

Emission Sources - Maximum Allowable Emission Rates

Permit Number 6257E

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)
P-3	CO ₂ Stripper, 30-4201	VOC	48.00	53.52
P-4	EO Vent Absorber, 30-4303	VOC	0.32	1.38
P-12	Tank Farm Vent Scrubber, 30-6000	VOC	5.50	2.43
P-15	Flare, 12-6501	VOC	26.29	15.29
		NO _x	6.49	8.26
		CO	33.09	45.36
		SO ₂	0.02	0.09
P-18	Lean Absorbent Surge Tank, 28-4206	VOC	0.27	0.29
P-25	Boiler, 03-6000	VOC	0.38	1.66
		NO _x	4.20	18.40
		CO	5.77	25.30
		SO ₂	0.04	0.19
		PM	0.52	2.30
		PM ₁₀	0.52	2.30
		PM _{2.5}	0.52	2.30
EOFUG	EO Unit Fugitives (5)	VOC	3.83	16.77
UCTA	Utility Cooling Tower (5)	VOC	2.29	10.03
		PM	1.09	4.78
		PM ₁₀	0.42	1.83
		PM _{2.5}	0.01	0.01
WW1/WW2	Wastewater Tanks, 28-6507/28-6508 (7)	VOC	1.00	1.46
LAB	Lab Vent	VOC	1.50	1.82
ANVENT	Analyzer Vents	VOC	0.05	0.22
RESLOAD	Residue Loading	VOC	3.8	0.28

Emission Sources - Maximum Allowable Emission Rates

UAD/PWW-1	Unit Area Discharge/Process Wastewater (10)	VOC	1.30	1.38
UAD/PWW-2	Unit Area Discharge/Process Wastewater (9) (10)	VOC	0.09	0.20
10-6891A	Diesel Generator	VOC	0.44	0.02
		NO _x	15.24	0.76
		CO	8.57	0.43
		SO ₂	0.02	0.01
		PM	0.49	0.02
		PM ₁₀	0.49	0.02
		PM _{2.5}	0.49	0.02
10-6892A	Diesel Generator	VOC	0.44	0.02
		NO _x	15.24	0.76
		CO	8.57	0.43
		SO ₂	0.02	0.01
		PM	0.49	0.02
		PM ₁₀	0.49	0.02
		PM _{2.5}	0.49	0.02
10-6893A	Diesel Generator	VOC	0.44	0.02
		NO _x	15.24	0.76
		CO	8.57	0.43
		SO ₂	0.02	0.01
		PM	0.49	0.02
		PM ₁₀	0.49	0.02
		PM _{2.5}	0.49	0.02
10-6894A	Diesel Generator	VOC	0.44	0.02
		NO _x	15.24	0.76
		CO	8.57	0.43
		SO ₂	0.02	0.01
		PM	0.49	0.02
		PM ₁₀	0.49	0.02
		PM _{2.5}	0.49	0.02

Emission Sources - Maximum Allowable Emission Rates

28-6705	Diesel Tank	VOC	0.56	0.01
P-105	GE/EA Batch Tanks Scrubber (6)	VOC	<0.01	<0.01
RTO	Wastewater RTO-Routine Vents (8)(9)	VOC	0.18	0.26
		NO _x	0.46	2.01
		CO	2.72	11.90
		SO ₂	0.25	1.10
		PM	0.07	0.29
		PM ₁₀	0.07	0.29
		PM _{2.5}	0.07	0.29
RTO-MSS	RTO Startup (no waste gas venting)	VOC	0.08	<0.01
		NO _x	0.79	<0.01
		CO	4.68	0.03
		SO ₂	0.43	<0.01
		PM	0.11	<0.01
		PM ₁₀	0.11	<0.01
		PM _{2.5}	0.11	<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
- (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 the applicable special condition(s) and permit application representations.
- (6) Emission limits represent wastewater vents authorized in Permit 6257E only. Upon issuance, Equistar has 90 days to submit an NSR alteration to move the emissions from this permit under NSR 6257E, to NSR 6257F.
- (7) WW1/WW2 emissions shall be removed upon the construction and operation of the RTOs.
- (8) Combustion emissions of fuel gas during MSS activities are authorized under routine EPN RTO.
- (9) Emissions are from operation of both routine and MSS generated wastewater.

Emission Sources - Maximum Allowable Emission Rates

- (10) EPN UAD/PWW-1 emission rates are only effective until the project completion, via the agreed deadline from the compliance agreement signed on November 05, 2021, via Investigation No. 1552706. Upon project completion, UAD-PWW-2 emissions rates will become the effective emission rates.

Date: Jun 14, 2023