Emission Sources - Maximum Allowable Emission Rates

Permit Number 18836 and PSDTX1206

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, sources, and related activities. 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	
			lbs/hour	TPY (4)
CB-1	Compounding Building 1	PM_{10}	0.09	0.35
		VOC (6)	9.21	3.40
CB-2	Compounding Building 2	PM_{10}	0.06	0.27
		VOC (6)		
CB-3	Compounding Building 3	PM_{10}	0.06	0.19
		VOC (6)		
CT-711	Cooling Tower (5)	VOC	1.05	4.60
CT-711A	Cooling Tower (5)	VOC	1.68	7.36
FLARE	Flare	CO	53.50	49.90
		NO_x	7.41	9.80
		SO_2	0.06	0.02
		VOC	45.20	61.70
	Flare (8)	CO	58.70	6.33
		NO_x	11.40	1.20
		SO_2	1.30	0.01
		VOC	64.70	12.90
FUGITIVE	Process Fugitives (5)	VOC	7.84	34.31
HF-415	Additive Baghouse	PM_{10}	0.84	3.68
HF-481	Pelletizing Building Filter Receiver	PM_{10}	6.00	1.40

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BOILERS: Case 1 – Natural Gas/Plant Fuel Gas				
HH-731A	Boiler A	CO	5.81	25.43
		NO_x	4.78	20.95
		PM/PM_{10}	1.11	4.88
		SO_2	1.05	4.62
		VOC	0.22	0.97
HH-731B	Boiler B	CO	5.81	25.43
		NO_x	4.78	20.95
		PM/PM_{10}	1.11	4.88
		SO_2	1.05	4.62
		VOC	0.22	0.97
BOILERS: Case 2 – Combination of Natural Gas/Plant Fuel Gas plus By-Product Liquid Wax				
HH-731A	Boiler A	CO	6.26	27.42
		NO_x	8.32	28.69
		PM	10.17	24.71
		PM_{10}	8.20	20.38
		SO_2	2.90	8.67
		VOC	0.50	1.42
HH-731B	Boiler B	CO	6.26	27.42
		NO_x	8.32	28.69
		PM	10.17	24.71
		PM_{10}	8.20	20.38
		SO_2	2.90	8.67
		VOC	0.50	1.42

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HST-101	Catalyst Preparation Area Condenser (Backup service only)	VOC	61.00	0.68
HT-171	Tank T-171	VOC	0.21	0.17
HT-601	Tank T-601	VOC	0.51	0.97
HT-602	Tank T-602	VOC	2.34	2.7
HT-606	Tank T-606	VOC	2.34	1.3
HT-608	Tank T-608	VOC	0.20	<0.01
HT-735	Tank T-735	VOC	1.06	1.44
HT-793	Tank T-793	VOC	0.02	<0.01
HT-794	Tank T-794	VOC	0.02	<0.01
HT-797	Tank T-797	VOC	0.03	<0.01
HT-798	Tank T-798	VOC	0.06	<0.01
HT-799	Tank T-799	VOC	15.05	0.19
HT-801	Tank T-801	VOC	5.41	0.02
HV-124	ATE System Vent	VOC	11.49	1.37
HV-125	DEAC System Vent	VOC	11.39	1.17
HV-305	Tank V-305	VOC	0.13	<0.01
HX-411	Extruder CAS (Back up service only)	PM_{10}	1.90	1.90
		VOC	7.80	1.12
WWTP-2	Wastewater	VOC	0.46	2.10
HBL-431	Blending Silo Vents	PM_{10}	1.74	2.69
		VOC (7)	40.10	57.66
HT-441	Product Silo Vents	PM_{10}	0.24	0.63
		VOC (7)		
HF-454	Product Filter Receiver	PM_{10}	0.65	2.85

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		VOC (7)		
HF-456	Product Silos Baghouse	PM_{10}	3.67	16.08
		VOC (7)		
HTB-451	Railcar Silo Vents	PM_{10}	0.35	0.82
		VOC (7)		
HQ-460	Bagging/Boxing	PM_{10}	0.09	0.17
		VOC (7)		
EG-701	Diesel Generators	CO	2.91	0.08
		NO_x	13.49	0.35
		PM_{10}	0.96	0.02
		SO_2	0.89	0.02
		VOC	1.09	0.03
P-741B	Firewater Pumps	CO	2.34	0.06
		NO_x	10.85	0.28
		PM_{10}	0.77	0.02
		SO_2	0.72	0.02
		VOC	0.88	0.02
P-741C	Firewater Pumps	CO	2.34	0.06
		NO_x	10.85	0.28
		PM_{10}	0.77	0.02
		SO_2	0.72	0.02
		VOC	0.88	0.02
PWDRLDG	Power Loading	VOC	6.00	4.98
MSS	MSS Activities	$PM/PM_{10}/PM_{2.5}$	1.30	0.03
		VOC	182.70	5.80

Emission Sources - Maximum Allowable Emission Rates

(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) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
NO_x - total oxides of nitrogen
SO_2 - sulfur dioxide
PM - total particulate matter, suspended in the atmosphere, including PM_{10} and $PM_{2.5}$, as represented
PM_{10} - total particulate matter equal to or less than 10 microns in diameter, including $PM_{2.5}$, as represented
$PM_{2.5}$ - particulate matter equal to or less than 2.5 microns in diameter
CO - carbon monoxide
(4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.
(5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.
(6) The VOC emissions for the compounding buildings, including EPNs CB-1, CB-2, CB-3, are combined into EPN CB-1 for the purposes of this table.
(7) The VOC emissions for all dry pellet handling equipment, including EPNs HBL-431, HT-441, HTB-451, HF-454, HF-456, and HQ-460, are combined into EPN HBL-431 for the purposes of this table.
(8) Emissions during MSS.

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

Hrs/year 8,760

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

Date: August 2, 2012