Emission Sources - Maximum Allowable Emission Rates

Permit Number 156571 and PSDTX1564

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, sources, and related activities. 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	
			lbs/hour	TPY (4)
633BLR001	LLDPE Boiler 1	VOC	1.87	8.20
		NO_X	5.21	-
		NO_X (MSS)	7.29	-
		NO_X Annual Cap	-	15.20
		CO	25.64	56.15
		SO_2	4.86	21.26
		PM	2.59	11.32
		PM_{10}	2.59	11.32
		$PM_{2.5}$	2.59	11.32
		H_2SO_4	0.15	0.65
		NH_3	1.56	6.82
633BLR002	LLDPE Boiler 2	VOC	1.87	8.20
		NO_X	5.21	-
		NO_X (MSS)	7.29	-
		NO_X Annual Cap	-	15.20
		CO	25.64	56.15
		SO_2	4.86	21.26
		PM	2.59	11.32
		PM_{10}	2.59	11.32
		$PM_{2.5}$	2.59	11.32
		H_2SO_4	0.15	0.65
		NH_3	1.56	6.82
635BLR001	HDPE Boiler 1	VOC	1.19	5.20
		NO_X	3.30	-
		NO_X (MSS)	4.62	-

Emission Sources - Maximum Allowable Emission Rates

		NOX Annual Cap	-	9.64
		CO	16.25	35.60
		SO_2	3.08	13.48
		PM	1.64	7.18
		PM_{10}	1.64	7.18
		$PM_{2.5}$	1.64	7.18
		H_2SO_4	0.09	0.41
		NH_3	0.99	4.32
635BLR002	HDPE Boiler 2	VOC	1.19	5.20
		NO_X	3.30	-
		NO_X (MSS)	4.62	-
		NOX Annual Cap	-	9.64
		CO	16.25	35.60
		SO_2	3.08	13.48
		PM	1.64	7.18
		PM_{10}	1.64	7.18
		$PM_{2.5}$	1.64	7.18
		H_2SO_4	0.09	0.41
		NH_3	0.99	4.32
633CTW001X	LLDPE Polymer Cooling Tower	VOC	96.08	42.08
		PM	1.44	6.31
		PM_{10}	1.12	4.90
		$PM_{2.5}$	<0.01	0.02
634CTW001	HDPE Polymer Cooling Tower	VOC	28.02	12.27
		PM	0.42	1.84
		PM_{10}	0.33	1.43
		$PM_{2.5}$	<0.01	<0.01
LOADING	Oligomer and Low Polymer TT/RC Loading	VOC	3.64	0.26
XXBH001X Project Number: 300126	XXBH001X Bag House	VOC	(6)	(6)
		PM	(6)	(6)
		PM_{10}	(6)	(6)

Emission Sources - Maximum Allowable Emission Rates

XXBH002X	Loading Station #1 Bag House	VOC	(6)	(6)
		PM	(6)	(6)
		PM_{10}	(6)	(6)
		$PM_{2.5}$	(6)	(6)
XXBH003X	XXBH003X Bag House	VOC	(6)	(6)
		PM	(6)	(6)
		PM_{10}	(6)	(6)
		$PM_{2.5}$	(6)	(6)
HOPLOAD1	LLDPE Hopper Car Loading Filter Vent	VOC	(6)	(6)
		PM	(6)	(6)
		PM_{10}	(6)	(6)
		$PM_{2.5}$	(6)	(6)
XXWS011L	LLDPE Truck Trans Loading Filter Vent 1	VOC	(6)	(6)
		PM	(6)	(6)
		PM_{10}	(6)	(6)
		$PM_{2.5}$	(6)	(6)
XXWS012L	LLDPE Truck Trans Loading Filter Vent 2	VOC	(6)	(6)
		PM	(6)	(6)
		PM_{10}	(6)	(6)
		$PM_{2.5}$	(6)	(6)
XXWS013	LLDPE Truck Trans Loading Filter Vent 3	VOC	(6)	(6)
		PM	(6)	(6)
		PM_{10}	(6)	(6)
		$PM_{2.5}$	(6)	(6)
XXWS014	LLDPE Truck Trans Loading Filter Vent 4	VOC	(6)	(6)
		PM	(6)	(6)
		PM_{10}	(6)	(6)
		$PM_{2.5}$	(6)	(6)
XXBH006	LLDPE Truck Loadout Silo Vent 1	VOC	(6)	(6)
		PM	(6)	(6)
		PM_{10}	(6)	(6)
		$PM_{2.5}$	(6)	(6)

