

Emission Sources - Maximum Allowable Emission Rates

Permit Number 9092

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)
MODZ-130	Tank T-130 Working Losses	VOC	0.21	<0.01
MODT-150	Tank T-150 Seal Pot Vent	VOC	0.03	0.13
MODT-3107	Tank T-3107	VOC	0.51	0.08
MODV-371	Tank V-371	VOC	<0.01	<0.01
MODV-2374	Tank V-2374	VOC	0.02	<0.01
MODV-3347	Tank V-3347	VOC	<0.01	<0.01
MODV-3348	Tank V-3348	VOC	<0.01	<0.01
MODWG-1	Waste Gas from Boilers	VOC	1.45	0.63
		NO _x	0.30	0.13
MODZ-2781	Boiler No. 1 (7)	VOC	0.53	0.23
		NO _x	3.27	1.39
		CO	1.52	0.65
		PM	0.73	0.32
		PM ₁₀	0.73	0.32
		PM _{2.5}	0.73	0.32
		SO ₂	0.06	0.03
MODZ-3781	Boiler No. 4	VOC	0.55	2.39
		NO _x	3.18	13.93
		CO	8.35	36.56
		PM	0.76	3.31
		PM ₁₀	0.76	3.31
		PM _{2.5}	0.76	3.31

Emission Sources - Maximum Allowable Emission Rates

		SO ₂	0.06	0.26
MODZ-780S	Boiler No. 5	VOC	0.36	1.60
		NO _x	2.67	11.70
		CO	9.70	42.50
		PM	1.21	5.30
		PM ₁₀	1.21	5.30
		PM _{2.5}	1.21	5.30
		SO ₂	1.60	1.10
MODZ-1608	Thermal Oxidizer (B-2, B-3)	NO _x	3.97	2.77
		CO	7.06	8.33
		VOC	1.26	1.69
		PM	0.06	0.28
		PM ₁₀	0.06	0.28
		PM _{2.5}	0.06	0.28
		SO ₂	0.01	0.02
MODZ-1607S	Regenerative Thermal Oxidizer (B-4, B-5)	NO _x	3.16	2.66
		CO	5.54	8.40
		VOC	1.46	2.76
		PM	0.01	0.06
		PM ₁₀	0.01	0.06
		PM _{2.5}	0.01	0.06
		SO ₂	<0.01	0.01
MODWW-1A	Z-670 Wastewater	VOC	0.53	1.10
MODWW-1B	Z-3672 Wastewater	VOC	0.53	1.10
MODWW-1C	Line No. 3 Wastewater	VOC	0.53	1.10
MODWW-1D	Line Nos. 1 and 2 Wastewater	VOC	0.53	1.10
MODUV-390	RX Vent Valves	VOC	0.01	0.01

Emission Sources - Maximum Allowable Emission Rates

MODF-1	Lines 1 and 2 Fugitives (5)	VOC	0.35	1.55
MODF-2	Line 3 Fugitives (5)	VOC	0.37	1.62
MODF-3	Tank Farm Fugitives (5)	VOC	0.26	1.15
MODF-UTL	Utilities Fugitives (5)	VOC	0.07	0.32
MODZ-652	Line No. 1 After treatment Stack	VOC	0.75	(6)
		PM	0.04	(6)
		PM ₁₀	0.04	(6)
MODZ-655	Line No.1 Dryer	VOC	11.55	(6)
		PM	1.31	(6)
		PM ₁₀	1.31	(6)
MODZ-2655	Line No. 2 Dryer	VOC	9.07	(6)
		PM	0.77	(6)
		PM ₁₀	0.77	(6)
MODZ-2652	Line No. 2 After treatment Stack	VOC	0.43	(6)
		PM	0.04	(6)
		PM ₁₀	0.04	(6)
MODZ-3655	Line 3 Fluid Bed Dryer	VOC	10.77	(6)
		PM	0.22	(6)
		PM ₁₀	0.22	(6)
MODZ-3654	Line No. 3 Dryer	VOC	15.97	(6)
		PM	0.82	(6)
		PM ₁₀	0.82	(6)
MODZ-Bubble	Line 1, 2, 3 Vents	VOC	—	65.20
		PM	—	13.88
		PM ₁₀	—	13.88
MODZ-656	Line No. 1 Bagging	VOC	0.05	0.17
		PM	0.04	0.16

Emission Sources - Maximum Allowable Emission Rates

		PM ₁₀	0.04	0.16
MODZ-2656	Line No. 2 Bagging	VOC	0.03	0.09
		PM	0.04	0.16
		PM ₁₀	0.04	0.16
MODZ-3656	Line No. 3 Bagging	PM	0.29	1.27
		PM ₁₀	0.29	1.27
MODF-3603	Dust Collectors	PM	0.29	1.27
		PM ₁₀	0.29	1.27
MODZ-MAINT	RTO Maintenance Emissions	VOC	165.30	0.66
MODV-172	Sulfuric Acid Tank (37%)	H ₂ SO ₄	0.001	0.003
MODV-173	Sulfuric Acid Tank (10%)	H ₂ SO ₄	0.001	0.003

- (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
 H₂SO₄ - sulfuric acid
- (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) Annual emission rates for these EPNs are listed under EPN Z-Bubble.
- (7) Boiler No. 1 is authorized to operate no more than 870 hours per a 12 month rolling period.

Date: January 20, 2022