Permit Number 19016

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 Rates				
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY(4)			
Emission Limits	Emission Limits (Non-MSS)						
LDFLARE	LPE Process Flare ME-73007	VOC NO _x CO SO ₂	794.51 75.92 386.87 1.00	108.84 18.77 97.52 0.57			
L1TOA492	Reactor 1 Analyzer Thermal Oxidizer	VOC	0.01	0.01			
L1TOA891	Reactor 2 Analyzer Thermal Oxidizer	VOC	0.01	0.01			
L1T06A04	O₂ Analyzer Thermal Oxidizer	VOC	0.01	0.02			
LDBLR1	Boiler No. 1 (46.3 MMBtu/hr)	VOC NO _x CO SO ₂ PM ₁₀	1.62 2.78 3.80 0.65 0.35	7.10 12.17 16.63 2.84 1.52			
LDBLR2	Boiler No. 2 (46.3 MMBtu/hr)	VOC NO _x CO SO ₂ PM ₁₀	0.25 5.56 3.80 0.65 0.35	0.93 20.68 14.13 2.41 1.29			
L1BF25033	E4 Anti-Oxidant (A/O) Melt Tank Filter	PM ₁₀	0.01	0.01			

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Additive System	Additive Systems (6) VOC Cap	VOC	0.01	0.01
L1TK25054	E4 A/O Melt Tank	VOC	(6)	(6)
L1TK25055	E4 A/O Melt Day Tank	VOC	(6)	(6)
L1TK25053	E4 A/O Storage Tank	VOC	(6)	(6)
L1V33105V1	A/O Melt Tank	VOC	(6)	(6)
L1V33205V1	A/O Melt Tank	VOC	(6)	(6)
L1V33105V2	A/O Feed Tank	VOC	(6)	(6)
L1V33205V2	A/O Feed Tank	VOC	(6)	(6)
L1TK24137	E3 Bulk A/O Storage Tank	VOC	(6)	(6)
L1TK24138	E3 Bulk A/O Storage Tank	VOC	(6)	(6)
L1BFE2ADD1	E2 Common Additive Vent No. 1	VOC PM ₁₀	(6) 0.02	(6) 0.01
Catalyst System	Catalyst System VOC Cap (7)	VOC	10.65	2.17
L1VV03002A	Dehydrator Operation	PM ₁₀	0.01	0.01
L1VV03002B	Silica Dehydrator Operation	PM ₁₀	0.01	0.01
L1VV03004	Base Blow Tank	PM ₁₀	0.01	0.01
L1VV03243	TOB Blow Tank	VOC PM ₁₀	(7) 0.01	(7) 0.01
L1VV03301	Reduction Blow Tank	VOC PM ₁₀	(7) 0.01	(7) 0.01
L1VV03302	Catalyst Storage Bin V-03302	VOC PM ₁₀	(7) 0.01	(7) 0.01

L1VV03303	Catalyst Storage Bin	VOC	(7)	(7)
	V-03303	PM ₁₀	0.01	0.01
L1VV03304	Catalyst Storage Bin	VOC	(7)	(7)
	V-03304	PM ₁₀	0.01	0.01
L1VV03305	Catalyst Storage Bin	VOC	(7)	(7)
	V-03305	PM ₁₀	0.01	0.01
L1VV03306	Catalyst Storage Bin	VOC	(7)	(7)
	V-03306	PM ₁₀	0.01	0.01
L1VV03307	Catalyst Storage Bin	VOC	(7)	(7)
	V-03307	PM ₁₀	0.01	0.01
L1SFR1CAT1	Common Reactor 1	VOC	(7)	(7)
	Catalyst Vent No. 1	PM ₁₀	0.01	0.01
L1SFR2CAT1	Common Reactor 2	VOC	(7)	(7)
	Catalyst Vent No. 1	PM ₁₀	0.01	0.01
L1SF03252	Catalyst Loading Station	VOC	(7)	(7)
	No. 1	PM ₁₀	0.01	0.01
L1SF03327	Catalyst Loading Station	VOC	(7)	(7)
	No. 2	PM ₁₀	0.01	0.01
L1SF03352	Catalyst Loading Station	VOC	(7)	(7)
	No. 3	PM ₁₀	0.01	0.01
L1VV03290	Catalyst Weigh Pot (10)	HCI	0.36	0.08
L1SF04147	Catalyst Hold Tank Filter	VOC PM ₁₀	(7) 0.01	(7) 0.01
L1SF04172	Catalyst Vent Filter	VOC PM ₁₀	(7) 0.02	(7) 0.01
L1SF04148	Catalyst hold Tank Filter	VOC PM ₁₀	(7) 0.01	(7) 0.01

