EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 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 *	Source	Air Contaminant	Emission	<u>Rates</u>
Point No. (1)	Name (2)	Name (3)	lb/hr	<u>TPY</u>
33 (Note 1)	Storage Silo Filter	Polyethylene	0.009	0.02
34	Storage Silo Filter	Polyethylene	0.01	0.04
95-103 (Note 2)	Storage Silo Filters	s Polyethylene	0.0142	0.001
121 (Note 2)	System 15 Transfer	Polyethylene	0.0142	0.001
114 (Note 3)	Fluff Blender	Polyethylene	0.075	0.0145
108-111 (Note 4)	D and E Feed	Polyethylene VOC	0.014 0.50	0.0135 2.10
122	System 16 Transfer	Polyethylene	0.06	0.12
201 (New)	Activator Vent <5.7x10 ⁻³	X-PM	<1.3x10 ⁻³	
	V3.7XI 0	VOC NO _x CO	0.50 0.001 0.002	0.27 0.002 0.004
203 (New)	Activator Stack	NO_X CO VOC SO_2 $X-PM$	0.85 0.20 0.05 0.02 0.024	<1.30 <0.30 0.078 0.04 0.037

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES AIR CONTAMINANTS DATA

Emission *	Source	Air Contaminant	<u>Emission</u>	Rates
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
204 (New)	Catalyst X Vent Filte 5.75x10 ⁻⁵	er X-PM	<1.3x10 ⁻³	
207 (New)	Purge Col. Receiver \	/ent Polyethylene VOC	1.0x10 ⁻³ 0.04	3.0x10 ⁻³ 0.175
208 (New)	Vib. Screen Receiver 3.0x10 ⁻³	Vent Polyethyl	ene	1.0x10 ⁻³
	3.0010	VOC	0.04	0.175
210 (New)	Cooling Tower	PM VOC	0.14 0.50	0.60 0.01
209 (New)	Vib. Screen Oversize 0.03	Vent	VOC	0.007
219 (New)	F10 F/R	Polyethylene VOC	0.001 0.007	0.004 0.03
220 (New)	Extruder Feed Silo Ve	ent Polyethylene VOC	0.001 0.70	0.004 3.03
229	System 11 Transfer	Polyethylene	0.005	0.02
230	System 37 Transfer	Polyethylene	0.006	0.024
231	System 8 Transfer	Polyethylene	0.006	0.024
232	System 9 Transfer	Polyethylene	0.008	0.032
233	System 20 Transfer	Polyethylene	0.004	0.001
23 (Notes 6 and	12)	Butene StorageBu	tene	
26 (Note 7)	Isopentane	Isopentane		
38	Cooling Tower (4)	PM ₁₀	0.35	1.40

		VOC	0.41	1.64
47 (Note 8)	GP Flare	VOC NO _x CO SO ₂	9.50 2.25 12.20 0.375	7.12 2.75 14.00 0.14
48 (Note 9)	Fugitives (4)	VOC	2.217	9.50
234	F394A	Polyethylene	3.0x10 ⁻⁶	1.2x10 ⁻⁵
235 (Note 13)	F394B	Polyethylene	3.0x10 ⁻⁶	

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EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES AIR CONTAMINANTS DATA

Emission <u>*</u>	Source	Air Contaminant	<u>Emission</u>	Rates
Point No. (1)	Name (2)	Name (3)	lb/hr	<u>TPY</u>
236 (Note 13)	F3024A	Polyethylene	3.0x10 ⁻⁶	
237 (Note 13)	F3024B	Polyethylene	3.0x10 ⁻⁶	
239	System 19 Transfer	Polyethylene	0.0077	0.015
240	F3048	Additives (BHT)	2.0x10 ⁻⁴	8.0x10 ⁻⁴

241 (Note 11)	System 5 Transfer	Polyethylene	8.0x10 ⁻⁴	0.0034
242	System 31 Transfer	Polyethylene	4.0x10 ⁻⁴	0.0017
32	Catalyst Preparation	Catalyst PM	0.009	9.0x10 ⁻⁴
49	Silica Dehydrator	Silica PM	0.009	9.0x10 ⁻⁴
71	Silica Blow	Silica PM	0.009	9.0x10 ⁻⁴
73	Silica Storage	Silica PM	0.009	9.0x10 ⁻⁴
74	Silica Blow	Silica PM	0.009	9.0x10 ⁻⁴
75	Catalyst Storage	Silica PM	0.009	9.0x10 ⁻⁴

- (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} .
 - PM_{10} 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.
 - VOC volatile organic compounds as defined in General Rule 101.1
 - NO_X total oxides of nitrogen
 - CO carbon monoxide
 - X-PM catalyst (confidential)
 - SO₂ sulfur dioxide
 - BHT butylated hydroxy toluene
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

* Emission rates are based on and the following maximum operating schedule:	facilities are limited by the
Hrs/day Days/week We 8,760	eks/year or Hrs/year
(Note 1) -	Emissions from Emission Point
No. (EPN) 33 are half pellets and half fluf (Note 2) -	f. Emissions occur for only 200
hrs/yr. (Note 3) - 4,000 hrs/yr.	Emissions occur for only
<pre>(Note 4) - organic compound concentration will be</pre>	
hourly rate is proportional to the feed (Note 5) -	rates. EPNs 225, 226, 243/244, 115,
119, 120, and 76/77 have been eliminated. (Note 6) - being inerted and removed from service.	EPN 23 (Butene Storage) is
(Note 7) - flare, but has a fire relief valve that the event of a fire.	This tank is vented to the will vent to the atmosphere in
(Note 8) - carbon monoxide emissions are increased in natural gas flow to maintain a minimum	
(Note 9) - details.	See fugitive emission
(Note 10) - normal emissions.	Pellet storage silos have no
(Note 11) - accommodate higher pellet transfer rates	
(Note 12) - flare during normal operation. Vent emergency over pressure.	Vent from this tank is to the is to the atmosphere during
(Note 13) - 236, and 237 are listed under 234 since any given time. The transfer system fee EPNs feed only one silo at a time such	eding the silos that have these

them is the same.

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