Emission Sources - Maximum Allowable Emission Rates

XXBH007	LLDPE Truck Loadout Silo Vent 2	VOC	(6)	(6)
		PM	(6)	(6)
		PM_{10}	(6)	(6)
		$PM_{2.5}$	(6)	(6)
XXBH008	LLDPE Truck Loadout Silo Vent 3	VOC	(6)	(6)
		PM	(6)	(6)
		PM_{10}	(6)	(6)
		$PM_{2.5}$	(6)	(6)
XXBH009	LLDPE Truck Loadout Silo Vent 4	VOC	(6)	(6)
		PM	(6)	(6)
		PM_{10}	(6)	(6)
		$PM_{2.5}$	(6)	(6)
OSBLVNT1	LLDPE OSBL PE Vents CAP	VOC	(7)	(7)
		PM	3.17	8.90
		PM_{10}	3.17	8.90
		$PM_{2.5}$	0.25	0.71
XXBH004X	XXBH004X Bag House	VOC	(8)	(8)
		PM	(8)	(8)
		PM_{10}	(8)	(8)
		$PM_{2.5}$	(8)	(8)
XXBH005X	XXBH005X Bag House	VOC	(8)	(8)
		PM	(8)	(8)
		PM_{10}	(8)	(8)
		$PM_{2.5}$	(8)	(8)
HOPLOAD2	HDPE Hopper Car Loading Filter Vent	VOC	(8)	(8)
		PM	(8)	(8)
		PM_{10}	(8)	(8)
		$PM_{2.5}$	(8)	(8)
XXWS011H Project Number: 300126	HDPE Truck Trans Loading Filter Vent 1	VOC	(8)	(8)
		PM	(8)	(8)
		PM_{10}	(8)	(8)
		$PM_{2.5}$	(8)	(8)

Emission Sources - Maximum Allowable Emission Rates

XXWS012H	HDPE Truck Trans Loading Filter Vent 2	VOC	(8)	(8)
		PM	(8)	(8)
		PM_{10}	(8)	(8)
		$PM_{2.5}$	(8)	(8)
OSBLVNT2	HDPE OSBL PE Vents CAP	VOC	(9)	(9)
		PM	0.56	2.44
		PM_{10}	0.56	2.44
		$PM_{2.5}$	0.04	0.19
OSBLFUG1	LLDPE OSBL Fugitives (5)	VOC	1.48	6.49
		NH_3	0.03	0.12
OSBLFUG2	HDPE OSBL Fugitives (5)	VOC	1.48	6.49
		NH_3	0.03	0.12
633TK007	1-Hexene Feed Tank	VOC	0.30	0.82
TK-DIESEL1	Diesel Tank	VOC	0.10	< 0.01
TK-DIESEL2	Diesel Tank	VOC	0.10	< 0.01
TK-DIESEL3	Diesel Tank	VOC	0.10	< 0.01
TK-DIESEL4	Diesel Tank	VOC	0.10	< 0.01
TK-DIESEL5	Diesel Tank	VOC	0.10	< 0.01
TK-DIESEL6	Diesel Tank	VOC	0.10	< 0.01
NH3SBR1	Aqueous Ammonia Tank	NH_3	< 0.01	< 0.01
NH3SBR2	Aqueous Ammonia Tank	NH_3	< 0.01	< 0.01
TKNH3MC	Aqueous Ammonia Tank MSS Controlled	NH_3	1.46	< 0.01
TKNH3MUC	Aqueous Ammonia Tank MSS Uncontrolled	NH_3	0.32	0.02
629FLR001	LLDPE HP Elevated Flare (Routine)	VOC	504.96	(10)
		NO_X	58.78	(10)
		CO	302.80	(10)
		SO_2	6.72	(10)
629FLR001	LLDPE HP Elevated Flare (MSS)	VOC	1,267.87	(10)
		NO_X	116.67	(10)
		CO	601.02	(10)
		SO_2	11.18	(10)

