EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 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 Point No. (1) *	Source Name (2)	Air Contaminant Name (3)	Emission Rates lb/hr	Emission Rates TPY
EH28A	B-2101A Furnace	CO	4.82	20.80
		NO_x	16.60	71.80
		PM_{10}	0.60	2.60
		SO_2	0.07	0.30
		VOC	0.17	0.70
EH28B	B-2101B Furnace	CO	4.82	20.80
		NO_x	16.60	71.80
		PM_{10}	0.60	2.60
		SO_2	0.07	0.30
		VOC	0.17	0.70
EH29C	B-2101CFurnace	CO	4.82	20.80
		NO_x	16.60	71.80
		PM_{10}	0.60	2.60
		SO_2	0.07	0.30
		VOC	0.17	0.70
EH29D	B-2101D Furnace	CO	4.82	20.80
		NO_x	16.60	71.80
		PM_{10}	0.60	2.60
		SO_2	0.07	0.30
		VOC	0.17	0.70
EH30E	B-2101E Furnace	CO	4.82	20.80
		NO_x	16.60	71.80
		PM_{10}	0.60	2.60
		SO_2	0.07	0.30
		VOC	0.17	0.70
EH30F	B-2101F Furnace	CO	4.82	20.80
		NO_x	16.60	71.80

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AIR CONTAMINANTS DATA

Emission Point No. (1) *	Source Name (2)	Air Contaminant Name (3)	Emission Rates lb/hr	TPY
		PM_{10}	0.60	2.60
		SO_2	0.07	0.30
		VOC	0.17	0.70
EH41	L.P. Flare	VOC	11.40	49.80
		CO 10.00	43.80	
		NO_x	2.00	8.60
EH42	H.P. Flare	VOC	26.60	116.60
		CO 18.10	79.20	
		NO_x	2.50	11.10
EH47	B-6901 A, B 1500 psia Boilers 20.80	CO		8.40
		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 2.90	7.90	
		NO_x	29.00	101.00
		PM_{10}	1.70	4.60
		SO_2	0.20	0.50
		VOC	0.50	1.40
EH49	B-6101B Furnace	CO 2.90	7.90	
		NO_x	29.00	101.00
		PM_{10}	1.70	4.60
		SO_2	0.20	0.50
		VOC	0.50	1.40
EH50	B-6101C Furnace	CO 2.90	7.90	
		NO_x	29.00	101.00
		PM_{10}	1.70	4.60
		SO_2	0.20	0.50
		VOC	0.50	1.40
EH51	B-6151A Furnace	CO 2.70	7.60	
		NO_x	27.50	95.50

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	TPY
		PM_{10}	1.60	4.50
		SO_2	0.20	0.50
		VOC	0.50	1.30

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	TPY
EH52	B-6151B Furnace	CO 2.70	7.60	
		NO_x	27.50	95.50
		PM_{10}	1.60	4.50
		SO_2	0.20	0.50
		VOC	0.50	1.30
EH54	B-6101D Furnace	CO 2.90	7.90	
		NO_x	29.00	101.00
		PM_{10}	1.70	4.60
		SO_2	0.20	0.50
		VOC	0.50	1.40
EH58	Propylene Storage Flare	CO 0.22	0.96	
		NO_x	0.07	0.30
		PM_{10}	0.01	0.01
		VOC	<0.01	<0.01
EH6301A	B-6301A Furnace	CO 1.31	5.98	
		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 1.31	5.98	
		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

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	TPY
EM5	Cooling Tower No. 5	VOC	1.01	4.42
EM23	Decoking Vent B-6101A, B	CO 11.67	1.40	
		PM_{10}	6.67	0.80
		SO_2	0.33	0.04
EM24	Decoking Vent B-6101C, D	CO 11.67	1.40	
		PM_{10}	6.67	0.80
		SO_2	0.33	0.04
EM25	Decoking Vent B-6151A, B	CO 10.00	1.20	
		PM_{10}	5.83	0.70
		SO_2	0.33	0.04
EM27	Decoking Vent B-2101A, B	CO 54.00	2.40	
		PM_{10}	31.00	1.40
		SO_2	1.60	0.07
EM28	Decoking Vent B-2101C, D	CO 54.00	2.40	
		PM_{10}	31.00	1.40
		SO_2	1.60	0.07
EM29	Decoking Vent B-2101E	CO 54.00	1.20	
		PM_{10}	31.00	0.70
		SO_2	1.60	0.04
EM30	Decoking Vent B-2101F	CO 54.00	1.20	
		PM_{10}	31.00	0.70
		SO_2	1.60	0.04
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

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AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	TPY
	2.16			
EM34	Ethylene Unit Carbon Canisters	VOC (5)		0.49
EM6301	Decoking Vent B-6301A, B	CO	27.06	1.20
		PM_{10}	12.07	0.54
		SO_2	0.81	0.04
EF1	Ethylene Unit Fugitives (4)	VOC		38.74
	169.70			
EF6	Rail Loading Fugitives (4)	VOC	0.67	2.95
EF7	USC II Fugitives (4)	VOC	15.98	70.01
EF8	USC-I Fugitives (4)	VOC	15.51	67.93
EF9	Tank Farm Fugitives (4)	VOC	15.66	68.61
EF12	RGCB Fugitives (4)	VOC	4.55	19.94
EF14	Tank 36 Area Fugitives (4)	VOC	1.23	5.41
EF16	Offsite Flare Fugitives (4)	VOC		0.63
	2.74			
EF18	P/P Splitter Fugitives (4)	VOC	1.24	5.43

(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 General Rule 101.1

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	TPY

PM_{10} - particulate matter less than 10 microns in diameter
NO_x - total oxides of nitrogen
SO_2 - sulfur dioxide
CO - carbon monoxide

(4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.

(5) The total annual combined emission rate from EPNs EM33 and EM34 shall not exceed 2.16 tons per year.

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

_____Hrs/day ____Days/week ____Weeks/year or 8,760 Hrs/year

Dated _____