Residual System	Residual VOC Cap (8)	VOC	52.92	67.74
L1ANCATE2	O ₂ Analyzer in Catalyst Area	VOC	0.10	0.05
L1ANCATM1	O ₂ Analyzer in Catalyst Area	VOC	0.35	0.35
L1SF06111	Catalyst Blow Tank Filter	VOC PM ₁₀	1.50 0.01	0.20 0.01
L1SF06112	Loading Station Vent Filter	VOC PM ₁₀	0.63 0.01	0.08 0.01
L1SF06113	Loading Station Vent Filter	VOC PM ₁₀	0.63 0.01	0.08 0.01
L1SF06114	Blended Catalyst Loading Station Vent Filter	PM ₁₀	0.01	0.01
L1SF06115	Waste Catalyst Vent Filter	PM ₁₀	0.01	0.01
L1SF06116	PT Maintenance Station Vent Filter	PM ₁₀	0.01	0.01
L1YF01310A	Extruder Feed Bin 1A	VOC PM ₁₀	(8) 0.39	(8) 0.44
L1YF01310B	Extruder Feed Bin 1B	VOC PM ₁₀	(8) 0.39	(8) 0.44
L1YF01310D	Extruder Feed Bin 1D	VOC PM ₁₀	(8) 0.39	(8) 0.44
L1YF02310A	E2 O/S Pellet Bin Filter	VOC PM ₁₀	(8) 0.39	(8) 0.42
L1YF02310D	E2 Granular Feed Bin Filter	VOC PM ₁₀	(8) 0.43	(8) 1.88

L1BF25040	E4 Feed Bin Filter	VOC PM ₁₀	(8) 0.43	(8) 1.65
L1BF24157	E3 Masterblend Resin Bin Filter	VOC PM ₁₀	(8) 0.53	(8) 0.15
L1BF24001	E3 Feed Bin Filter	VOC PM ₁₀	(8) 0.43	(8) 0.60
L1BF24002	E3 Feed Bin Filter	VOC PM ₁₀	(8) 0.43	(8) 0.59
L1BF24003	E3 Feed Bin Filter	VOC PM ₁₀	(8) 0.43	(8) 0.59
L1YF01328	E1 Feed Hopper Filter	VOC PM ₁₀	(8) 0.01	(8) 0.01
L1BF23127	E2 Feed Hopper Filter	VOC PM ₁₀	(8) 0.01	(8) 0.02
L1BF24010	E3 Feed Hopper Filter and M/B Conveyer Filter	VOC PM ₁₀	(8) 0.01	(8) 0.01
L1BF25034	E4 Resin Screw Conveyer and Feed Hopper Filter	VOC PM ₁₀	(8) 0.01	(8) 0.03
L1BF05123	RF-05123 Vent Filter	VOC PM ₁₀	(8) 0.05	(8) 0.21
L1BF05223	RF-05223 Vent Filter	VOC PM ₁₀	(8) 0.05	(8) 0.21
L1BF30108	Granular Weigh Bin Filter	VOC PM ₁₀	(8) 0.55	(8) 0.08
L1BF30109	Granular Weigh Bin Filter	VOC PM ₁₀	(8) 0.55	(8) 0.08
L1BF30110	Granular Weigh Bin Filter	VOC PM ₁₀	(8) 0.55	(8) 0.08