Emission Sources - Maximum Allowable Emission Rates

	(Shakedown)	NO_X	(11)	(11)
		CO	(11)	(11)
		SO_2	(11)	(11)
629FLR002	LLDPE LP Elevated Flare (Routine)	VOC	504.96	(10)
		NO_X	58.78	(10)
		CO	302.80	(10)
		SO_2	6.72	(10)
629FLR002	LLDPE LP Elevated Flare (MSS)	VOC	1,267.87	(10)
		NO_X	116.67	(10)
		CO	601.02	(10)
		SO_2	11.18	(10)
629FLR002	LLDPE LP Elevated Flare (Shakedown)	VOC	(11)	(11)
		NO_X	(11)	(11)
		CO	(11)	(11)
		SO_2	(11)	(11)
629FLRCAP	LLDPE HP/LP Elevated Flare (Routine and MSS)	VOC	-	243.81
		NO_X	-	27.42
		CO	-	141.28
		SO_2	-	3.19
629FLRCAP	LLDPE HP/LP Elevated Flare (Shakedown)	VOC	-	450.87
		NO_X	-	50.03
		CO	-	257.71
		SO_2	-	5.75
636FLR001	HDPE HP Elevated Flare (Routine)	VOC	516.78	(12)
		NO_X	57.64	(12)
		CO	296.94	(12)
		SO_2	6.26	(12)
636FLR001	HDPE HP Elevated Flare (MSS)	VOC	1,143.19	(12)
		NO_X	109.59	(12)
		CO	564.53	(12)
		SO_2	9.96	(12)
636FLR001	HDPE HP Elevated Flare (Shakedown)	VOC	(13)	(13)

Emission Sources - Maximum Allowable Emission Rates

		CO	(13)	(13)
		SO_2	(13)	(13)
636FLR002	HDPE LP Elevated Flare (Routine)	VOC	516.78	(12)
		NO_X	57.64	(12)
		CO	296.94	(12)
		SO_2	6.26	(12)
636FLR002	HDPE LP Elevated Flare (MSS)	VOC	1,143.19	(12)
		NO_X	109.59	(12)
		CO	564.53	(12)
		SO_2	9.96	(12)
636FLR002	HDPE LP Elevated Flare (Shakedown)	VOC	(13)	(13)
		NO_X	(13)	(13)
		CO	(13)	(13)
		SO_2	(13)	(13)
636FLRCAP	HDPE HP/LP Elevated Flare (Routine and MSS)	VOC	-	249.47
		NO_X	-	19.47
		CO	-	100.28
		SO_2	-	1.46
636FLRCAP	HDPE HP/LP Elevated Flare (Shakedown)	VOC	-	461.35
		NO_X	-	35.31
		CO	-	181.88
		SO_2	-	2.55
Z-491	Stabilizer Mixer Dust Collector	VOC	(14)	(14)
		PM	(14)	(14)
		PM_{10}	(14)	(14)
		$PM_{2.5}$	(14)	(14)
M-407	Pellet Spin Drier Blower Vent	VOC	(14)	(14)
		PM	(14)	(14)
		PM_{10}	(14)	(14)
		$PM_{2.5}$	(14)	(14)
C-411	Stabilizer Transfer Blower A through G	VOC	(14)	(14)
		PM	(14)	(14)

