

Emission Sources - Maximum Allowable Emission Rates

Permit Number 20204

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 Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
PL-6A	VA South Holdup Tank	VOC	3.27	0.10
PL-6F	D-Unit CO Trailer Sampling	CO	10.00	0.50
PL-6H	D-Unit Waste Pellet Dumpster	VOC	1.06	4.65
		CO	<0.01	<0.01
		Acetone	0.25	1.10
		Ethylene (6)	0.41	-
		Propane (6)	0.05	-
		Propylene (6)	0.04	-
		VA (6)	0.49	-
		nBA (6)	0.05	-
PL-6R	D Unit Analyzer Vents	VOC	0.12	<0.01
		CO	<0.01	<0.01
		Acetone	0.01	<0.01
PL-7B	550-HP Compressor	NO _x	26.40	-
		CO	3.21	-
		VOC	1.00	-
		SO ₂	<0.01	-
		PM	0.40	-
		PM ₁₀	0.40	-
		PM _{2.5}	0.40	-
PL-7C	800-HP Compressor	NO _x	36.30	-
		CO	4.42	-
		VOC	1.37	-

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	SO ₂	0.01	-	
		PM	0.55	-
		PM ₁₀	0.55	-
		PM _{2.5}	0.55	-
PL-7D	550-HP Compressor	NO _x	24.75	-
		CO	3.01	-
		VOC	0.94	-
		SO ₂	<0.01	-
		PM	0.38	-
		PM ₁₀	0.38	-
		PM _{2.5}	0.38	-
PL-7E	550-HP Compressor	NO _x	24.75	-
		CO	3.01	-
		VOC	0.94	-
		SO ₂	<0.01	-
		PM	0.38	-
		PM ₁₀	0.38	-
		PM _{2.5}	0.38	-
PL-7F	800-HP Compressor	NO _x	36.30	-
		CO	4.42	-
		VOC	1.37	-
		SO ₂	0.01	-
		PM	0.55	-

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PL-7G	800-HP Compressor	PM ₁₀	0.55	-
		PM _{2.5}	0.55	-
		NO _x	36.30	-
		CO	4.42	-
		VOC	1.37	-
		SO ₂	0.01	-
		PM	0.55	-
PL-7H	800-HP Compressor	PM ₁₀	0.55	-
		PM _{2.5}	0.55	-
		NO _x	36.30	-
		CO	4.42	-
		VOC	1.37	-
		SO ₂	0.01	-
		PM	0.55	-
PL-7B, PL-7C, PL-7D, PL-7E, PL-7F, PL-7G, and PL-7H	Combined Compressors	PM ₁₀	0.55	-
		PM _{2.5}	0.55	-
		NO _x	-	503.25
		CO	-	61.28
		VOC	-	19.05
		SO ₂	-	0.09
		PM	-	7.67
		PM ₁₀	-	7.67
		PM _{2.5}	-	7.67

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PL-7I	D-Unit CMIR	VOC	0.01	0.19
		CO	<0.01	<0.01
		Acetone	<0.01	0.04
		VA (6)	0.01	-
PL-7J	D-Unit Screen Pack Changes (MSS)	VOC	0.06	0.04
		CO	<0.01	<0.01
		Acetone	0.01	0.01
		Ethylene (6)	0.02	-
		VA (6)	0.06	-
		nBA (6)	0.02	-
PL-7M	D-Unit Wax Drums	VOC	0.04	0.20
		CO	<0.01	<0.01
		Acetone	0.01	0.03
		Ethylene (6)	0.01	-
		VA (6)	0.03	-
		nBA (6)	0.01	-
PL-7N	G-Unit CMIR	VOC	0.01	0.01
PL-7O	G-Unit Screen Pack Changes (MSS)	VOC	0.04	<0.01
PL-7Q	G-Unit Glob Boxes (MSS)	VOC	0.25	0.91
		AA (6)	0.02	-
		Ethylene (6)	0.13	-
		Acetic Acid (6)	0.10	-
		MA (6)	0.19	-
		MAA (6)	0.05	-
		MAME (6)	0.02	-
		MeOH (6)	0.04	-
		Propane (6)	0.04	-
		nBA (6)	0.17	-
		iBA (6)	0.02	-

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		IPA (6)	0.03	-
PL-7R	G-Unit Wax Drums	VOC	0.03	0.11
		Ethylene (6)	0.01	-
		Acetic Acid (6)	0.01	-
		MA (6)	0.01	-
		MAA (6)	0.01	-
		nBA (6)	0.01	-
PL-7S	D-Unit Mineral Spirits Dumpster	VOC	0.06	0.03
PL-7T	G-Unit Mineral Spirits Dumpster	VOC	0.01	0.01
PL-7V	G-Unit Tank Trailer Loading and Unloading	VOC	0.42	0.01
PL-7X	G-Unit Tank Trailer (Spot Block) Loading and Unloading	VOC	1.54	0.09
PL-7Y	G-Unit Used Oil Dumpster	VOC	0.06	<0.01
PL-8D	G-Unit Acrylic Acid/MAME Tank	VOC	0.57	0.05
PL-8E	CDG Aqueous Collection Tank	VOC	1.44	0.10
PL-8G	D/G Unit Monomer Tank	VOC	0.05	0.68
PL-8J	G-Unit Analyzer Vents	VOC	0.04	<0.01
PL-8L	D/G-Unit RIDs Tank	VOC	0.17	0.01
PL-8M	CDG Organic Decanter Tank	VOC	0.01	0.01
PL-8N	CDG Organic Storage Tank	VOC	1.11	0.01
PL-8Q	Additive Mix Tank	VOC	<0.01	<0.01
PL-8R	Additive Storage Tank	VOC	0.01	0.01
PL-8S	Additive Waste Tank	VOC	<0.01	0.01
PL-8T	G-Unit Waste Solvent Tank	VOC	0.89	0.03
PL-8U	Additive Rain Tank	VOC	<0.01	0.01
PL-8W	G-Unit White Oil Tank	VOC	0.01	0.01
PL-8Z	Beringer Ovens	VOC	0.03	0.15
PL-9J	G Unit Waste Pellet Dumpster	VOC	0.44	1.93
		Ethylene (6)	0.26	-
		Acetic Acid (6)	0.01	-