L1VD01427	E1 Pellet Pickup Hopper Vent	VOC PM ₁₀	(8) 0.01	(8) 0.01
L1VD02427	E2 O/S Pellet Pickup Hopper Vent	VOC PM ₁₀	(8) 0.01	(8) 0.01
L1BN24018	E3 Pellet Pickup Hopper Vent	VOC PM ₁₀	(8) 0.01	(8) 0.02
L1BF30208	Pellet Weigh Bin Filter	VOC PM ₁₀	(8) 0.27	(8) 0.03
L1BF30209	Pellet Weigh Bin Filter	VOC PM ₁₀	(8) 0.27	(8) 0.03
L1BF30210	Pellet Weigh Bin Filter	VOC PM ₁₀	(8) 0.27	(8) 0.03
L1BF30211	Pellet Weigh Bin Filter	VOC PM ₁₀	(8) 0.27	(8) 0.03
L1BF30123	Granule Blender Filter	VOC PM ₁₀	(8) 0.55	(8) 0.27
L1BF30124	Granule Blender Filter	VOC PM ₁₀	(8) 0.55	(8) 0.27
L1BF30125	Granule Blender Filter	VOC PM ₁₀	(8) 0.55	(8) 0.27
Additive	Pellet Blender PM ₁₀ Cap (9)	PM ₁₀	2.48	4.55
L1BF30126	O/S Pellet Blender Filter	VOC PM ₁₀	(8) (9)	(8) (9)
L1BF30223	Pellet Blender Filter	VOC PM ₁₀	(8) (9)	(8) (9)
L1BF30224	Pellet Blender Filter	VOC PM ₁₀	(8) (9)	(8) (9)

L1BF30225	Pellet Blender Filter	VOC PM ₁₀	(8) (9)	(8) (9)
L1BF30226	Pellet Blender Filter	VOC PM ₁₀	(8) (9)	(8) (9)
L1YF01416A	Pellet Blender 1A Filter	VOC PM ₁₀	(8) (9)	(8) (9)
L1YF01416B	Pellet Blender 1B Filter	VOC PM ₁₀	(8) (9)	(8) (9)
L1YF01416C	Pellet Blender 1C Filter	VOC PM ₁₀	(8) (9)	(8) (9)
L1YF02416A	Pellet Blender 2A Filter	VOC PM ₁₀	(8) (9)	(8) (9)
L1YF02416B	Pellet Blender 2B Filter	VOC PM ₁₀	(8) (9)	(8) (9)
L1YF03416A	Pellet Blender 3A Filter	VOC PM ₁₀	(8) (9)	(8) (9)
L1YF03416B	Pellet Blender 3B Filter	VOC PM ₁₀	(8) (9)	(8) (9)
L1YD01310	E1 Pellet Dryer Vent	VOC PM ₁₀	(8) 0.17	(8) 0.75
L1DR23117	E21 Pellet Dryer Vent	VOC PM ₁₀	(8) 0.51	(8) 2.25
L1DR24012	E3 Pellet Dryer Vent	VOC PM ₁₀	(8) 0.42	(8) 1.82
L1DR25010	E4 Pellet Dryer Vent	VOC PM ₁₀	(8) 0.42	(8) 1.82
L1BF33201	Pellet Receiver Filter (Tr2)	VOC PM ₁₀	(8) 0.20	(8) 0.87