Emission Sources - Maximum Allowable Emission Rates

		$PM_{2.5}$	(14)	(14)
629FIL9005	Elutriator	VOC	(14)	(14)
		PM	(14)	(14)
		PM_{10}	(14)	(14)
		$PM_{2.5}$	(14)	(14)
629FIL9006	Elutriator	VOC	(14)	(14)
		PM	(14)	(14)
		PM_{10}	(14)	(14)
		$PM_{2.5}$	(14)	(14)
629FIL9007	Elutriator	VOC	(14)	(14)
		PM	(14)	(14)
		PM_{10}	(14)	(14)
		$PM_{2.5}$	(14)	(14)
629S9001	Blending Silo	VOC	(14)	(14)
		PM	(14)	(14)
		PM_{10}	(14)	(14)
		$PM_{2.5}$	(14)	(14)
629S9002	Blending Silo	VOC	(14)	(14)
		PM	(14)	(14)
		PM_{10}	(14)	(14)
		$PM_{2.5}$	(14)	(14)
629S9003	Blending Silo	VOC	(14)	(14)
		PM	(14)	(14)
		PM_{10}	(14)	(14)
		$PM_{2.5}$	(14)	(14)
629S9004	Blending Silo	VOC	(14)	(14)
		PM	(14)	(14)
		PM_{10}	(14)	(14)
		$PM_{2.5}$	(14)	(14)
HDPEVNT	HDPE Vents CAP	VOC	11.02	44.09
		PM	3.76	7.54
		PM_{10}	3.76	7.54

Emission Sources - Maximum Allowable Emission Rates

HDPEFUG	HDPE Fugitives (5)	VOC	3.29	14.41
629FLR003	LLDPE Plant Thermal Oxidizer #1	VOC	(15)	(15)
		NO_X	(15)	(15)
		CO	(15)	(15)
		SO_2	(15)	(15)
		PM	(15)	(15)
		PM_{10}	(15)	(15)
		$PM_{2.5}$	(15)	(15)
629FLR004	LLDPE Plant Thermal Oxidizer #2	VOC	(15)	(15)
		NO_X	(15)	(15)
		CO	(15)	(15)
		SO_2	(15)	(15)
		PM	(15)	(15)
		PM_{10}	(15)	(15)
		$PM_{2.5}$	(15)	(15)
629TOCAP	LLDPE Thermal Oxidizer CAP	VOC	64.39	103.42
		NO_X	12.08	52.04
		CO	25.49	54.91
		SO_2	5.37	23.16
		PM	2.57	11.08
		PM_{10}	2.57	11.08
		$PM_{2.5}$	2.57	11.08
636HTR001	HDPE Plant Thermal Oxidizer #1	VOC	(16)	(16)
		NO_X	(16)	(16)
		CO	(16)	(16)
		SO_2	(16)	(16)
		PM	(16)	(16)
		PM_{10}	(16)	(16)
		$PM_{2.5}$	(16)	(16)
636HTR002	HDPE Plant Thermal Oxidizer #2	VOC	(16)	(16)
		NO_X	(16)	(16)
		CO	(16)	(16)

Emission Sources - Maximum Allowable Emission Rates

		PM	(16)	(16)
		PM_{10}	(16)	(16)
		$PM_{2.5}$	(16)	(16)
636TOCAP	HDPE Thermal Oxidizer CAP	VOC	11.85	44.82
		NO_X	9.05	38.77
		CO	19.09	40.90
		SO_2	4.03	17.25
		PM	1.93	8.25
		PM_{10}	1.93	8.25
		$PM_{2.5}$	1.93	8.25
U1-Y-7010	U1 Pellet Dryer Vent	VOC	(17)	(17)
		PM	(17)	(17)
		PM_{10}	(17)	(17)
		$PM_{2.5}$	(17)	(17)
U1-Y-6231	U1 Bag Station Dump Hopper Vent 1	PM	(17)	(17)
		PM_{10}	(17)	(17)
		$PM_{2.5}$	(17)	(17)
U1-Y-6232	U1 Bag Station Dump Hopper Vent 2	PM	(17)	(17)
		PM_{10}	(17)	(17)
		$PM_{2.5}$	(17)	(17)
U1-Y-6233	U1 Bag Station Dump Hopper Vent 3	PM	(17)	(17)
		PM_{10}	(17)	(17)
		$PM_{2.5}$	(17)	(17)
U1-Y-6234	U1 Bag Station Dump Hopper Vent 4	PM	(17)	(17)
		PM_{10}	(17)	(17)
		$PM_{2.5}$	(17)	(17)
U1-Y-6235	U1 Bag Station Dump Hopper Vent 5	PM	(17)	(17)
		PM_{10}	(17)	(17)
		$PM_{2.5}$	(17)	(17)
U1-Y-6251	U1 Talc Surge Bin Filter Vent	PM	(17)	(17)
		PM_{10}	(17)	(17)
		$PM_{2.5}$	(17)	(17)

