

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Numbers 7799 and PSDTX860

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.

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	AIR CONTAMINANTS DATA	
			Emission Rates *	
			lb/hr	TPY**
EH28A	B-2101A Furnace	CO	10.24	31.52
		NO _x	9.94	43.12
		PM ₁₀	0.93	2.85
		SO ₂	0.07	0.23
		VOC	0.67	2.06
EH28B	B-2101B Furnace	CO	10.24	31.52
		NO _x	9.94	43.12
		PM ₁₀	0.93	2.85
		SO ₂	0.07	0.23
		VOC	0.67	2.06
EH29C	B-2101CFurnace	CO	10.24	31.52
		NO _x	9.94	43.12
		PM ₁₀	0.93	2.85
		SO ₂	0.07	0.23
		VOC	0.67	2.06
EH29D	B-2101D Furnace	CO	10.24	31.52
		NO _x	9.94	43.12
		PM ₁₀	0.93	2.85
		SO ₂	0.07	0.23
		VOC	0.67	2.06
EH30E	B-2101E Furnace	CO	10.24	31.52
		NO _x	9.94	43.12
		PM ₁₀	0.93	2.85
		SO ₂	0.07	0.23
		VOC	0.67	2.06
EH30F	B-2101F Furnace	CO	10.24	31.52
		NO _x	9.94	43.12
		PM ₁₀	0.93	2.85
		SO ₂	0.07	0.23
		VOC	0.67	2.06

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			lb/hr	TPY**
EH41	L.P. Flare (6)	CO		43.80
		H ₂ S		0.01
		NO _x		8.60
		SO ₂		0.37
		VOC		49.16
EH42	H.P. Flare (6)	CO		79.20
		H ₂ S		0.01
		NO _x		11.10
		SO ₂		0.33
		VOC		116.60
EH41/EH42	L.P. Flare/H.P. Flare Caps (6)	CO	245.26	
		H ₂ S	0.35	
		NO _x	33.98	
		SO ₂	32.92	
		VOC	258.57	
EH47	B-6901 A, B 1, and 500 psia Boilers	CO	8.40	20.80
		NO _x	99.70	317.00
		PM ₁₀	5.00	12.20
		SO ₂	0.50	1.40
		VOC	1.50	3.60
EH48	B-6101A Furnace	CO	13.99	39.30
		NO _x	13.59	53.77
		PM ₁₀	1.27	3.56
		SO ₂	0.10	0.40
		VOC	0.92	2.57
EH49	B-6101B Furnace	CO	13.99	39.30
		NO _x	13.59	53.77
		PM ₁₀	1.27	3.56
		SO ₂	0.10	0.40
		VOC	0.92	2.57
EH50	B-6101C Furnace	CO	13.99	39.30
		NO _x	13.59	53.77
		PM ₁₀	1.27	3.56
		SO ₂	0.10	0.40
		VOC	0.92	2.57

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			lb/hr	TPY**
EH51	B-6151A Furnace	CO	11.94	35.50
		NO _x	11.60	48.57
		PM ₁₀	1.08	3.21
		SO ₂	0.09	0.36
		VOC	0.78	2.32
EH52	B-6151B Furnace	CO	11.94	35.50
		NO _x	11.60	48.57
		PM ₁₀	1.08	3.21
		SO ₂	0.09	0.36
		VOC	0.78	2.32
EH54	B-6101D Furnace	CO	13.99	39.30
		NO _x	13.59	53.77
		PM ₁₀	1.27	3.56
		SO ₂	0.10	0.40
		VOC	0.92	2.57
EH6301A	B-6301A Furnace	CO	12.73	44.59
		NO _x	19.09	66.86
		PM ₁₀	1.59	5.57
		SO ₂	0.19	0.67
		VOC	0.45	1.11
EH6301B	B-6301B Furnace	CO	12.73	44.59
		NO _x	19.09	66.86
		PM ₁₀	1.59	5.57
		SO ₂	0.19	0.67
		VOC	0.45	1.11
EM1	Cooling Tower No.1	VOC	4.20	18.40
EM3	Cooling Tower No. 3	VOC	1.05	4.60
EM26	Cooling Tower No. 4	VOC	0.55	2.41
EM23	B-6101A and B Decoking Vent (7)	CO	1017.99	12.55
		PM (8)	56.62	0.80
		PM ₁₀	22.08	0.46
		SO ₂	0.11	0.01

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			lb/hr	TPY**
EM24	B-6101 C and D Decoking Vent (7)	CO	1017.99	12.55
		PM (8)	56.62	0.80
		PM ₁₀	22.08	0.46
		SO ₂	0.11	0.01
EM25	B-6151 A and B Decoking Vent (7)	CO	856.94	10.38
		PM (8)	45.70	0.66
		PM ₁₀	17.82	0.38
		SO ₂	0.09	0.01
EM27	B-2101 A, B, and C Decoking Vent (7)	CO	1285.42	16.65
		PM (8)	69.44	1.03
		PM ₁₀	27.08	0.57
		SO ₂	0.15	0.01
EM30	B-2101 D, E, and F Decoking Vent (7)	CO	1285.42	16.65
		PM (8)	69.44	1.03
		PM ₁₀	27.08	0.57
		SO ₂	0.15	0.01
EM31	USC I Carbon Canisters	VOC	0.64	2.78
EM32	USC II Carbon Canisters	VOC	0.39	1.73
EM33	Ethylene Unit Carbon Canisters	VOC (5)	0.49	2.16
EM34	Ethylene Unit Carbon Canisters	VOC (5)	0.49	
EM6301	B-6301 A and B Decoking Vent (7)	CO	2120.82	42.55
		PM (8)	115.74	2.65
		PM ₁₀	45.14	1.46
		SO ₂	0.23	0.01
EF1	Ethylene Unit Fugitives (4)	VOC	9.92	43.45
EF6	Rail Loading Fugitives (4)	VOC	0.67	2.95
EF7	USC II Fugitives (4)	VOC	6.06	26.58
EF8	USC-I Fugitives (4)	VOC	4.43	19.41
EF12	RGCB Fugitives (4)	VOC	4.55	19.94
EF14	Tank 36 Area Fugitives (4)	VOC	1.23	5.41

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EF16	Off-Site Flare Fugitives (4)	VOC	0.63	2.74

- (1) Emission point identification - either specific equipment designation or Emission Point No. (EPN) 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 - total oxides of nitrogen
 PM - particulate matter (PM) suspended in the atmosphere, including PM₁₀
 PM₁₀ - PM equal to or less than 10 microns in diameter.
 SO₂ - sulfur dioxide
 H₂S - hydrogen sulfide
 VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1.
- (4) Emission rate is an estimate and compliance is demonstrated by meeting the requirements of the applicable special conditions and permit application representations.
- (5) The total annual combined emission rate from EPNs EM33 and EM34 shall not exceed 2.16 tons per year.
- (6) The total hourly combined emissions rates from the Flares EH41 and EH42 shall not exceed the maximum allowable rates.
- (7) Planned maintenance, start-up, and shutdown activities and emissions from each decoking EPN.
- (8) The PM and PM₁₀ emissions emitted from this EPN.

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

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

** Compliance with the annual limits shall be on a 12-month rolling basis.

Dated January 12, 2011