L1BF33503	Scalperator Vent Filter (Tr2)	VOC PM ₁₀	(8) 0.37	(8) 1.61
L1CYV580J	Elutriator Cyclone Vent (Tr3)	VOC PM ₁₀	(8) 0.03	(8) 0.12
L1CL281JV1	Scalperator Cyclone Vent (Tr3)	VOC PM ₁₀	(8) 0.37	(8) 1.28
L1CL281JV2	Scalperator Cyclone Vent (Tr3)	VOC PM ₁₀	(8) 0.37	(8) 1.28
L1BF30127	Granule Filter Receiver	VOC PM ₁₀	(8) 0.34	(8) 0.45
L1BF30138	Common Filter Receiver (Tr1/Tr2)	VOC PM ₁₀	(8) 0.34	(8) 0.76
L1BF30227	Pellet Receiver Filter (Tr2)	VOC PM ₁₀	(8) 0.34	(8) 1.50
L1BF33101	Granule Receiver Filter (Tr1)	VOC PM ₁₀	(8) 0.40	(8) 0.53
L1BF37107	Pellet Receiver Filter (Tr2)	VOC PM ₁₀	(8) 0.15	(8) 0.66
L1ME33263	O/S Loading Cyclone (Tr1)	VOC PM ₁₀	(8) 0.05	(8) 0.03
L1BD15004	Pellet Pullback Receiver (Tr1)	VOC PM ₁₀	(8) 0.05	(8) 0.01
L1ANALYZER	LPE Analyzer Vents	voc	0.52	2.29
LDCOOLTWR	Cooling Tower (11)	VOC	0.37	1.63
L1FINBLDG1	E1/E2 Finishing Building fugitives (5)	VOC PM ₁₀	(8) 0.01	(8) 0.01
L1FINBLDG3	E3 Finishing Building fugitives (5)	VOC PM ₁₀	(8) 0.01	(8) 0.01

L1FINBLDG4	E4 Finishing Building fugitives (5)	VOC PM ₁₀	(8) 0.01	(8) 0.01
L1TKAST1A	Gasoline Storage Tank	VOC	65.21	0.61
L1TKAST1B	Diesel Storage Tank	VOC	0.26	0.01
LOAD8LDTOL	Toluene Loading	VOC	0.21	0.01
L1SF03539	Catalyst Loading Station Filter	VOC PM ₁₀	1.65 0.01	0.30 0.01
L1SF03540	Catalyst Loading Station Filter	VOC PM ₁₀	1.65 0.01	0.30 0.01
L1SF03541	Catalyst Loading Station Filter	VOC PM ₁₀	1.65 0.01	0.30 0.01
L1SF03542	Catalyst Loading Station Filter	VOC PM ₁₀	1.65 0.01	0.30 0.01
L1SF03543	Catalyst Loading Station Filter	VOC PM ₁₀	1.65 0.01	0.30 0.01
HDBF4406	Additive Feed Drum Bag Filter	PM ₁₀	0.01	0.01
HDBF4407	Additive Bag Dumping Bag Filter	PM ₁₀	0.16	0.01
HDBF4434	Extruder Building Bag Filter	PM ₁₀	0.02	0.01
HDBF4463	Repellet Hopper Bag Filter	PM ₁₀	0.02	0.01
HDBF4801	Hopper Car Loading Bag Filter	PM ₁₀ VOC	0.43 0.10	0.96 0.25
HDBF4802	Hopper Car Unloading Bag Filter	PM ₁₀	0.06	0.01

