

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 19806

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)
EB-1B-505	Dehydro No. 2 Heat Recovery Boiler Dehydro No. 2 Air Heater Dehydro No. 2 Regen Gas Generator (Normal Operations)	NO _x	7.23	--
		CO	2.59	--
		VOC	2.01	--
		PM/PM ₁₀ /PM _{2.5}	3.37	--
		SO ₂	29.33	--
		NH ₃	8.99	--
EB-1B-505 (8)	Dehydro No. 2 Heat Recovery Boiler Dehydro No. 2 Air Heater Dehydro No. 2 Regen Gas Generator (MSS Operations)	NO _x	4.25	--
		CO	25.86	--
		VOC	0.46	--
		PM/PM ₁₀ /PM _{2.5}	0.63	--
		SO ₂	29.11	--
EB-1B-505	Dehydro No. 2 Heat Recovery Boiler Dehydro No. 2 Air Heater Dehydro No. 2 Regen Gas Generator (Annual Limits)	NO _x	--	32.22
		CO	--	14.82
		VOC	--	8.81
		PM/PM ₁₀ /PM _{2.5}	--	14.76
		SO ₂	--	38.60
		NH ₃	--	39.37
EB-1B-506	Dehydro No. 2 Heat Recovery Boiler Dehydro No. 2 Turbine (Normal Operations)	NO _x	4.66	--
		CO	33.74	--

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

		VOC	1.16	--
		PM/PM ₁₀ /PM _{2.5}	2.15	--
		SO ₂	0.18	--
		NH ₃	13.00	--
EB-1B-506 (8)	Dehydro No. 2 Heat Recovery Boiler Dehydro No. 2 Turbine (MSS Operations)	NO _x	46.60	--
		CO	337.35	--
		VOC	1.16	--
		PM/PM ₁₀ /PM _{2.5}	2.15	--
		SO ₂	0.18	--
EB-1B-506	Dehydro No. 2 Heat Recovery Boiler Dehydro No. 2 Turbine (Annual Limits)	NO _x	--	26.70
		CO	--	193.30
		VOC	--	5.07
		PM/PM ₁₀ /PM _{2.5}	--	9.44
		SO ₂	--	0.79
		NH ₃	--	56.96
EB-1B-2501	Dehydro No. 2 Unit Feed Heater	NO _x	2.60	11.39
		CO	2.77	12.12
		VOC	0.35	1.54
		PM/PM ₁₀ /PM _{2.5}	0.48	2.12
		SO ₂	0.04	0.17
F-20	Dehydro 2 Unit Fugitives (5)	VOC	0.52	2.29
		NH ₃	0.93	4.08
T-6F-1778	Tank 6F-2778	VOC	0.38	0.03
T-31	Tank 31	VOC	4.24	0.63

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

T-36	DIB Storage Tank 36	VOC	0.64	0.17
T-37	DIB Storage Tank 37	VOC	0.64	0.17
T-73	MTBE/ETBE Storage Tank 73	VOC	8.79	1.42
T-80	MeOH/EtOH Storage Tank 80	VOC	1.70	0.37
T-74	MTBE/ETBE Storage Tank 74	VOC	8.79	1.42
T-87	MTBE/ETBE/ MeOH/EtOH Storage Tank 87	VOC	3.87	0.60
DH2CAT-MSS	DH2 Catalyst Change Out Fugitives	PM/PM ₁₀ /PM _{2.5}	0.39	0.04
EP-H9	Boiler No. 9	NO _x	247.06	658.08
		CO	74.12	95.72
		VOC	4.85	21.26
		PM	6.71	29.37
		SO ₂	0.53	2.32
T-117	PIB-1 Process Tank 117	VOC	2.28	(6)
T-118	PIB-1 Process Tank 118	VOC	2.28	(6)
T-119	PIB-1 Process Tank 119	VOC	2.28	(6)
T-IP-1	PIB-2 Process Tank 1	VOC	1.44	(6)
T-IP-2	PIB-2 Process Tank 2	VOC	1.44	(6)
T-IP-3	PIB-2 Process Tank 3	VOC	1.44	(6)
T-PIB-1	PIB-2 Storage Tank 1	VOC	1.62	(6)
T-PIB-2	PIB-2 Storage Tank 2	VOC	1.62	(6)

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

T-PIB-3	PIB-2 Storage Tank 3	VOC	1.62	(6)
T-PIB-4	PIB-2 Storage Tank 4	VOC	1.62	(6)
T-PIB-5	PIB-2 Storage Tank 5	VOC	1.62	(6)
T-PIB-6	PIB-2 Storage Tank 6	VOC	1.62	(6)
TNK-GRP	Tank Emissions Cap	VOC	--	7.0
E-PIBTT	PIB-1 Product Loading B Tank Trucks	VOC	(7)	(7)
E-PIBTC	PIB-1 Product Loading B Railcars	VOC	(7)	(7)
E-PIB2RC1	PIB-2 Product Loading Railcars - Station 1	VOC	(7)	(7)
E-PIB2RC2	PIB-2 Product Loading Railcars - Station 2	VOC	(7)	(7)
E-PIB2TT1	PIB-2 Product Loading Tank Truck - Station 1	VOC	(7)	(7)
E-PIB2TT2	PIB-2 Product Loading Tank Truck - Station 2	VOC	(7)	(7)
LOAD-GRP	Loading Emissions Cap	VOC	18.26	0.33
F-PIBPROC	PIB-1 Process Fugitives (5)	VOC	0.13	0.57
F-PIBSTOR	PIB-1 Tank Farm Fugitives (5)	VOC	0.10	0.45
F-PIB2PROC	PIB-2 Process Fugitives (5)	VOC	0.15	0.66
F-PIB2STOR	PIB-2 Tank Farm Fugitives (5)	VOC	0.31	1.35
T-P1WW1	PIB-1 Wastewater Tank 1	VOC	0.01	0.01
T-P1WW2	PIB-1 Wastewater Tank 2	VOC	0.01	0.01
T-P2WW1	PIB-2 Wastewater Tank 1	VOC	0.01	0.01

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T-P2WW2	PIB-2 Wastewater Tank 2	VOC	0.01	0.01
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- (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
 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
 NO_x - total oxides of nitrogen
 SO₂ - sulfur dioxide
 CO - carbon monoxide
 NH₃ - ammonia
- (4) Compliance with annual emission limits (tons per year) is based on a 12-month rolling period.
- (5) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate. Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.
- (6) The total annual emission rates for PIB process and storage tanks are limited to the annual cap indicated under EPN TNK-GRP.
- (7) The total PIB product loading emission rates are limited to the hourly and annual caps indicated under EPN LOAD-GRP which may be loaded through either tank trucks or tank cars or both.
- (8) MSS lb/hr limits apply only during each clock hour that includes one or more minutes of MSS activities. During all other clock hours, the normal lb/hr limits apply.

Date: _____