Emission Sources - Maximum Allowable Emission Rates

Permit Number 19871 and PSDTX1236

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)
8DF-20A	Diesel Storage Tank	VOC	0.10	0.01
8DF-20B	Diesel Storage Tank	VOC	0.10	0.01
8FP-D20A	Diesel Fire Water Pump	NOx	14.88	0.38
		CO	3.22	0.08
		VOC	1.19	0.04
		PM	1.06	0.04
		SO2	1.68	0.06
8FP-D20B	Diesel Fire Water Pump	NOx	14.88	0.38
		CO	3.22	0.08
		VOC	1.19	0.04
		PM	1.06	0.04
		SO2	1.68	0.06
8FT-D01	Naphtha Tank	VOC	11.07	23.21
8FT-D03	Naphtha Tank	VOC	6.79	14.11
8FT-D09A	Monoethylene Glycol (MEG) Tank	VOC	0.35	0.27
8FT-D09B	MEG Tank	VOC	0.35	0.27
8FT-D14	Diethylene Glycol Storage Tank	VOC	0.01	0.02
1018	Olefins 1 Elevated Flare – Inland Traffic Contribution from Railcar Loading arm	VOC	0.11	0.06
		NO_x	0.03	0.13
		CO	0.02	0.11

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		SO_2	0.01	0.01
8F-D01	Chandelier Flare	NOx	0.15	0.01
		NO_x MSS	10.20	0.50
		CO	0.30	0.01
		CO MSS	20.40	1.02
		SO_2	0.01	0.01
		SO2MSS	0.01	0.01
		VOC MSS	62.9	3.09
8F-D02	Dock Incinerator/Scrubber/Ship and Barge Loading	EDC	0.04	0.02
		NOx	3.30	14.45
		CO	0.14	0.61
		PM	1.10	4.80
		SO_2	0.03	0.15
		HCl	0.42	1.84
		Cl_2	0.41	1.80
		VOC	0.40	1.75
8F-D03	Dock Flare/Barge Loading (8)	VOC	22.42	15.97
		NOx	2.47	1.69
		CO	21.12	14.15
		SO_2	0.01	0.01

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8F-D04	FT-D18 Flare	VOC	0.02	0.03
		VOC MSS	15.00	0.06
		NOx	1.10	4.82
		NO_x MSS	2.00	0.16
		CO	1.50	6.57
		CO MSS	3.90	0.31
		SO_2	0.01	0.02
		SO_2 MSS	0.01	0.31
8F-D05	BTX Tank Flare	CO	1.77	7.75
		CO MSS	3.90	0.39
		NO_X	0.88	3.85
		NO_x MSS	1.08	0.28
		SO_2	0.01	0.02
		SO_2 MSS	0.01	0.01
		VOC	0.02	0.02
		VOC MSS	15.00	0.04
8F-D06	Tank Farm Flare (7)	VOC	0.16	0.15
		VOC MSS	1.10	0.02
		NOx	2.01	8.73
		NO_x MSS	0.10	0.003
		CO	4.01	17.43
		CO MSS	0.30	0.01
		SO_2	0.01	0.02
		SO_2 MSS	0.01	0.01
8F-D07	Dock Vapor Combustor/Barge and Ship Loading (8)	VOC	11.21	8.04

Emission Sources - Maximum Allowable Emission Rates

		NO_x	2.02	3.06
		CO	17.24	25.88
		$PM/PM_{10}/PM_{2.5}$	0.23	0.35
		SO_2	0.01	0.01
8F-D03/8F-D07	Flare/Vapor Combustor Cap (8)	VOC		15.97
		NO_x		3.06
		CO		25.88
		$PM/PM_{10}/PM_{2.5}$		0.35
		SO_2		o.o1
8FT-901S1	Caustic Tank	NaOH	0.01	0.01
8FT-901S2	Caustic Tank	NaOH	0.01	0.01
8FT-902	Caustic Tank	NaOH	0.01	0.01
8FT-911S1	Caustic Tank	NaOH	0.01	0.01
8FT-911S2	Caustic Tank	NaOH	0.01	0.01
8FT-911S3	Caustic Tank	NaOH	0.01	0.01
8FT-911S4	Caustic Tank	NaOH	0.01	0.01
8FT-D07A	Caustic Tank	NaOH	0.01	0.01
8FT-D07B	Caustic Tank	NaOH	0.01	0.01
8F-EG	MEG and DEG Loading (6)	VOC	0.92	0.56
PFO-L01	Uncollected Pyrolysis Fuel Oil Loading Losses	VOC	21.84	0.27
PF-L02	Inland Traffic Uncollected EG Loading Losses	VOC	0.31	0.13
8FDFUGDOCK	Dock Piping Process Fugitives (5)	VOC	0.43	1.82
8FDFUGINLD	Inland Traffic Process Fugitives (5)	VOC	0.24	1.05
8FD-FUGTK	Tank Farm Process Fugitives (5)	VOC	0.90	3.95

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8GT-809B	TEG Storage Tank	VOC	0.01	0.01
8GT-811	DEG Storage Tank	VOC	0.01	0.01
TRFDSLFUG	Traffic Facility Fire Water System Fugitives (5)	VOC	0.03	0.11
PF-BARGFUG	Barge Process Loading Fugitives (5)	VOC	56.06	0.80
PF-SHIPFUG	Ship Process Loading Fugitives (5)	VOC	55.04	14.04
IBLFUG	Railcar Piping Process Fugitives	VOC	0.83	3.64
Maintenance, Startup, and Shutdown (MSS)				
ITRAFF-MNT	Inland Traffic MSS to Atmosphere	VOC	760.31	7.61
		CO	2.01	0.09
		NO_x	1.01	0.04
		SO_2	0.01	0.01
MTRAFF-MNT	Marine Traffic MSS to Atmosphere	VOC	469.00	5.19
		CO	3.00	0.14
		NO_x	1.50	0.09
		SO_2	0.01	0.01
		$PM/PM_{10}/PM_{2.5}$	0.07	0.01

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, other than EDC.
NO_x - total oxides of nitrogen
CO - carbon monoxide
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.
SO_2 - sulfur dioxide
EDC - ethylene dichloride
HCl - hydrogen chloride
Cl_2 - chlorine
NaOH - sodium hydroxide
(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) Includes losses from MEG ship and barge loading and DEG barge loading.
(7) These emissions are to commence upon installation and completion of Flare (EPN 8f-D06).
(8) The sum of the annual contributions for EPNs 8F-D03 and 8F-D07 cannot exceed the cap established by EPN 8F-D03/8F-D07, Flare/Vapor Combustor Cap.

Date: December 11, 2012