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

HDBLR3	Boiler No. 3	PM ₁₀ VOC NO _x SO ₂ CO	0.35 0.25 5.57 0.65 9.28	1.51 1.10 24.39 2.85 40.66
HDCATOX	Catalytic Oxidizer	PM ₁₀ VOC NO _x SO ₂ CO	0.02 2.22 0.43 0.04 0.06	0.06 6.43 1.23 0.10 0.17
HDCYS4402	Pellet Dryer Cyclone Vent	PM ₁₀ VOC	0.16 1.95	0.56 3.94
HDFINBLDG	Finishing Building	PM ₁₀ VOC	0.01 (12)	0.01 (12)
HDFLARE	HDPE Flare	VOC NO _x SO ₂ CO	14.11 3.37 0.22 17.18	44.98 7.62 0.03 38.81
HDOILWATER	Oil Water Separator	voc	0.51	2.19
HDPROCSEW	Process Sewer	voc	0.14	0.59
HDSAMSLRY	Slurry Sampling	voc	0.21	0.24
HDTK4702	Tank 4702	voc	0.52	1.50
HDTK4703	Tank 4703	voc	0.32	0.74
HDVVANALY	Analyzer Vents	voc	0.01	0.01
HDVVDM4401	Liquid Additive Melt Drum	voc	0.01	0.01
HDVVDM4402	Liquid Additive Hold Drum	VOC	0.01	0.01
HDTKV83011	Oily Water tank	voc	9.89	0.12

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

HDTK95050	Amine Storage Tank	VOC	0.03	0.01
HDTK6510	Amine Storage Tank	VOC	0.03	0.01
MBPPFUGEM	Plantwide Process Fugitives (5)	VOC	7.74	34.07
L1YF01313	E1 Talc Storage Bin Filter	PM ₁₀	0.16	0.01
L1BF13101	E1/E2 Scrap Recovery Vacuum Filter Receiver	PM ₁₀	0.01	0.01
L1BF13155	E1 Neutralizer Day Tank Filter	PM ₁₀	0.01	0.01
L1BF15102	Bulk Anti-Block Storage Bin Filter	PM ₁₀	0.11	0.01
L1BF23130	E2 Neutralizer Vacuum Filter Receiver	PM ₁₀	0.02	0.01
L1BF23182	E2 Talc Storage Bin Filter	PM ₁₀	0.23	0.08
L1BF24159	E3 Anti-Block Storage Bin Filter	PM ₁₀	0.23	0.01
L1BF25029	E3 Neutralizer Blender Filter	PM ₁₀	0.01	0.01
L1BF25031	E4 Additive Dump Tank Filter	PM ₁₀	0.19	0.01
L1BF25032	E4 Anti-Block Storage Bin Filter	PM ₁₀	0.29	0.01
L1BF25090	E4 Supersack vacuum Receiver Filter	PM ₁₀	0.02	0.01
L1BF25091	E4 Additive Blender Filter	PM ₁₀	0.40	0.01
L1BF25102	E4 Neutralizer Day Tank Filter	PM ₁₀	0.02	0.01