Emission Sources - Maximum Allowable Emission Rates

U1-Y-6260	U1 Mixer Vent Filter Vent	PM	(17)	(17)
		PM_{10}	(17)	(17)
		$PM_{2.5}$	(17)	(17)
U1-C-4040	U1 Catalyst Vent Filter	PM	(17)	(17)
		PM_{10}	(17)	(17)
		$PM_{2.5}$	(17)	(17)
U2-Y-7010	U2 Pellet Dryer Vent	VOC	(17)	(17)
		PM	(17)	(17)
		PM_{10}	(17)	(17)
		$PM_{2.5}$	(17)	(17)
U2-Y-6286	U2 Additive Surge Bin Filter Vent 1	PM	(17)	(17)
		PM_{10}	(17)	(17)
		$PM_{2.5}$	(17)	(17)
U2-Y-6287	U2 Additive Surge Bin Filter Vent 2	PM	(17)	(17)
		PM_{10}	(17)	(17)
		$PM_{2.5}$	(17)	(17)
U2-Y-6288	U2 Additive Surge Bin Filter Vent 3	PM	(17)	(17)
		PM_{10}	(17)	(17)
		$PM_{2.5}$	(17)	(17)
U2-Y-6289	U2 Additive Surge Bin Filter Vent 4	PM	(17)	(17)
		PM_{10}	(17)	(17)
		$PM_{2.5}$	(17)	(17)
U2-Y-6290	U2 Additive Surge Bin Filter Vent 5	PM	(17)	(17)
		PM_{10}	(17)	(17)
		$PM_{2.5}$	(17)	(17)
U2-Y-6251	U2 Talc Surge Bin Filter Vent	PM	(17)	(17)
		PM_{10}	(17)	(17)
		$PM_{2.5}$	(17)	(17)
U2-Y-6260	U2 Mixer Vent Filter Vent	PM	(17)	(17)
		PM_{10}	(17)	(17)
		$PM_{2.5}$	(17)	(17)
U2-Y-4901	U2 Catalyst Vent Filter	PM	(17)	(17)

Emission Sources - Maximum Allowable Emission Rates

		$PM_{2.5}$	(17)	(17)
U3-Y-7310	U3 Pellet Dryer Vent	VOC	(17)	(17)
		PM	(17)	(17)
		PM_{10}	(17)	(17)
		$PM_{2.5}$	(17)	(17)
U3-Y-6586	U3 Additive Surge Bin Filter Vent 1	PM	(17)	(17)
		PM_{10}	(17)	(17)
		$PM_{2.5}$	(17)	(17)
U3-Y-6587	U3 Additive Surge Bin Filter Vent 2	PM	(17)	(17)
		PM_{10}	(17)	(17)
		$PM_{2.5}$	(17)	(17)
U3-Y-6588	U3 Additive Surge Bin Filter Vent 3	PM	(17)	(17)
		PM_{10}	(17)	(17)
		$PM_{2.5}$	(17)	(17)
U3-Y-6589	U3 Additive Surge Bin Filter Vent 4	PM	(17)	(17)
		PM_{10}	(17)	(17)
		$PM_{2.5}$	(17)	(17)
U3-Y-6590	U3 Additive Surge Bin Filter Vent 5	PM	(17)	(17)
		PM_{10}	(17)	(17)
		$PM_{2.5}$	(17)	(17)
U3-Y-6551	U3 Talc Surge Bin Filter Vent	PM	(17)	(17)
		PM_{10}	(17)	(17)
		$PM_{2.5}$	(17)	(17)
U3-Y-6560	U3 Mixer Vent Filter Vent	PM	(17)	(17)
		PM_{10}	(17)	(17)
		$PM_{2.5}$	(17)	(17)
U3-Y-4902	U3 Catalyst Vent Filter	PM	(17)	(17)
		PM_{10}	(17)	(17)
		$PM_{2.5}$	(17)	(17)
LLDPEVNT	LLDPE Vents CAP	VOC	27.04	107.47
		PM	3.45	2.81
		PM_{10}	3.45	2.81

