB-301-A (5)	NO_x	34.76	-
		SO_2	0.13	-
		PM	0.74	-
		CO	0.09	-
		VOC	0.22	-
301-B	Alternate Boiler HB-301-B (5)	NO_x	40.20	-
		SO_2	0.13	-
		PM	0.38	-
		CO	0.08	-
		VOC	1.22	-
301-S	Alternate Boiler HB-301-S (5)	NO_x	53.14	-
		SO_2	0.14	-
		PM	0.45	-
		CO	1.20	-
		VOC	1.26	-
101	Feed Preheater Heater HS-101	NO_x	7.80	34.17
		SO_2	0.07	0.31
		PM	0.39	1.71
		CO	0.17	0.75
		VOC	0.10	0.44
601	TDA Reactor Feed	NO_x	1.30	5.68

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Emission Point No. (1) *	Source Name (2)	Air Contaminant Name (3)	Emission Rates lb/hr	TPY
	Heater HS-601	SO_2	0.01	0.03
		PM	0.19	0.83
		CO	0.01	0.04
		VOC	0.02	0.09
109	EB Recovery Col. Reboiler HS-109	NO_x	10.95	47.95
		SO_2	0.06	0.26
		PM	0.39	1.71
		CO	0.24	1.04
		VOC	0.05	0.22
108	Benzene Rec. Col. Reboiler HS-108	NO_x	17.14	75.07
		SO_2	0.11	0.47
		PM	0.36	1.58
		CO	6.96	30.48
		VOC	0.72	3.15
CTOTANK (new name)	Regenerative Thermal Oxidizer	NO_x	1.63	0.15
		CO	0.41	1.29
		Total VOC	4.08	0.69
		Styrene	0.47	0.19
		Toluene	1.34	0.08
		Benzene	1.33	0.24
		Ethylbenzene	0.89	0.16
		Cumene	0.00	0.00
		Xylene	0.02	0.00
		Non-HAP VOC	0.02	0.00
CTOVENT (new name)	Catalytic Thermal Oxidizer	NO_x	0.49	0.40
		CO	4.16	3.40
		Total VOC	12.32	1.47
		Benzene	7.85	0.92
		Toluene	0.55	0.16
		Ethylbenzene	2.42	0.29
		Cumene	0.02	0.00

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AIR CONTAMINANTS DATA

Emission Point No. (1) *	Source Name (2)	Air Contaminant Name (3)	Emission Rates lb/hr	TPY
		Xylene	0.06	0.00
		Styrene	1.27	0.11
		Non-HAP VOC	0.13	0.00
213	Ethylene Glycol Tank Tank MS-213-M	Ethylene Glycol	<0.01	<0.01

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Emission Point No. (1) *	Source Name (2)	Air Contaminant Name (3)	Emission Rates lb/hr	TPY
308	Flux Oil Tank MT-308	VOC	<0.01	<0.01
FUG-BZ	Benzene Fugitives (4)	Styrene	0.07	0.31
		Ethylbenzene	0.11	0.47
		Toluene	0.11	0.47
		Benzene	0.43	1.87
FUG-VOC	VOC Fugitives (4)	Styrene	0.69	3.01
		Ethylbenzene	0.59	2.58
		Toluene	0.59	2.58
		Benzene	0.10	0.43
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
FL	Flare	NO_x	5.53	0.31
		SO_2	0.07	<0.01
		CO	39.95	2.25
		VOC, other	0.06	1.10
	N_2 Purge	Benzene	7.35	0.09
GY-347	Precoat	PM	<0.01	<0.01
SWS	Storm Water Sump	Styrene	<0.01	<0.01
		Ethylbenzene	<0.01	<0.01
		Toluene	<0.01	<0.01
		Benzene	<0.01	<0.01
115	Emergency Generator	NO_x	12.26	0.16
		SO_2	2.64	0.03
		PM	0.60	0.01

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AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	TPY
		CO	0.86	0.01
		VOC	1.19	0.02
802A	Firewater Pump	NO_x	12.26	0.16
		SO_2	2.64	0.03
		PM	0.60	0.01
		CO	0.86	0.01
		VOC	1.19	0.02
802S	Firewater Pump	NO_x	12.26	0.16
		SO_2	0.60	0.01
		PM	0.86	0.01
		CO	2.64	0.03
		VOC	1.19	0.02
805	Firewater Pump	NO_x	12.26	0.16
		SO_2	0.60	0.01
		PM	0.86	0.01
		CO	2.64	0.03
		VOC	1.19	0.03

(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
N_2 - nitrogen
Non-HAP VOC - non-hazardous air pollutant VOC

(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___

Dated_____