L1BFE1ADD1 E1 Common Additive Vent No.1 PM10 0.01 0.01 L1BFE2ADD2 E2 Common Additive Vent No.2 PM10 0.02 0.01 L1BFE2ADD3 E2 Common Additive Vent No.3 PM10 0.03 0.15 L1BFE4ADD1 E4 Common Additive Vent No.1 PM10 0.03 0.01 L1BFE4ADD2 E4 Common Additive Vent No.2 PM10 0.02 0.01 L1BN24155 E3MBAdditive Vacuum Filter PM10 0.01 0.01 L1ME23104F E2 Additive Dump Station Filter PM10 0.02 0.01 L1ME23104F E3 Master Blend Dump Station Filter PM10 0.19 0.04 L1ME23105 A/O Dump Hopper PM10 0.19 0.04 L1ME33155 A/O Dump Hopper PM10 0.01 0.01 HDT04781 O2 Analyzer Thermal Oxidizer VOC 0.01 0.01 L1ANA936 RX1 Recovery O2 VOC 0.01 0.03 L1TOA161 Butene Drier Outlet O2 VOC 0.01 0.01 01A34					
No.2 No.2 L1BFE2ADD3 E2 Common Additive Vent No.3 PM10 0.03 0.15 L1BFE4ADD1 E4 Common Additive Vent No.1 PM10 0.03 0.01 L1BFE4ADD2 E4 Common Additive Vent No.2 PM10 0.02 0.01 L1BN24155 E3MBAdditive Vacuum Filter PM10 0.01 0.01 L1ME23104F E2 Additive Dump Station Filter PM10 0.02 0.01 L1ME24167 E3 Master Blend Dump Station Station PM10 0.19 0.04 L1ME33155 A/O Dump Hopper PM10 0.01 0.01 HDT04781 O2 Analyzer Thermal Oxidizer VOC 0.01 0.01 L1ANA936 RX1 Recovery O2 VOC 0.01 0.03 L1TOA242 Ethylene Drier Outlet O2 VOC 0.01 0.03 L1TOA161 Butene Drier Outlet O2 VOC 0.01 0.03 01A341 Butene Bullet O2 Analyzer VOC 0.01 0.03 01A342 iC5 Bullet O2 Analyzer VOC 0.01 0.01	L1BFE1ADD1		PM ₁₀	0.01	0.01
No.3 No.1 0.03 0.01 L1BFE4ADD1 E4 Common Additive Vent No.1 PM10 0.03 0.01 L1BFE4ADD2 E4 Common Additive Vent No.2 PM10 0.02 0.01 L1BN24155 E3MBAdditive Vacuum Filter PM10 0.01 0.01 L1ME23104F E2 Additive Dump Station Filter PM10 0.02 0.01 L1ME24167 E3 Master Blend Dump Station Filter PM10 0.19 0.04 L1ME33155 A/O Dump Hopper PM10 0.01 0.01 HDT04781 O2 Analyzer Thermal Oxidizer VOC 0.01 0.01 L1ANA936 RX1 Recovery O2 VOC 0.01 0.03 L1T0A242 Ethylene Drier Outlet O2 VOC 0.01 0.03 L1T0A161 Butene Drier Outlet O2 VOC 0.01 0.01 01A341 Butene Bullet O2 Analyzer VOC 0.01 0.03 01A342 iC5 Bullet O2 Analyzer VOC 0.01 0.01	L1BFE2ADD2		PM ₁₀	0.02	0.01
No.1 Description No.2 0.01 L1BFE4ADD2 E4 Common Additive Vent No.2 PM10 0.02 0.01 L1BN24155 E3MBAdditive Vacuum Filter PM10 0.01 0.01 L1ME23104F E2 Additive Dump Station Filter PM10 0.02 0.01 L1ME24167 E3 Master Blend Dump Station PM10 0.19 0.04 L1ME33155 A/O Dump Hopper PM10 0.01 0.01 HDT04781 O2 Analyzer Thermal Oxidizer VOC 0.01 0.01 L1ANA936 RX1 Recovery O2 VOC 0.01 0.03 L1TOA242 Ethylene Drier Outlet O2 VOC 0.01 0.03 L1TOA161 Butene Drier Outlet O2 Analyzer VOC 0.01 0.03 01A341 Butene Bullet O2 Analyzer VOC 0.01 0.03 01A342 iC5 Bullet O2 Analyzer VOC 0.01 0.01	L1BFE2ADD3		PM ₁₀	0.03	0.15
No.2 Description No.0 No.0 L1BN24155 E3MBAdditive Vacuum Filter PM10 0.01 0.01 L1ME23104F E2 Additive Dump Station Filter PM10 0.02 0.01 L1ME24167 E3 Master Blend Dump Station PM10 0.19 0.04 L1ME33155 A/O Dump Hopper PM10 0.01 0.01 HDTO4781 O2 Analyzer Thermal Oxidizer VOC 0.01 0.01 L1ANA936 RX1 Recovery O2 VOC 0.01 0.01 L1TOA242 Ethylene Drier Outlet O2 VOC 0.01 0.03 L1TOA161 Butene Drier Outlet O2 Analyzer VOC 0.01 0.03 01A341 Butene Bullet O2 Analyzer VOC 0.01 0.03 01A342 iC5 Bullet O2 Analyzer VOC 0.01 0.01	L1BFE4ADD1		PM ₁₀	0.03	0.01