Emission Sources - Maximum Allowable Emission Rates

LLDPEFUG	LLDPE Fugitives (5)	VOC	9.62	42.12
GEN1	Emergency Generator 1	VOC	0.84	0.04
		NO_X	2.96	0.15
		CO	15.44	0.77
		SO_2	0.03	<0.01
		PM	0.13	<0.01
		PM_{10}	0.13	<0.01
		$PM_{2.5}$	0.13	<0.01
GEN2	Emergency Generator 2	VOC	0.84	0.04
		NO_X	2.96	0.15
		CO	15.44	0.77
		SO_2	0.03	<0.01
		PM	0.13	<0.01
		PM_{10}	0.13	<0.01
		$PM_{2.5}$	0.13	<0.01
GEN3	Emergency Generator 3	VOC	0.84	0.04
		NO_X	2.96	0.15
		CO	15.44	0.77
		SO_2	0.03	<0.01
		PM	0.13	<0.01
		PM_{10}	0.13	<0.01
		$PM_{2.5}$	0.13	<0.01
GEN4	Emergency Generator 4	VOC	0.84	0.04
		NO_X	2.96	0.15
		CO	15.44	0.77
		SO_2	0.03	<0.01
		PM	0.13	<0.01
		PM_{10}	0.13	<0.01
		$PM_{2.5}$	0.13	<0.01
FWP1	Firewater Pump 1	VOC	16.85	0.84
		NO_X	16.85	0.84
		CO	9.21	0.46

Emission Sources - Maximum Allowable Emission Rates

		PM	0.53	0.03
		PM_{10}	0.53	0.03
		$PM_{2.5}$	0.53	0.03
FWP2	Firewater Pump 2	VOC	16.85	0.84
		NO_X	16.85	0.84
		CO	9.21	0.46
		SO_2	0.02	<0.01
		PM	0.53	0.03
		PM_{10}	0.53	0.03
		$PM_{2.5}$	0.53	0.03
TEMPCTRL	MSS Temporary Devices	VOC	2.19	0.01
		NO_X	1.96	0.19
		CO	1.65	0.16
		SO_2	0.28	0.03
		PM	0.15	0.01
		PM_{10}	0.15	0.01
		$PM_{2.5}$	0.15	0.01
TKMSS	Tank MSS	VOC	16.13	1.55
UNITSD	Shutdown Equipment Clearing	VOC	589.72	2.77
ROUMSS	Routine Equipment Clearing	VOC	162.87	1.31
VACTRUCK	Vacuum Truck MSS	VOC	0.01	<0.01
SOLIDSMSS	Solids Handling MSS	PM	<0.01	<0.01
		PM_{10}	<0.01	<0.01
		$PM_{2.5}$	<0.01	<0.01
ILEMSS	Inherently Low Emitting Activities	VOC	7.33	1.60
FRACTK	Frac Tank MSS	VOC	0.01	0.07
637WSAC001	Wet Surface Air Cooler	PM	<0.01	<0.01
		PM_{10}	<0.01	<0.01
		$PM_{2.5}$	<0.01	<0.01
WWTP	Wastewater Treatment Plant	VOC	0.37	1.62

Emission Sources - Maximum Allowable Emission Rates

(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) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
NO_x - total oxides of nitrogen
SO_2 - sulfur dioxide
PM - total particulate matter, suspended in the atmosphere, including PM_{10} and $PM_{2.5}$, as represented
PM_{10} - total particulate matter equal to or less than 10 microns in diameter, including $PM_{2.5}$, as represented
$PM_{2.5}$ - particulate matter equal to or less than 2.5 microns in diameter
CO - carbon monoxide
H_2SO_4 - sulfuric acid mist
NH_3 - ammonia
(4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.
(5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.
(6) Included in LLDPE OSBL PE Vents cap (EPN OSBLVNT1)
(7) VOC emission rates included in LLDPE OSBL Vents included in EPN LLDPEVENT
(8) Included in HDPE OSBL PE Vents cap (EPN OSBLVNT2)
(9) VOC emission rates included in HDPE OSBL Vents included in EPN HDPEVENT
(10) Included in flare cap (EPN 629FLRCAP)
(11) Included in flare cap (EPN 629FLRCAP). Hourly shakedown emissions are included in the routine-MSS scenario.
(12) Included in flare cap (EPN 636FLRCAP
(13) Included in flare cap (EPN 636FLRCAP). Hourly shakedown emissions are included in the routine-MSS scenario.
(14) Included in HDPE PE Vents cap (EPN HDPEVNT)
(15) Included in thermal oxidizer cap (EPN 629TOCAP)
(16) Included in thermal oxidizer cap (EPN 636TOCAP)
(17) Included in LLDPE PE Vents cap (EPN LLDPEVNT)

