

Emission Sources - Maximum Allowable Emission Rates

Permit Numbers 16963 and PSDTX1478

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)
LAB	Lab	VOC	0.02	0.01
POAPIPND	API Pond	NH ₃	0.06	0.27
		VOC	0.11	0.46
POLP2FL/PO002FL	Low-Pressure Flares	NH ₃	0.01	0.04
		CO	4.45	19.09
		H ₂ S	<0.01	<0.01
		NO _x	0.52	2.24
		SO ₂	0.09	0.39
		VOC	1.49	3.83
PO001FL	High-Pressure Polyolefin Flare	NH ₃	0.05	0.07
		CO	14.91	59.31
		H ₂ S	<0.01	<0.01
		NO _x	7.49	29.75
		SO ₂	0.02	0.10
		VOC	26.07	95.14
PP12100TK	Tank No. 2100	VOC	10.83	0.05
PP12204TK	Tank No. 2204	VOC	5.06	0.35
PP2001FE	Process Fugitives (5)	NH ₃	0.01	<0.01
		VOC	9.57	38.98
PP2001LR	Loading/Unloading – Truck, Rail and Drum	VOC	6.14	3.37
PP2003FE	Additive Transfer	PM	0.36	0.43
		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
PP2F4902VN	Additive Transfer	PM	0.03	<0.01

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		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
PP4026CT	Cooling Tower	VOC	0.76	1.58
		PM	1.35	5.92
		PM ₁₀	1.35	5.92
		PM _{2.5}	1.35	5.92
MSS-AAA	Attachment A Activities (6)	VOC	4.34	0.28
MSS ABA	Attachment B Activities (6)	VOC	13.90	0.16
MSS-EO	Equipment/Vessel Opening	VOC	5.79	0.29
MSS-TO	Tank Opening	VOC	5.59	<0.01
MSS-VL	Vacuum Truck Loading	VOC	0.16	<0.01
MSS-WW	Water Washing	VOC	3.42	0.01
MSS-EM	Extruder Maintenance	VOC	0.07	<0.01
MSS –BM	Bag Filter Maintenance	PM	2.06	0.03
		PM ₁₀	0.31	<0.01
		PM _{2.5}	0.10	<0.01
Line 3				
BOILERST3	2 nd 300 psi Boiler	VOC	0.02	0.09
		NO _x	1.36	5.94
		CO	1.45	6.36
		SO ₂	0.02	0.10
		PM	0.30	1.30
		PM ₁₀	0.30	1.30
		PM _{2.5}	0.30	1.30
		NH ₃	0.18	1.27
PPRTO	Regenerative Thermal Oxidizer	VOC	1.09	4.76
		NO _x	0.41	1.47

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		CO	0.34	1.20
		SO ₂	0.05	0.19
		PM	0.03	0.10
		PM ₁₀	0.03	0.10
		PM _{2.5}	0.03	0.10
PP1001LR	Spent Xylene Loading	VOC	0.27	<0.01
PP12101TK	Xylene Storage TK-2101	VOC	8.62	<0.01
PP12203TK	IPA Storage TK-2203	VOC	15.20	<0.01
PP3001FE	Process Fugitives (5)	VOC	4.82	21.10
PP31465VN	Additive Vent for BF-1465	PM	0.23	1.00
		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
PP31477VN	Additive Vent for BF-1477	PM	0.03	0.13
		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
PP31478VN	Feeder Vent for Additive Feeder	PM	0.03	0.14
		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
PP31487VN	Additive Bin Filter Vent BF-1487	PM	0.03	0.13
		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
PPMU1862AVN	C-1862A Suction Filter Vent	PM	0.27	1.17
		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
PPMU1866VN	C-1866 Suction Filter Vent	PM	0.27	1.17
		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
PPMU1833VN	C-1830A Suction Filter Vent	PM	0.27	1.17

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		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
PPMU1864AVN	C-1864A Suction Filter Vent	PM	0.13	0.57
		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
PPMU1868VN	Product Storage (V-1868A/B)	PM	<0.01	0.03
		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
PP31835VN	Packaging Warehouse, BF-1835 Vent	PM	0.31	1.34
		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
PKGWH	Packaging Warehouse Cyclones	PM	0.45	1.96
		PM ₁₀	<0.01	0.01
		PM _{2.5}	<0.01	0.01
PP31865VN	Intermediate and Product Storage	PM	0.04	0.08
		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
Line 4				
PP44401AVN	Additive Bag Filter F-4401A	PM	0.10	0.46
		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
PP4001FE	Process Fugitives (5)	VOC	3.02	13.20
PP4570VN	Pellet Blender BL-570	PM	0.04	0.12
		PM ₁₀	0.03	0.08
		PM _{2.5}	0.03	0.08
PPMU573VN	C-571 Suction Filter Vent	PM	0.27	1.20
		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
PP4ME493VN	C-561-2 Suction Filter Vent	PM	0.20	0.86

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		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
PP4C624VN	BF-612 Load Out Filter Vent	PM	0.34	1.50
		PM ₁₀	<0.01	0.01
		PM _{2.5}	<0.01	0.01
Refinery Grade Propylene (RGP) Plant				
RGPBOILER1 and RGPBOILER2	RGP Boiler 1 and Boiler 2 combined emissions	VOC	0.06	0.26
		NO _x	1.12	4.88
		CO	4.06	17.78
		SO ₂	0.07	0.29
		PM	0.83	3.56
		PM ₁₀	0.83	3.56
		PM _{2.5}	0.83	3.56
		NH ₃	0.49	3.56
EY001CT	RGP Cooling Tower	VOC	0.80	1.66
		PM	0.29	1.25
		PM ₁₀	0.19	0.81
		PM _{2.5}	0.01	0.06
EYPRCSFL	Air Assist Flare	VOC	4.81	3.66
		CO	9.07	17.19
		NO _x	2.27	4.31
		SO ₂	0.15	1.00
EYPRCSFL-MSS	Depressure Vessels to Flare	VOC	77.67	1.87
		CO	36.81	0.88
		NO _x	9.24	0.22
		SO ₂	0.42	0.01
EY901FE	Fract Area Fugitives (5)	VOC	13.50	49.00
UP011FE	Flare Area Fugitives (5)	VOC	0.80	1.80

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BPITFE	Brine Pit Fugitives	VOC	1.40	5.00
BPITC4FE	Butane Brine Pit Fugitives	VOC	0.35	1.20
EYSTOWELFE	Storage Well Fugitives (5)	VOC	0.03	0.15
UTILFE	Utilities Area Fugitives (5)	VOC	3.10	10.00
LOADFUG	Transfer Operations Fugitives	VOC	49.86	29.37
MSSWEST	RGP MSS Operations	VOC	102.00	0.52
		PM	<0.01	<0.01
		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01

(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
- SO₂ - sulfur dioxide
- PM - total particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5}, as represented
- PM₁₀ - 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
- NH₃ - ammonia
- H₂S - hydrogen sulfide

(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) Represents activities on the East Plant of the site.

Date: November 22, 2016