L1ME23104F E2 Additive Dump Station Filter PM ₁₀ 0.02 0.01 L1ME24167 E3 Master Blend Dump Station PM ₁₀ 0.19 0.04 L1ME33155 A/O Dump Hopper PM ₁₀ 0.01 0.01 HDTO4781 O2 Analyzer Thermal Oxidizer VOC 0.01 0.01 L1ANA936 RX1 Recovery O2 VOC 0.01 0.03 L1TOA242 Ethylene Drier Outlet O2 VOC 0.01 0.03 L1TOA161 Butene Drier Outlet O2 VOC 0.01 0.01 01A341 Butene Bullet O2 Analyzer VOC 0.01 0.03 01A342 iC5 Bullet O2 Analyzer VOC 0.01 0.01	L1BFE4ADD2		PM ₁₀	0.02	0.01
Filter O.19 L1ME24167 E3 Master Blend Dump Station PM10 0.19 0.04 L1ME33155 A/O Dump Hopper PM10 0.01 0.01 HDTO4781 O2 Analyzer Thermal Oxidizer VOC 0.01 0.01 L1ANA936 RX1 Recovery O2 VOC 0.01 0.01 L1TOA242 Ethylene Drier Outlet O2 VOC 0.01 0.03 L1TOA161 Butene Drier Outlet O2 VOC 0.01 0.01 01A341 Butene Bullet O2 Analyzer VOC 0.01 0.03 01A342 iC5 Bullet O2 Analyzer VOC 0.01 0.01	L1BN24155		PM ₁₀	0.01	0.01
Station Station O.01 O.01 L1ME33155 A/O Dump Hopper PM ₁₀ 0.01 0.01 HDTO4781 O2 Analyzer Thermal Oxidizer VOC 0.01 0.01 L1ANA936 RX1 Recovery O2 VOC 0.01 0.01 L1TOA242 Ethylene Drier Outlet O2 VOC 0.01 0.03 L1TOA161 Butene Drier Outlet O2 VOC 0.01 0.01 01A341 Butene Bullet O2 Analyzer VOC 0.01 0.03 01A342 iC5 Bullet O2 Analyzer VOC 0.01 0.01	L1ME23104F		PM ₁₀	0.02	0.01
HDTO4781 O2 Analyzer Thermal Oxidizer VOC 0.01 0.01 L1ANA936 RX1 Recovery O2 VOC 0.01 0.01 L1TOA242 Ethylene Drier Outlet O2 VOC 0.01 0.03 L1TOA161 Butene Drier Outlet O2 VOC 0.01 0.01 01A341 Butene Bullet O2 Analyzer VOC 0.01 0.03 01A342 iC5 Bullet O2 Analyzer VOC 0.01 0.01	L1ME24167	•	PM ₁₀	0.19	0.04
Oxidizer Oxidizer L1ANA936 RX1 Recovery O2 VOC 0.01 0.01 L1TOA242 Ethylene Drier Outlet O2 VOC 0.01 0.03 L1TOA161 Butene Drier Outlet O2 VOC 0.01 0.01 01A341 Butene Bullet O2 Analyzer VOC 0.01 0.03 01A342 iC5 Bullet O2 Analyzer VOC 0.01 0.01	L1ME33155	A/O Dump Hopper	PM ₁₀	0.01	0.01
L1TOA242 Ethylene Drier Outlet O2 VOC 0.01 0.03 L1TOA161 Butene Drier Outlet O2 VOC 0.01 0.01 01A341 Butene Bullet O2 Analyzer VOC 0.01 0.03 01A342 iC5 Bullet O2 Analyzer VOC 0.01 0.01	HDTO4781		VOC	0.01	0.01
L1TOA161 Butene Drier Outlet O2 VOC 0.01 0.01 01A341 Butene Bullet O2 Analyzer VOC 0.01 0.03 01A342 iC5 Bullet O2 Analyzer VOC 0.01 0.01	L1ANA936	RX1 Recovery O2	VOC	0.01	0.01
01A341 Butene Bullet O2 Analyzer VOC 0.01 0.03 01A342 iC5 Bullet O2 Analyzer VOC 0.01 0.01	L1TOA242	Ethylene Drier Outlet O2	VOC	0.01	0.03
01A342 iC5 Bullet O ₂ Analyzer VOC 0.01 0.01	L1TOA161	Butene Drier Outlet O ₂	VOC	0.01	0.01
	01A341	Butene Bullet O ₂ Analyzer	VOC	0.01	0.03
01A343 Hexene Bullet O ₂ Analyzer VOC 0.01 0.01	01A342	iC5 Bullet O ₂ Analyzer	VOC	0.01	0.01
	01A343	Hexene Bullet O ₂ Analyzer	VOC	0.01	0.01

