

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

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY
E-01-841	H-1B Heater (133 MMBTU/HR, LHV)	SO <sub>2</sub>	0.41	1.8
		VOC	0.12	0.51
		CO	4.22	18.5
		NO <sub>x</sub>	13.30	58.3
		PM	0.53	2.3
		SO <sub>2</sub>	1.05	4.6
		VOC	0.15	0.65
E-01-1242	B-102 Heater (151 MMBTU/HR, LHV)	CO	7.55	33.1
		NO <sub>x</sub> (5)	45.30	198.4
		NO <sub>x</sub>	12.08	52.9
		PM	0.94	4.1
		SO <sub>2</sub>	1.88	8.2
		VOC	0.27	1.2
E-01-1344	H-1 Heater (451 MMBTU/HR, LHV)	CO	22.55	98.8
		NO <sub>x</sub> (5)	135.30	592.6
		NO <sub>x</sub>	36.08	158.0
		PM	2.82	12.3
		SO <sub>2</sub>	5.62	24.6
		VOC	0.79	3.5
E-02-1344	H-31 Heater (100 MMBTU/HR, LHV) Common Stack	CO	5.00	21.9
		NO <sub>x</sub> (5)	30.00	131.4
		NO <sub>x</sub>	8.00	35.0
		PM	0.62	2.7
		SO <sub>2</sub>	1.24	5.5
		VOC	0.35	1.53
E-02-1344	H-33 Heater (35 MMBTU/HR, LHV) Common Stack	CO	1.53	6.7
		NO <sub>x</sub> (5)	6.12	26.8
		NO <sub>x</sub>	2.80	12.3
		PM	0.22	1.0
		SO <sub>2</sub>	0.44	1.9
		VOC	0.12	0.54

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			lb/hr	TPY
E-03-1344	H-2 Heater (31 MMBTU/HR, LHV) Common Stack	CO	1.36	5.9
		NO <sub>x</sub> (5)	5.43	23.8
		NO <sub>x</sub>	2.48	10.9
		PM	0.19	0.8
		SO <sub>2</sub>	0.39	1.7
		VOC	0.11	0.48
E-03-1344	H-3 Heater (25 MMBTU/HR, LHV) Common Stack	CO	1.09	4.8
		NO <sub>x</sub> (5)	4.38	19.2
		NO <sub>x</sub>	2.00	8.8
		PM	0.16	0.7
		SO <sub>2</sub>	0.31	1.4
		VOC	0.09	0.38
E-03-1344	H-32 Heater (51 MMBTU/HR, LHV) Common Stack	CO	2.23	9.8
		NO <sub>x</sub> (5)	8.93	39.1
		NO <sub>x</sub>	4.08	17.9
		PM	0.32	1.4
		SO <sub>2</sub>	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)	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

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			<u>lb/hr</u>	<u>TPY</u>
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)	VOC	2.10	9.2
F-233 CT	Cooling Tower (4)	VOC	0.46	2.3
F-136BCT	Cooling Tower (4)	VOC	2.76	12.1
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.
- (3) CO - carbon monoxide  
NO<sub>x</sub> - total oxides of nitrogen  
PM - particulate matter  
SO<sub>2</sub> - 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/year 8,760

Dated\_\_\_\_\_