EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 6825A

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) Name (3)	Air Contaminant lb/hr TPY	<u>Emissior</u>	n Rates *
E-01-146	H-101 Heater (425 MMBTU/HR, LHV)	CO NO _x (5) NO _x PM SO ₂ VOC	21.25 127.50 34.00 2.66 5.29 0.74	93.1 558.5 148.9 11.6 23.2 3.3
E-02-146	H-102A Heater (101.5 MMBTU/HR, LHV) Common Stack	CO NO_x (5) NO_x PM SO_2 VOC	5.08 30.45 8.12 0.63 1.26 0.18	22.2 133.4 35.6 2.8 5.5 0.8
E-02-146	H-102B Heater (101.5 MMBTU/HR, LHV) Common Stack	CO NO _x (5) NO _x PM SO ₂ VOC	5.08 30.45 8.12 0.63 1.26 0.18	22.2 133.4 35.6 2.8 5.5 0.8
E-01-244	F-101 Heater (33 MMBTU/HR, LHV) Common Stack	CO NO _x PM SO ₂ VOC	1.44 3.96 0.21 0.41 0.12	6.3 17.3 0.9 1.8 0.51
E-01-244	F-102 Heater (33 MMBTU/HR, LHV) Common Stack	CO NO _x PM SO ₂ VOC	1.44 3.96 0.21 0.41 0.12	6.3 17.3 0.9 1.8 0.51

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AIR CONTAMINANTS DATA

Emission Source	Air Contaminant <u>Emissior</u>	Rates *		
Point No. (1) Name	e (2) Name (3) lb/hr	TPY		
E-01-841	H-1B Heater (133 MMBTU/HR, LHV)	CO NO _x PM SO ₂ VOC	4.22 13.30 0.53 1.05 0.15	18.5 58.3 2.3 4.6 0.65
E-01-1242	B-102 Heater (151 MMBTU/HR, LHV)	CO NO _x (5) NO _x PM SO ₂ VOC	7.55 45.30 12.08 0.94 1.88 0.27	33.1 198.4 52.9 4.1 8.2 1.2
E-01-1344	H-1 Heater (451 MMBTU/HR, LHV)	CO NO _x (5) NO _x PM SO ₂ VOC	22.55 135.30 36.08 2.82 5.62 0.79	98.8 592.6 158.0 12.3 24.6 3.5
E-02-1344	H-31 Heater (100 MMBTU/HR, LHV) Common Stack	CO NO _x (5) NO _x PM SO ₂ VOC	5.00 30.00 8.00 0.62 1.24 0.35	21.9 131.4 35.0 2.7 5.5 1.53
E-02-1344	H-33 Heater (35 MMBTU/HR, LHV) Common Stack	CO NO _x (5) NO _x PM SO ₂ VOC	1.53 6.12 2.80 0.22 0.44 0.12	6.7 26.8 12.3 1.0 1.9 0.54
E-03-1344	H-2 Heater (31 MMBTU/HR, LHV) Common Stack	CO NO _x (5) NO _x PM SO ₂ VOC	1.36 5.43 2.48 0.19 0.39 0.11	5.9 23.8 10.9 0.8 1.7 0.48
E-03-1344	H-3 Heater	СО	1.09	4.8

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AIR CONTAMINANTS DATA

Emission Source	_	Emission Rates *		
Point No. (1) Name		lb/hr TPY		
	(25 MMBTU/HR, LHV)	NO _x (5)	4.38	19.2
	Common Stack	NO _x	2.00	8.8
		PM	0.16	0.7
		SO ₂	0.31	1.4
		VOC	0.09	0.38
E-03-1344	H-32 Heater	CO	2.23	9.8
	(51 MMBTU/HR, LHV)	NO _x (5)	8.93	39.1
	Common Stack	NO_x	4.08	17.9
		PM	0.32	1.4
		SO_2	0.63	2.8
		VOC	0.18	0.78
F-146	Fugitives (4) (6)	VOC	30.82	135.0
F-146	Fugitives (4)	VOC	6.53	28.6
F-244	Fugitives (4) (6)	VOC	9.25	40.5
F-244	Fugitives (4)	VOC	1.95	8.5
F-841	Fugitives (4) (6)	VOC	9.48	41.5
F-841	Fugitives (4)	VOC	2.10	9.2
F-1242	Fugitives (4) (6)	VOC	34.80	152.4
F-1242	Fugitives (4)	VOC	7.72	33.8
F-1344	Fugitives (4) (6)	VOC	27.16	119.0
F-1344	Fugitives (4)	VOC	6.46	28.3
1792	Crude Oil Tank	VOC	7.68	13.1
1793	Crude Oil Tank	VOC	7.68	13.1
F-366CT	Cooling Tower (4) (6)	VOC	18.00	78.8
F-366CT	Cooling Tower (4)	VOC	2.10	9.2
F-233 CT	Cooling Tower (4) (6)	VOC	4.50	19.7

F-233 CT	Cooling Tower (4)	VOC	0.46	2.3
F-136BCT	Cooling Tower (4) (6)	VOC	23.77	104.1
F-136BCT	Cooling Tower (4)	VOC	2.76	12.1
F-360-PS	Cooling Tower (4) (6)	VOC	7.92	34.7
F-360-PS	Cooling Tower (4)	VOC	0.91	4.0
F-19	No. 19 Flare	(non-routine service only)		

- (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.

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EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

- (3) CO carbon monoxide
 - NO_x total oxides of nitrogen
 - PM particulate matter
 - SO_2 sulfur dioxide
 - VOC volatile organic compounds as defined in General Rule 101.1
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) These interim limits are in effect from the date of permit amendment until upgrade of the burners has been completed pursuant to Special Condition No. 2.
- (6) These interim limits are in effect from the date of permit amendment until upgrade of the fugitive monitoring programs pursuant to Special Condition No. 10.
- * Emission rates are based on and the facilities are limited by the following maximum operating schedule:

Hrs/day	_Days/week	Weeks/year	_or Hrs/ye	ear <u>8,760</u>
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