Date: September 11, 2020

Emission Sources - Maximum Allowable Emission Rates

Permit Number GHGPSDTX195

This table lists the maximum allowable emission rates of greenhouse gas (GHG) emissions, as defined in Title 30 Texas Administrative Code § 101.1, for all sources of GHG air contaminants on the applicant's property that are authorized 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, sources, and related activities. Any proposed increase in emission rates may require an application for a modification of the facilities authorized by this permit.

Air Contaminants Data

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates
			TPY (4)
633BLR001	LLDPE Boiler 1	CO_2 (5)	192,885.72
		CH_4 (5)	10.05
		N_2O (5)	2.01
		CO_2e	193,736.27
633BLR002	LLDPE Boiler 2	CO_2 (5)	192,885.72
		CH_4 (5)	10.05
		N_2O (5)	2.01
		CO_2e	193,736.27
635BLR001	HDPE Boiler 1	CO_2 (5)	122,290.66
		CH_4 (5)	6.37
		N_2O (5)	1.27
		CO_2e	122,829.91
635BLR001	HDPE Boiler 2	CO_2 (5)	122,290.66
		CH_4 (5)	6.37
		N_2O (5)	1.27
		CO_2e	122,829.91
629FLRCAP	LLDPE HP/LP Elevated Flare Routine and MSS	CO_2 (5)	46,228.53
		CH_4 (5)	28.64
		N_2O (5)	0.46
		CO_2e	47,082.27
636FLRCAP	HDPE HP/LP Elevated Flare Routine and MSS	CO_2 (5)	68,005.22
		CH_4 (5)	42.13
		N_2O (5)	0.68
		CO_2e	69,261.12
629TOCAP	Thermal Oxidizer CAP	CO_2 (5)	199,836.33
		CH_4 (5)	10.16
		N_2O (5)	2.03
		CO_2e	200,695.96

Emission Sources - Maximum Allowable Emission Rates

636TOCAP	HDPE Thermal Oxidizer CAP	CO_2 (5)	144,027.13
		CH_4 (5)	7.32
		N_2O (5)	1.46
		CO_2e	144,646.69
OSBLFUG1 OSBLFUG2 HDPEFUG LLDPEFUG	Fugitives	CH_4 (5)	0.63
		CO_2e	15.81
GEN1 GEN2 GEN3 GEN4 FWP1 FWP2	Emergency Generator and Firewater Pump CAP	CO_2 (5)	334.15
		CH_4 (5)	0.01
		N_2O (5)	<0.01
		CO_2e	335.30
TEMPCTRL	Tank MSS Cap	CO_2 (5)	124.89
		CH_4 (5)	<0.01
		N_2O (5)	<0.01
		CO_2e	125.43

(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) CO_2 - carbon dioxide
N_2O - nitrous oxide
CH_4 - methane
HFCs - hydrofluorocarbons
PFCs - perfluorocarbons
SF_6 - sulfur hexafluoride
CO_2e - carbon dioxide equivalents based on the following Global Warming Potentials (1/2015):
CO_2 (1), N_2O (298), CH_4(25), SF_6 (22,800), HFC (various), PFC (various)
(4) Compliance with annual emission limits (tons per year) is based on a 12-month rolling period. These rates include emissions from maintenance, startup, and shutdown.
(5) Emission rate is given for informational purposes only and does not constitute enforceable limit.

Date: September 11, 2020