05A938	RX2 Recovery Gas O ₂ Analyzer	VOC	0.01	0.03
04A916	RX1 Convey Gas O ₂ Analyzer	VOC	0.01	0.01
04A917	RX2 Convey Gas O ₂ Analyzer	VOC	0.01	0.01
Intermittent Short Term Flare Allowables [Product Transitions (Type I) and Reaction Terminations (Type Ii)]				
HDFLARE and LDFLARE	HDPE Flare and LPE Process Flare	VOC NO _x CO SO ₂ PM ₁₀	1369.94 90.82 653.97 3.84 0.02	
Planned MSS				
MAIN	See Attachment C	VOC (13) NO _x (13) CO (13) PM ₁₀ (13) H ₂ SO ₄ (13)	68.53 3.88 0.77 0.71 0.71	6.51 0.13 0.08 0.09 0.06
Permit by Rule (PBR) sources incorporated by reference. Sources remain authorized by the PBR(s) as listed below:				
53389				
L1VV06143	Catalyst Weigh Pot	HCI	0.03	0.13
L1SF60110	Catalyst Weigh Pot	HCI	0.03	0.13

- (1) Emission point identification either specific equipment designation or emission point number from a plot plan.
- (2) Specific point source names. For fugitive sources, use an area name or fugitive source name.
- (3) VOC volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1

NO_x - total oxides of nitrogen

SO₂ - sulfur dioxide

PM - particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5}

PM₁₀ - particulate matter equal to or less than 10 microns in diameter PM_{2.5} - particulate matter equal to or less than 2.5 microns in diameter

CO - carbon monoxide HCl - hydrogen chloride

H₂SO₄ - sulfuric acid

- (4) Compliance with annual emission limits (tons per year) is based on a 12-month rolling period.
- (5) Emission rate is an estimate and compliance is demonstrated by meeting the requirements of the applicable conditions and permit application representations.
- (6) The listed emission rates are the cap for VOC emissions from the group of emission points in the additive system. The sum of emissions from all of the emission points in this group shall not exceed the emission rate listed for the group.
- (7) The listed emission rates are the cap for VOC emissions from the group of emission points in the catalyst system. The sum of emissions from all of the emission points in this group shall not exceed the emission rate listed for the group.
- (8) The listed emission rates are the cap for residual VOC emissions from the group of emission points in the finishing and storage areas. The sum of emissions from all of the emission points in this group shall not exceed the emission rate listed for the group.
- (9) The listed emission rates are the cap for PM₁₀ emissions from the group of emission points in the pellet blender system. The sum of emissions from all of the emission points in this group shall not exceed the emission rate listed for the group.
- (10) Emissions may include other halogen anhydrides.
- (11) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.
- (12) Residual VOC emissions from the finishing building are included in the emissions at EPNs HDBF4801 and HDCYS4402.
- (13) Allowable emissions are the sum of the controlled and uncontrolled emissions associated with maintenance, startup, and shutdown activities shown on Attachments A, B, and C.

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Dated November 14, 2013