EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Numbers 37979 and N009

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**
BOIL-Y1801	30-Barg Boiler	NO_x	8.06	8.76
		SO_2	2.79	3.88
		CO	15.92	11.10
		PM/PM_{10}	1.51	2.11
		VOC	1.09	1.10
BOIL-Y1801	30-Barg Boiler (6)	NO_x	1.99	8.72
		SO_2	0.29	1.28
		CO	13.93	30.51
		$PM/PM_{10}/PM_{2.5}$	1.54	6.76
		VOC	1.09	4.79
		NH_3	0.92	4.01
CTWR-1701	Cooling Tower	PM/PM_{10}	0.12	0.53
		VOC	1.26	5.52
LOAD-FUG	Tank Truck Loading Losses	VOC	0.06	0.05
		Organic HAPs	0.06	0.05
OS-FUG	Fugitives (4)	VOC	0.71	3.10
		HAPs	0.48	2.06
		NH_3 (6)	0.01	0.06
V-1609	H_2SO_4 Tank	H_2SO_4	0.01	0.01
TK1614	Neutralization Tank	H_2SO_4	0.01	0.01
THOX-Y1907	OSBL Thermal Oxidizer	NO_x	1.00	4.38
		SO_2	3.46	15.16
		CO	1.10	4.82
		PM/PM_{10}	1.23	5.39
		VOC	0.23	0.99
		Organic HAPs	0.11	0.43

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	TPY**
FIRE-PUMPS	Firewater Pumps	NO_x	23.25	2.56
		CO	5.01	0.55
		SO_2	1.54	0.17
		PM	1.65	0.18
		VOC	1.89	0.21
DIESEL-TNK	Diesel Fuel Storage Tanks	VOC	0.02	0.01
GAS-TK	Gasoline Storage Tank	VOC	4.15	0.02
DIESEL-TK2	Diesel Storage Tank	VOC	0.74	0.02
LUBE-TK	Lube Oil Storage Tank	VOC	0.14	0.01
TK-1703	Tank 1703	VOC	0.09	0.01
DEGREASE-1	Degreaser	VOC	0.01	0.01
WASH-PAD	Wash Pad	VOC	0.26	0.12
		Organic HAPs	0.26	0.12
AA-FUG	AA Fugitives (4)	Total VOC (5)	1.98	8.38
		Propylene	0.18	0.69
		Total HAPs	1.75	7.67
		CO	0.01	0.01
THOX-Y1170	AA Thermal Oxidizer (7)	Total VOC (5)	5.73	22.65
		Propylene	0.45	1.96
		Total HAPs	1.62	6.19
		NO_x	13.51	43.93
		SO_2	2.20	9.64
		CO	15.87	50.24
		PM/PM_{10}	14.17	52.12

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	TPY**
SK-1186	AA Thermal Oxidizer (7) (HRSG Stack)	Total VOC (5)	5.73	22.65
		Propylene	0.45	1.96
		Total HAPs	1.62	6.19
		NO_x	13.51	43.93
		SO_2	2.20	9.64
		CO	15.87	50.24
		PM/PM_{10}	14.17	52.12
AA-MATL	Material Handling	PM/PM_{10}	0.78	0.06
AA-MNTC	Maintenance Activities	Total VOC	0.08	0.01
		NO_x	0.04	0.01
		CO	0.04	0.01
		Acrylic Acid	0.08	0.01

(1) Emission point identification - either specific equipment designation or emission point number (EPN) from plot plan.
(2) Specific point source name. 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
NH_3 - ammonia
NO_x - total oxides of nitrogen
SO_2 - sulfur dioxide
PM - particulate matter, suspended in the atmosphere, including PM_{10}.
PM_{10} - 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 is emitted.
$PM_{2.5}$ - particulate matter equal to or less than 2.5 microns in diameter.
CO - carbon monoxide
H_2SO_4 - sulfuric acid
HAP - hazardous air pollutants
(4) Emission rate is an estimate and compliance is demonstrated by meeting the requirements of the applicable special conditions and permit application representations.
(5) The total VOC emissions include propylene and organic HAPs.
(6) Effective upon start of operation of the SCR (permit amendment submitted October 29, 2009).

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

(7) Emissions represent total combined emission rates from EPNs THOX-Y1170 and SK1186.

* Emission rates are based on and the facilities are limited by the following maximum operating schedule:

____ Hrs/day ___ Days/week ____ Weeks/year or 8,760 Hrs/year

** Compliance with annual emission limits is based on a rolling 12-month period.

Dated: July 20, 2010