

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 4140A

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**
32	Catalyst Preparation	Catalyst PM	0.01	0.01 (5)
33	Storage Silo Filter	Polyethylene PM	0.01	0.02 (6)
		VOC (7)	0.01	0.07
34	Storage Silo Filter	Polyethylene PM	0.01	0.05
		VOC (7)	0.01	--
48	Fugitives (4)	VOC	3.62	15.87
49	Silica Dehydrator	Silica PM	0.01	0.01 (5)
71	Silica Blow Tank Filter	Silica PM	0.01	0.01 (5)
73	Silica Storage Filter	Silica PM	0.01	0.01 (5)
74	Silica Blow Tank Filter	Silica PM	0.01	0.01 (5)
75	Catalyst Storage Filters	Catalyst PM	0.01	0.01 (5)
95-102	Storage Silo Filters	Polyethylene PM	0.44	0.04 (5,11)
201	Activator Vent	PM	0.01	0.01 (6)
		VOC	0.50	0.25 (6)
		NO _x	0.01	0.01 (6)
		CO	0.01	0.01 (6)
203	Activator Stack	NO _x	0.83	1.27 (8)
		CO	0.82	1.25 (8)
		VOC	0.05	0.08 (8)
		SO ₂	0.01	0.02 (8)

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY
		PM	0.07	0.11 (8)
204	Catalyst X Vent Filter	Catalyst PM	0.02	0.09
207	Purge Column Receiver Vent	Polyethylene PM	0.01	0.01
		VOC	0.03	0.13
208	Vibrating. Screen Receiver Vent	Polyethylene PM	0.01	0.01
		VOC	0.03	0.13
209	Vibrating. Screen Oversize Vent	VOC	0.01	0.03
210	Cooling Tower	PM	1.86	5.09
		VOC	0.50	0.01
219	F10 Feed Silo Disengaging Vent Filter	Polyethylene PM	0.01	0.01
		VOC	0.01	0.03
220	Extruder Feed Silo Vent	Polyethylene PM	0.01	0.01
		VOC	0.68	2.97
229	System 11 Transfer Filter	Polyethylene PM	0.01	0.02
230	System 37 Transfer Filter	Polyethylene PM	0.01	0.03
231	System 8 Transfer Filter	Polyethylene PM	0.01	0.03
233	System 20 Transfer Filter	Polyethylene PM	0.01	0.01(9)
234	F394A Pellet Blender Filter Vent	Polyethylene PM (10)	0.01	0.02
		VOC (7)	0.01	--
235	F394B Pellet Blender Filter Vent	Polyethylene PM (10)	0.01	
--		VOC (7)	0.01	--
236	F3024A Pellet Blender Filter Vent	Polyethylene PM (10)	0.01	--
		VOC (7)	0.01	--

237	F3024B Pellet Blender Filter Vent	Polyethylene PM (10)	0.01	--
		VOC (7)	0.01	--
272	"G" Pellet Dryer	VOC (7)	0.01	--
CHROMGP	GP On-Line Analyzer	VOC	0.01	0.01

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- (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) PM - particulate matter, suspended in the atmosphere, including PM₁₀.
PM₁₀ - 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.
VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
NO_x - total oxides of nitrogen
CO - carbon monoxide
X-PM - catalyst (confidential)
SO₂ - sulfur dioxide
- (4) Emission rate is an estimate and compliance is demonstrated by meeting the requirements of the applicable special conditions and permit application representations.
- (5) Based on operation for a maximum of 600 hours per year.
- (6) Based on operation for a maximum of 4,000 hours per year
- (7) VOC emissions represent residual isopentane, hexene and hexane emissions from the process and have the potential to emit simultaneously from EPNs 33, 34, 234, 235, 236, 237, and 272. VOC emissions from EPNs 33, 34, and 234 through 237 have the same maximum hourly emissions as Emission Point 272. The annual emission rate of 0.07 tpy of total VOC (represented at EPN 33) represents the combined emissions from all of these sources.
- (8) Based on operation for a maximum of 3,050 hours per year
- (9) Based on operation for a maximum of 500 hours per year

(10) EPNs 234, 235, 236 and 237 are not allowed to emit simultaneously. The transfer systems shall feed only one silo at a time. The annual emission rate of 0.02 tpy PM listed under EPN 234 represents the combined PM emissions from all four filters.

(11) EPNs 95 through 102 each emit the listed emission rates.

* 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

** Compliance with the annual emissions is determined on rolling 12-months basis.

Dated May 26, 2006