

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 1567

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
226	Silica Preheater	PM	0.01	0.02
227	No. 1 Activator	PM	0.01	0.01
		VOC	7.225	
		0.99		
		Ammonia	0.3	0.04
228	No. 1 Activator Blow Tank	PM	0.04	0.01
229	Filter, Bins 1 through 5	PM	0.14	0.06
230	G-5 Blender Blow Tank	PM	0.12	0.02
231	Filter, Bins 11 through 15	PM	0.09	0.01
232	Filter, Bins 16 through 20	PM	0.13	0.02
233	G5 Catalyst Feed Vent	PM	0.01	0.01
245	Y-System Baghouse Vent	PM	0.10	0.19
246	Large Flare	VOC	165.41	82.57
		NO _x	12.68	7.95
		CO	64.64	40.49
		Ammonia	0.012	
		0.002		
248	G5 Gas Compressor Seal Oil Vent	VOC	0.27	1.16

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<u>TPY</u>				
			lb/hr	
249	Analyzer Vents	VOC	0.31	1.36
401, 402, 404, and 615	X-1, X-2, X-5, and X-6 Transfer Systems	PM	0.29	0.79 (7)
403	X-3 Transfer System	PM	0.10	0.19
409	Blending Bins Baghouse	PM	7.20	2.70
540	Master Batch System Vent	PM	0.02	<0.01
1005	G-5 Product Purge Bin Rotary Feeder Vent	PM	0.04	0.18
1029	Resin Seed Bed Vent (8)	PM	--	--

SILOS

234 H	Silo 101 Baghouse
235 H	Silo 102 Baghouse
236 H	Silo 103 Baghouse
237 H	Silo 104 Baghouse
238 H	Silo 105 Baghouse
239 H	Silo 106 Baghouse
240 H	Silo 107 Baghouse
241 H	Silo 201 Baghouse
242 H	Silo 202 Baghouse
243 H	Silo 203 Baghouse
244 H	Silo 204 Baghouse
399 H	Silo 205 Baghouse
400 H	Silo 206 Baghouse
387 H	Silo 401 Baghouse
388 H	Silo 402 Baghouse
389 H	Silo 403 Baghouse
390 H	Silo 404 Baghouse

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u> lb/hr	
<u>TPY</u>				
391 H	Silo 405 Baghouse			
392 H	Silo 406 Baghouse			
393 H	Silo 301 Baghouse			
394 H	Silo 302 Baghouse			
395 H	Silo 303 Baghouse			
396 H	Silo 304 Baghouse			
397 H	Silo 305 Baghouse			
398 H	Silo 306 Baghouse			
	Total Silos	PM	0.21 (6)	0.79 (7)
		VOC	6.61 (6)	11.37 (7)

BLENDING BINS

405	North Blending Bin			
406	South Blending Bin			
	Total EPNs 405 and 406	PM	0.90 (6)	0.49 (7)
766-3	Feed Stream Fugitives (4)	VOC	6.82	37.80
766-3A	G-Mix Fugitives	VOC	1.00	0.57
766-7	Reactor Fugitives (4)	VOC	5.77	25.28

CATALYST EXPANSION/ISOPENTANE RECOVERY

1125	No. 4 Activator Vent Filter	PM	<0.01	0.02
1126	No. 4 Activator Blow Tank Vent Filter	PM	<0.01	0.01
1127	G2 Blender Blow Tank	PM	<0.01	0.01

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TPY			lb/hr	
	Vent Filter			
1128	G4 Blender Blow Tank Vent Filter	PM	<0.01	0.01
1129	Catalyst Expansion Area Fugitives (4)	VOC	1.05	4.59
705	Small Flare	VOC	17.41	5.03
		NO _x	8.15	3.01
		CO	12.46	4.60
530	THF Tank Vent	VOC	22.06	0.53
535	Bin 7117 Vent Filter	PM	<0.01	0.01
535L	Bin 7117 Cylinder Loading Filter	PM	<0.01	0.01
1044	South Ethylene Sieve Vent	VOC	6.00	
1045	West Ethylene Sieve Vent	VOC	6.00	
	Total EPNs 1044 and 1045	VOC		1.62
1046	Isopentane Sieves Combined Vent	VOC	6.0	0.94
1047	Butene Sieves Combined Vent	VOC	6.0	3.94
1048	Hexene Sieves Combined Vent	VOC	6.0	0.94

UCAT-J FACILITY

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
<u>TPY</u>			<u>lb/hr</u>	
705	Small Flare	VOC	0.82	0.37
		NO _x	0.39	0.17
		CO	0.59	0.27
1150	Silica Charge Pot Filter	PM	<0.01	<0.01
1151	Magnesium Chloride Charge Pot Filter	PM	<0.01	<0.01
1152A	Product Cylinder Vent	VOC	<0.01	<0.01
1152B	Product Cylinder Vent	VOC	<0.01	<0.01
1154	Mineral Oil Tank Vent	VOC	<0.01	<0.01
1155	Fugitives (4)	Inorganic	<0.01	0.02
		VOC	0.52	2.24
1156A	Fugitives (4)-Silica Truck No. 1	PM	<0.01	<0.01
1156B	Fugitives (4)-Silica Truck No. 2	PM	<0.01	<0.01

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- (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)

PM	- particulate matter, suspended in the atmosphere, including PM ₁₀
VOC	- volatile organic compounds as defined in 30 Texas Administrative Code Section 101.1
NO _x	- total oxides of nitrogen
CO	- carbon monoxide
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) [reserved]
- (6) Maximum hourly emission rate from any one emission point listed within a group.
- (7) Maximum total annual emission rate for the group of listed emission points.
- (8) This EPN is associated with reactor start-up only.

* 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_____