Permit Numbers 1567 and PSD-TX-118M4

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.

Emission	Source	Air Contaminant <u>Emission Rates *</u>		Rates *
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY**
233	G5 Catalyst Feed Vent	PM VOC	0.01 0.31	0.01 1.36
245	Y-System Baghouse Vent	PM	0.10	0.19
246	Large Flare	VOC NO _x CO (PSD) SO ₂	210.30 29.75 151.57 0.40	65.79 18.26 93.06 0.50
246	Large Flare (Start-Up, Shutdown, and Maintenance	VOC) NO _x CO	507.88 46.31 235.99	2.93 0.27 1.38
248	G5 Gas Compressor Seal Oil Vent	VOC	0.27	1.16
249	Analyzer Vents	VOC	0.32	1.37
401, 402, 404, and 615	X-1, X-2, X-5, and X-6 Transfer Systems	РМ	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	РМ	0.02	0.08

Emission	Source	Air Contaminant <u>Emission Rates *</u>		Rates *
Point No. (1)	Name (2)	Name (3)	Name (3) lb/hr TI	
1029	Resin Seed Bed Vent (8)	8) PM 8.13 0.		0.13
<u>SILOS</u>				
234 H 235 H 236 H 237 H 238 H 239 H 240 H 241 H 242 H 243 H 244 H 399 H 400 H 387 H 388 H 389 H 390 H 391 H 392 H 393 H 394 H 395 H 396 H	Silo 101 Baghouse Silo 102 Baghouse Silo 103 Baghouse Silo 104 Baghouse Silo 105 Baghouse Silo 106 Baghouse Silo 201 Baghouse Silo 201 Baghouse Silo 202 Baghouse Silo 203 Baghouse Silo 204 Baghouse Silo 205 Baghouse Silo 206 Baghouse Silo 401 Baghouse Silo 402 Baghouse Silo 403 Baghouse Silo 404 Baghouse Silo 405 Baghouse Silo 406 Baghouse Silo 301 Baghouse Silo 301 Baghouse Silo 302 Baghouse Silo 303 Baghouse Silo 304 Baghouse			
397 H 398 H	Silo 305 Baghouse Silo 306 Baghouse			
	Total Silos	PM VOC	0.21 (6) 7.03 (6)	0.79 (7) 11.46 (7)
1081	Block 12 North Catalyst	VOC	5.87	0.85

Emission	Source	Air Contaminant	taminant <u>Emission Rates *</u>	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY**
	Wash Pot			
1082	Block 12 Middle Catalyst Wash Pot	VOC	5.87	0.85
1083	Block 12 South Catalyst Wash Pot	VOC	5.87	0.85
1084	Block 25 Precursor Wash Pot	VOC	5.87	1.45
1085	Block 25 G-2/G-4 Blender Wash Pot	VOC	5.87	1.45
BLENDING BINS				
405	North Blending Bin			
406	South Blending Bin			
Total EPNs 405 and 406		РМ	0.90 (6)	0.49 (7)
766-3	Feed Stream Fugitives (4)	VOC	8.57	37.58
766-7	Reactor Fugitives (4)	VOC	5.77	25.28
CATALYST EXPANS	SION/ISOPENTANE RECOVER	RY		
1125	No. 4 Activator Vent Filter	PM	0.01	0.02
1126	No. 4 Activator Blow Tank Vent Filter	РМ	0.01	0.01
1127	G2 Blender Blow Tank Vent Filter	PM VOC	0.01 0.10	0.01 0.45
1128	G4 Blender Blow Tank Vent Filter	PM VOC	0.01 0.10	0.01 0.45

Emission	Source Air Contaminant		Emission Rates *	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY**
1129	Catalyst Expansion Area Fugitives (4) (9)	VOC	1.16	5.09
705	Small Flare	VOC NO _x CO (PSD)	17.47 8.17 12.52	5.06 3.02 4.63
530	THF Tank Vent	VOC	22.06	0.53
535	Bin 7117 Vent Filter	PM Chromium Metal VOC	0.01 0.01 0.10	0.01 0.01 0.45
535L	Bin 7117 Cylinder Loading Filter	PM Chromium Metal VOC	0.01 0.01 0.04	0.01 0.01 0.18
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	3.95
1048	Hexene Sieves Combined Vent	VOC	6.0	0.75
1007	Catalyst Bin 31 Loading	PM VOC	0.02 0.71	0.09 3.09
1009	Catalyst Cylinder Loading	PM	0.01	0.01

Emission	Source	Air Contaminant	Emission Rates *	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY**
		VOC	0.02	0.07
UCAT-J FACILITY				
705	Small Flare	VOC NO _x CO	0.82 0.39 0.59	0.37 0.17 0.27
1150	Silica Charge Pot Filter	PM	0.01	0.02
1151	Magnesium Chloride Charge Pot Filter	РМ	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	.01
1155	Fugitives (4)	Inorganic VOC	0.01 0.52	0.02 2.24
1156A	Fugitives (4)-Silica Truck No. 1	РМ	0.01	0.01
1156B	Fugitives (4)-Silica Truck No. 2	РМ	0.01	0.01
1158A	THF Filters	VOC	0.07	0.01
1158B	THF Filters	VOC	0.07	0.01
1159A	THF Filters	VOC	0.07	0.01
1159B	THF Filters	VOC	0.07	0.01

	ssion It No. (1)	Source Name (2)		Air Contaminant Name (3)	Emission F	Rates * TPY**
(1) (2) (3) (4) emis (5) (6) (7) (8) (9)	from a plot plate Specific point PM - part PM ₁₀ - part PM ₁₀ - volate NO _x - tota CO - cart SO ₂ - sulf Fugitive emission rate. [reserved] Maximum tota This EPN is a 0.48 tpy of iso	nn. source names. For iculate matter, suspiculate matter equate shall be assumed atile organic compout oxides of nitrogen on monoxide ur dioxide sions are an estimated annual emission responsed annual emission em	fugitive source function of the all to or less to that no particulands as defined the only and short start-up only and through P	quipment designation es use area name or f atmosphere, including han 10 microns in dia late matter greater tha d in Title 30 Texas Ad nould not be considere hission point listed with oup of listed emission y, ermit by Rule Registr	fugitive source not PM ₁₀ ameter. Where an 10 microns is iministrative Code as a maximur thin a group.	ame. PM is not emitted. e § 101.1 n allowable
* sche	Emission rate edule:	s are based on an	d the facilities	are limited by the fol	llowing maximun	n operating
	Hrs/day	Days/weekW	eeks/year	or Hrs/year <u>8,760</u>	_	
**	Compliance w	rith annual emission	limits is base	d on a rolling 12-month	h period.	
						Dated