

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. 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 *	
			lb/hr	TPY**
T-121/2121	Tank T-121/2121 Seal Pot Vent	VOC	0.02	0.10
T-130	Tank T-130 Breathing Losses	VOC	0.07	0.37
Z-130	Tank T-130 Working Losses	VOC	0.37	0.01
T-140	Tank T-140 Seal Pot Vent	VOC	0.21	0.92
T-150	Tank T-150 Seal Pot Vent	VOC	0.03	0.15
T-2130	Tank T-2130 Seal Pot Vent	VOC	0.01	0.02
T-125	Tank T-125 Seal Pot Vent	VOC	1.12	0.02
V-335	Tank V-335	VOC	1.12	0.02
V-362	Tank V-362	VOC	1.12	0.02
V-2340	Tank V-2340	VOC	1.12	0.01
V-3336	Tank V-3336	VOC	1.23	0.02
T-3107	Tank T-3107	VOC	0.50	0.09
WG-1	Waste Gas from Boilers	VOC	1.73	0.64
		NO _x	30.00	13.00
Z-2781	Rental Boiler (7)	VOC	1.00	4.40
		NO _x	2.99	13.10
		CO	3.68	16.10
		PM ₁₀	1.00	4.40
		SO ₂	0.06	0.30

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			lb/hr	TPY**
Z-1871	Boiler No. 3	VOC	0.38	(6)
		NO _x	2.21	(6)
		CO	5.79	(6)
		PM ₁₀	0.52	(6)
		SO ₂	0.04	(6)
Z-3781	Boiler No. 4	VOC	0.55	(6)
		NO _x	3.18	(6)
		CO	8.35	(6)
		PM ₁₀	0.76	(6)
		SO ₂	0.06	(6)
Z-780S	Boiler No. 5	VOC	0.36	(6)
		NO _x	2.67	(6)
		CO	9.70	(6)
		PM ₁₀	1.21	(6)
		SO ₂	1.60	(6)
Bubble	Three Boilers (Boiler Nos. 3, 4, 5)	VOC		5.7
		NO _x		35.3
		CO		104.5
		PM ₁₀		10.9
		SO ₂		1.6
Z-1608	Thermal Oxidizer (B-2, B-3)	NO _x	135.80	11.08
		CO	3.74	5.91
		VOC	2.80	5.50
		PM ₁₀	0.34	0.53
		SO ₂	0.03	0.05
Z-1607S	Regenerative Thermal Oxidizer (B-4, B-5)	NO _x	4.11	16.20
		CO	4.12	16.22
		VOC	3.31	2.40
		PM ₁₀	0.03	0.11
		SO ₂	0.01	0.01
WW-1A	Z-670 Wastewater	VOC	0.53	1.09

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WW-1B	Z-3672 Wastewater	VOC	0.53	1.09
WW-1C	Line No. 3 Wastewater	VOC	0.53	1.09
WW-1D	Line Nos. 1 and 2 Wastewater	VOC	0.53	1.09
UV-390	RX Vent Valves	VOC	0.01	0.01
F-1	Line Nos. 1 and 2 Fugitives (4)	VOC	0.17	0.76
F-2A	Line No. 3 Dissolving Area Fugitives (4)	VOC	0.01	0.02
F-2B	Line No. 3 Polymerization Area Fugitives (4)	VOC	0.31	0.47
F-3A	Area A Tank Farm Fugitives (4)	VOC	0.04	0.17
F-3B	Area B Tank Farm Fugitives (4)	VOC	0.04	0.17
F-3C	Area C Tank Farm Fugitives (4)	VOC	0.04	0.17
F-4	Boiler Area Fugitives (4)	VOC	0.04	0.17
F-5	TO & RTO Area Fugitives	VOC	0.03	0.11
L-4014-A1	Test Oven No. 3	VOC	0.01	0.01
L-4015-A1	Test Oven No. 4	VOC	0.01	0.01
Z-652	Line No. 1 After treatment Stack	VOC	1.90	(5)
		PM ₁₀	0.02	(5)
Z-655	Line No. 1 Dryer	VOC	10.85	(5)
		PM ₁₀	12.32	(5)
Z-2655	Line No. 2 Dryer	VOC	8.37	(5)

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Z-2652	Line No. 2 After treatment Stack	PM ₁₀	3.69	(5)
		VOC	0.01	(5)
		PM ₁₀	0.01	(5)
Z-3655	Line 3 Fluid Bed Dryer	VOC	6.6	(5)
		PM ₁₀	1.51	(5)
Z-3654	Line No. 3 Dryer	VOC	19.8	(5)
		PM ₁₀	2.7	(5)
Z-Bubble	Line 1, 2, 3 Vents	VOC		93.15
		PM		58.18
Z-656	Line No. 1 Bagging	PM ₁₀	0.19	0.83
Z-2656	Line No. 2 Bagging	PM ₁₀	0.06	0.25
Z-3656	Line No. 3 Bagging	PM ₁₀	0.29	1.28
F-3603	Dust Collectors	PM ₁₀	0.29	1.28
Z-MAINT	RTO Maintenance Emissions	VOC	165.30	0.66

(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

CO - carbon monoxide

PM₁₀ - particulate matter (PM) equal to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no PM greater than 10 microns is emitted.

SO₂ - sulfur dioxide

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- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) Annual emission rates for these EPNs are listed under EPN Z-Bubble.
- (6) Annual emission rates for the Boiler Nos. 3, 4, and 5 EPNs are listed under EPN Bubble.
- (7) To be taken out of service no later than 30 days after completion of Boiler 5 (EPN Z-780S).

* Emission rates are based on and the facilities are limited by the following maximum operating schedule:

Hrs/day____ Days/week____ Weeks/year____ or Hrs/year 8,760

** Compliance with annual emission limits is based on a rolling 12-month period.

Dated August 7, 2006