Permit Numbers 7799 and PSD-TX-860

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	Source	Air Contaminant	Emission F	Rates *
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY**
EH28A	B-2101A Furnace	CO NO_x PM_{10} SO_2 VOC	10.24 9.94 0.93 0.07 0.67	31.52 43.12 2.85 0.23 2.06
EH28B	B-2101B Furnace	CO NO_{x} PM_{10} SO_{2} VOC	10.24 9.94 0.93 0.07 0.67	31.52 43.12 2.85 0.23 2.06
EH29C	B-2101CFurnace	CO NO_x PM_{10} SO_2 VOC	10.24 9.94 0.93 0.07 0.67	31.52 43.12 2.85 0.23 2.06
EH29D	B-2101D Furnace	CO NO_x PM_{10} SO_2 VOC	10.24 9.94 0.93 0.07 0.67	31.52 43.12 2.85 0.23 2.06
EH30E	B-2101E Furnace	CO NO_x PM_{10} SO_2 VOC	10.24 9.94 0.93 0.07 0.67	31.52 43.12 2.85 0.23 2.06

AIR

CONTAMINANTS DATA

Emission	Source	Air Contaminant	Emission	n Rates *
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY**
EH30F	B-2101F Furnace	CO NO_x PM_{10} SO_2 VOC	10.24 9.94 0.93 0.07 0.67	31.52 43.12 2.85 0.23 2.06
EH41	L.P. Flare (6)	CO H ₂ S NO _x SO ₂ VOC		43.80 0.01 8.60 0.37 49.16
EH42	H.P. Flare (6)	CO H_2S NO_x SO_2 VOC		79.20 0.01 11.10 0.33 116.60
EH41/EH42	L.P. Flare/H.P. Flare Caps (6)	CO H ₂ S NO _x SO ₂ VOC	234.26 0.35 33.98 32.92 258.57	
EH47	B-6901A, B1, and 500 psia Boilers	CO NO_x PM_{10} SO_2 VOC	8.40 99.70 5.00 0.50 1.50	20.80 317.00 12.20 1.40 3.60
EH48	B-6101A Furnace	CO NO_x PM_{10} SO_2 VOC	13.99 13.59 1.27 0.10 0.92	39.30 53.77 3.56 0.40 2.57

AIR

CONTAMINANTS DATA

Emission	Source	Air Contaminant	Emission	Rates *
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY**
EH49	B-6101B Furnace	CO NO_x PM_{10} SO_2 VOC	13.99 13.59 1.27 0.10 0.92	39.30 53.77 3.56 0.40 2.57
EH50	B-6101C Furnace	CO NO_x PM_{10} SO_2 VOC	13.99 13.59 1.27 0.10 0.92	39.30 53.77 3.56 0.40 2.57
EH51	B-6151A Furnace	CO NO_x PM_{10} SO_2 VOC	11.94 11.60 1.08 0.09 0.78	35.50 48.57 3.21 0.36 2.32
EH52	B-6151B Furnace	CO NO_x PM_{10} SO_2 VOC	11.94 11.60 1.08 0.09 0.78	35.50 48.57 3.21 0.36 2.32
EH54	B-6101D Furnace	CO NO_x PM_{10} SO_2 VOC	13.99 13.59 1.27 0.10 0.92	39.30 53.77 3.56 0.40 2.57
EH6301A	B-6301A Furnace	CO NO_x PM_{10} SO_2 VOC	12.73 19.09 1.59 0.19 0.45	44.59 66.86 5.57 0.67 1.11

AIR

CONTAMINANTS DATA

Emission	Source	Air Contaminant	Emission	Rates *
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY**
EH6301B	B-6301B Furnace	СО	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 & B Decoking Vent (7	r) CO	437.16	5.22
LIVIZO	B-0101A & B Becoking Vent (7	PM/PM ₁₀	28.10	0.34
		SO ₂	0.14	0.01
EM24	B-6101C & D Decoking Vent (7	,	437.16	5.22
		PM/PM ₁₀	28.10	0.34
		SO_2	0.14	0.01
EM25	B-6151A & B Decoking Vent (7	r) CO	434.20	4.30
		PM/PM ₁₀	23.17	0.28
		SO_2	0.14	0.01
EM27	B-2101A, B, & C Decoking Ven	t (7) CO	434.38	3.80
	, , ,	PM/PM ₁₀	23.37	0.25
		SO_2	0.11	0.01
EM30	B-2101D, E, & F Decoking Ven	t (7) CO	434.38	3.80
	, _,	PM/PM ₁₀	23.37	0.25
		SO ₂	0.11	0.01
EM31	USC I Carbon Canisters	VOC	0.64	2.78

EM32 EM33	USC II Carbon Canisters Ethylene Unit Carbon Canisters	VOC VOC (5)	0.39 0.49	1.73 2.16
EM34	Ethylene Unit Carbon Canisters	VOC (5)	0.49	
EM6301	B-6301A & B Decoking Vent (7)	CO PM ₁₀ SO ₂	516.77 57.83 0.23	14.77 0.97 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	6.03	26.43
EF8	USC-I Fugitives (4)	VOC	4.35	19.05
EF12	RGCB Fugitives (4)	VOC	4.55	19.94
EF14	Tank 36 Area Fugitives (4)	VOC	1.23	5.41
EF16	Off-Site Flare Fugitives (4)	VOC	0.63	2.74

- (1) Emission point identification either specific equipment designation or emission point number (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
 - PM₁₀ particulate matter (PM) equal to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no particulate matter greater than 10 microns is emitted.
 - 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) Only one decoking EPN can emit at any one time.
- * Emission rates are based on and the facilities are limited by the following maximum operating schedule:

24 Hrs/day	7 days/week and	<u>52</u> weeks/year
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** Compliance with the annual limits shall be on a 12-month rolling basis.

Dated	