

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 36624

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
T1	Storage Tank (5)	Acrylonitrile	0.53	
T2	Storage Tank (5)	Acrylonitrile	0.53	
T4	Storage Tank (5)	Acrylonitrile	0.53	
T1, T2, and T4	Storage Tanks (5)	Acrylonitrile		1.65
P1	Ship Loading Fugitives (4)(6)	Acrylonitrile	0.16	0.72
P1	Ship Loading Fugitives (4)(7)	NH ₃	0.02	0.11
P2	Storage Tank Fugitives (4)	Acrylonitrile	0.56	2.45
P3	Storage Sphere Fugitives (4)	NH ₃	0.18	0.78
P4	Barge Loading Fugitives (4)(6)	Acrylonitrile	0.11	0.47
P4	Barge Loading Fugitives (4)(7)	NH ₃	0.02	0.11
H1	Pipeline Heater	PM ₁₀	0.05	0.22
		NO _x	0.94	4.12
		CO	0.54	2.38
		SO ₂	0.01	0.02
		VOC	0.04	0.18
H2	Pipeline Heater	PM ₁₀	0.05	0.22
		NO _x	0.94	4.12
		CO	0.54	2.38
		SO ₂	0.01	0.02
		VOC	0.04	0.18

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			lb/hr	TPY
H3	Pipeline Heater	PM ₁₀	0.04	0.18
		NO _x	0.67	2.93
		CO	0.39	1.71
		SO ₂	0.01	0.01
		VOC	0.03	0.13
VC1	Vapor Combustor (8)	NO _x	293.25	62.82
		CO	5.04	5.62
		Acrylonitrile	0.84	0.18
		SO ₂	0.22	0.24
EF1	Emergency Flare (pilot gas emissions)	NO _x	0.07	0.31
		CO	0.14	0.61
		SO ₂	0.01	0.04

- (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) PM₁₀ - particulate matter (PM) equal to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no particulate matter greater than 10 microns is emitted.
 NO_x - total oxides of nitrogen
 CO - carbon monoxide
 SO₂ - sulfur dioxide
 VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
 NH₃ - ammonia
- (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 allowable short-term and annual emission rates for the acrylonitrile storage tank facilities, either individually or combined, are capped at 0.53 lb/hr and 1.65 tons/year, respectively.
- (6) Simultaneous loading of acrylonitrile in ships and barges shall not occur.
- (7) Simultaneous loading of ammonia in ships and barges shall not occur.
- (8) Emissions are based on 1,850 hr/yr loading plus 600 hr/yr start-up and shutdown

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			<u>lb/hr</u>	<u>TPY</u>

* 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 February 27, 2008