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PL-10 -- --	Regenerative Thermal Oxidizer (R)	MAA (6)	0.02	-
		MAME (6)	0.01	-
		MeOH (6)	0.05	-
		Propane (6)	0.07	-
		nBA (6)	0.02	-
		IPA (6)	0.02	-
		NO _x	1.17	4.71
		CO	37.36	86.13
		VOC	32.42	37.87
		SO ₂	0.01	0.04
		PM	0.77	3.16
		PM ₁₀	0.77	3.16
		PM _{2.5}	0.77	3.16
		Acetone	1.85	2.94
		Ethylene (6)	7.08	-
		VA (6)	11.28	-
		MAA (6)	1.68	-
		iBA (6)	0.48	-
		nBA (6)	3.47	-
		GMA (6)	0.29	-
		MA (6)	3.03	-
		IPA (6)	0.63	-
		AA (6)	0.50	-
		MAME (6)	0.19	-
		Acetic Acid (6)	0.35	-
		MeOH (6)	1.42	-
		OMS (6)	0.06	-
		Propane (6)	0.36	-
		Propylene (6)	0.11	-

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PL-22	CDG Flare	NO _x	30.49	14.34
		CO	220.19	104.02
		VOC	325.17	76.54
		SO ₂	0.48	2.12
		Acetone	16.23	5.31
		MAME (6)	0.01	-
		AA (6)	0.13	-
		MAA (6)	0.30	-
		IPA (6)	2.94	-
		MeOH (6)	3.06	-
		nBA (6)	1.84	-
		iBA (6)	0.93	-
		MA (6)	8.14	-
		GMA (6)	1.01	-
		VA (6)	41.59	-
		Acetone (6)	13.53	-
		Ethylene (6)	236.60	-
		Propylene (6)	5.99	-
		Propane (6)	16.18	-
		Cyclopentane (6)	0.05	-
		OMS (6)	0.03	-
PLA-9A	Vinyl Acetate Storage Tank (West) (7)	VOC	0.40	0.43
PLA-9B	Vinyl Acetate Storage Tank (East) (7)	VOC	-	-
PLA-9C	RECVAM Storage Tank (Far East)	VOC	1.00	2.94
PLA-14	D-Unit NBA Storage Tank	VOC	0.02	0.04
PL-F5	D Unit Fugitives (5)	VOC	15.99	70.02
		CO	0.44	1.94
		Acetone	0.03	0.13
PL-F6	G Unit Fugitives (5)	VOC	16.16	70.79

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PL-9K	G-Unit Tank Trailer Loading (Spot 207)	Acetone	0.02	<0.01
		VOC	<0.01	<0.01
PL-96	D-Unit Mineral Spirits Tank	VOC	0.25	<0.01
PL-97	G-Unit Mineral Spirits Tank	VOC	0.25	0.01
EXT-MAINT	Extruder Maintenance	VOC	0.01	0.01
DRY-MAINT	Dryer Maintenance	VOC	2.34	0.06
VAC-LOAD	Vacuum Loading	VOC	0.83	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.				
TANK-DEGAS	Storage Tank	VOC	48.67	0.03
(3) VOC	- volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1			
NO _x	- total oxides of nitrogen			
LINE-PURGE	Liquid Line Purging	VOC	4.35	1.02
SO ₂	- sulfur dioxide			
PM ₁₀	- total particulate matter, suspended in the atmosphere, including PM ₁₀ and PM _{2.5} , as represented	VOC	9.09	0.14
TANK-LAND	Floating Roof Landing			
SYSTEM-DEGAS	System Degassing	VOC	0.65	0.12
PM _{2.5}	- particulate matter equal to or less than 2.5 microns in diameter			
SLUDGE-LOAD	Sludge Removal	VOC	1.55	0.01
GO-AA	carbon monoxide			
FUGUELS	Sludge Component	VOC	0.11	0.99
MA	- acrylic acid			
IBA	- isobutyl acrylate			
IPA	- isopropyl alcohol			
MA	- methyl acrylate			
MAA	- methacrylic acid			
MAME	- maleic acid monoethyl ester			
MeOH	- methanol			
nBA	- n-butyl Acrylate			
OMS	- odorless mineral spirits			
VA	- vinyl acetate			

- (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) The speciated emission rate is included in the VOC emission rate. The annual emission rate (TPY) is not limited for individual VOC compounds as they are included in the VOC annual emission rate limit.
- (7) All or part of the emissions authorized for emission point number (EPN) PLA-9A may be emitted from EPN PLA-9B, provided that the overall limit for EPN PLA-9A is not exceeded.
- (8) Scheduled maintenance for each RTO is limited to 240 hours per year. When one RTO is down, the vent streams shall be routed to the other RTO. The hourly limits specified is the limit when only one RTO is operating. The annual emission rate is the combined emissions from both RTOs.

Date: January 28, 2020