

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 4196

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
251AV93	Storage Tank V-93	VOC	1.1	2.3
251AV199	Storage Tank V-199	VOC	1.1	1.5
251AV200	Storage Tank V-200	VOC	1.1	2.3
251AV644	Storage Tank V-644	VOC	1.4	2.3
251CV810	Acetic Acid Tank	VOC	0.6	0.3
251CV812	Storage Tank V-812	VOC	1.7	3.3
251V809	Acetic Acid Seal Pot	VOC	0.97	0.40
110V1211	Storage Tank V-1211	VOC	0.3	0.4
110T22	Scrubber	VOC	3.9	2.0
303M1239	Ethylene Flare (5)	VOC	256.3	36.8
		NO _x	28.4	14.0
		CO	144.7	71.5
		SO ₂	2.3	2.6
303M1239	Ethylene Flare (5) VA Maintenance, Start-Up, and Shutdown	VOC	418.50	0.5
		NO _x	78.3	0.1
		CO	399.1	0.5
		SO ₂	5.0	0.05

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			<u>lb/hr</u>	<u>TPY</u>
110F	Filters/Pumps/Instruments Maintenance, Start-Up, and Shutdown	VOC	6.80	0.1
110F	VA Unit Equipment Fugitives (4)	VOC	6.40	27.9
251DBL	Barge Loading Fugitives (4) (6)	VOC	7.50	6.30
251DTC	Railcar Loading (4)	VOC	9.80	(6)
251DTL	Large Tank Truck Loading Fugitives (4)	VOC	1.1	(6)
251DTL2	Small Tank Truck Loading Fugitives (4)	VOC	3.1	(6)
251DM1205	Shipping Flare (5)	VOC	105.5	19.40
		NO _x	3.3	0.60
		CO	28.6	5.10
		SO ₂	0.05	0.05
302M330/331/460	Plant Boilers (5)	VOC	3.40	1.8
		NO _x	60.30	115.6
		CO	75.0	59.3
		SO ₂	4.00	8.50
		PM ₁₀	3.90	7.00
251DM2224	Shipping Incinerator (5)	VOC	0.60	0.10
		NO _x	0.50	0.10
		CO	0.40	0.10
		SO ₂	0.05	0.05
		PM ₁₀	0.05	0.05

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			lb/hr	TPY
251F	Shipping Equipment Fugitives (4) (5)	VOC	0.65	2.80
110FM1	PBQ Mixing	VOC	7.10	1.30
110FM2	HQ Mixing	VOC	4.78	0.18
110BLD134	Analyzer Vents (Blgd. 134)	VOC	1.95	1.71
110BLD135	Analyzer Vents (Blgd. 135)	VOC	1.06	0.95
110BLD136	Analyzer Vents (Blgd. 136)	VOC	0.39	0.34

- (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
 NO_x - nitrogen oxides
 CO - carbon monoxide
 SO₂ - sulfur dioxide
 PM₁₀ - particulate matter (PM) 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.
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) Vinyl Acetate unit contributions only.
- (6) The annual emissions rate for EPNs 251DTL, 251DTL2, and 251DTC are included in the annual emission rate for EPN 251DBL. All annual emissions for these sources are not to exceed a rolling 12-month emission rate listed for EPN 251DBL.
- * Emission rates are based on and the facilities are limited by the following maximum operating schedule:

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			<u>lb/hr</u>	<u>TPY</u>

24 Hrs/day 7 Days/week 52 Weeks/year or Hrs/year

Dated April 22, 2005