

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 1561

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)	<u>Emission Rates *</u>	
			lb/hr	TPY**
1a	Tank Farm Carbon Beds Vent	Acetone	0.38	0.24
		VOC 0.51	0.29	
1b	Tank Farm Carbon Beds Vent	Acetone	0.55	0.51
		VOC 0.76	0.63	
1c	Tank Farm Carbon Beds Vent	Acetone	0.43	0.32
		VOC 0.61	0.41	
1d	Tank Farm Carbon Beds Vent	Acetone	0.60	0.70
		VOC 0.84	0.89	
2a	Process Condenser Vent	Acetone	0.26	0.38
		VOC 0.37	0.71	
2b	Process Condenser Vent	Acetone	0.26	0.38
		VOC 0.37	0.71	
2c	Process Condenser Vent	Acetone	0.26	0.38
		VOC 0.37	0.71	
2d	Process Condenser Vent	Acetone	0.26	0.38
		VOC 0.37	0.71	
2e	Process Condenser Vent	Acetone	0.52	0.76
		VOC 0.74	1.42	
3a	Product Loading Losses	Acetone	1.61	0.10
		VOC 0.53	0.03	
3b	Product Loading Losses	Acetone	1.42	0.10
		VOC 0.47	0.03	

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			lb/hr	TPY**
3c	Product Loading Losses	Acetone	1.42	0.10
		VOC 0.47	0.03	
3d	Product Loading Losses	Acetone	1.42	0.10
		VOC 0.47	0.03	
4a	Boiler No. 1 (5) (6) (7) (8.67 MMBtu/hr heat input)	CO	0.73	3.19
		NO _x	2.72	(8)
			PM ₁₀	0.27
		1.19		
		SO ₂	0.97	4.23
		SO ₃	0.02	0.06
		VOC 0.05	0.21	
4b	Boiler No. 2 (5) (6) (7) (9.71 MMBtu/hr heat input)	CO	0.82	3.57
		NO _x	3.05	(8)
		PM ₁₀ 0.31	1.34	
		SO ₂	1.08	4.74
		SO ₃	0.02	0.07
		VOC 0.05	0.24	
4c	Boiler No. 3 (5) (6) (7) (8.67 MMBtu/hr heat input)	CO	0.73	3.19
		NO _x	2.72	(8)
		PM ₁₀ 0.27	1.19	
		SO ₂	0.97	4.23
		SO ₃	0.02	0.06
		VOC 0.05	0.21	
4d	Boiler No. 4 (5) (6) (7) (8.67 MMBtu/hr heat input)	CO	0.73	3.19
		NO _x	2.72	(8)
		PM ₁₀ 0.27	1.19	
		SO ₂	0.97	4.23
		SO ₃	0.02	0.06
		VOC 0.05	0.21	
4e	Boiler No. 5 (5) (6) (7)	CO	0.25	1.11

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			lb/hr	TPY**
	(3.00 MMBtu/hr heat input)	NO _x	0.94	(8)
		PM ₁₀ 0.10	0.42	
		SO ₂	0.34	1.47
		SO ₃	0.01	0.02
		VOC 0.02	0.08	
4f	Boiler No. 6 (5) (6) (7) (9.40 MMBtu/hr heat input)	CO	0.79	3.46
		NO _x	2.95	(8)
		PM ₁₀ 0.30	1.29	
		SO ₂	1.05	4.59
		SO ₃ 0.02	0.07	
		VOC 0.06	0.23	
4g	Boiler No. 7 (5) (6) (7) (9.71 MMBtu/hr heat input)	CO	0.82	3.57
		NO _x	3.05	(8)
		PM ₁₀ 0.31	1.35	
		SO ₂	1.08	4.74
		SO ₃ 0.02	0.07	
		VOC 0.06	0.24	
4h	Boiler No. 8 (5) (6) (7) (9.71 MMBtu/hr heat input)	CO	0.82	3.57
		NO _x	3.05	(8)
		PM ₁₀ 0.31	1.35	
		SO ₂	1.08	4.74
		SO ₃ 0.02	0.07	
		VOC 0.06	0.24	
4i	Boiler No. 9 (5) (6) (7) (8.67 MMBtu/hr heat input)	CO	0.73	3.19
		NO _x	2.72	(8)
		PM ₁₀ 0.27	1.19	
		SO ₂	0.97	4.23
		SO ₃ 0.02	0.06	
		VOC 0.05	0.21	

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			<u>lb/hr</u>	<u>TPY**</u>
	Annual Emission Cap	NO_x		18.00
CT-BK	Back Cooling Tower	PM ₁₀	0.36	1.58
CT-FRT	Front Cooling Tower	PM ₁₀	0.22	0.95
CT-MID	Middle Cooling Tower	PM ₁₀	0.15	0.63
FU-1	Process Fugitives (4)	VOC	1.84	8.06

- (1) Emission point identification - either specific equipment designation or emission point number from a plot plan.
- (2) Specific point source names. For fugitive sources use area name or fugitive source name.
- (3) CO - carbon monoxide
NO_x - oxides of nitrogen
PM₁₀ - particulate matter less than 10 microns in diameter
SO₂ - sulfur dioxide
SO₃ - sulfur trioxide
VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) Firing sweet natural gas
- (6) Firing liquid fuel at a maximum of 0.05 weight percent sulfur
- (7) Firing distillate oil at a maximum of 0.05 weight percent sulfur
- (8) The combined annual NO_x emissions from the boilers authorized in this permit shall not exceed 18.00 tons per year.

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

Hrs/day 24 Days/week 7 Weeks/year 52

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

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			<u>lb/hr</u>	<u>TPY**</u>

Dated March 23, 2007