

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 75317

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	TPY**
211A	1st Stage LNG Vaporizer (50.1 MMBtu/hr SCV)	NO _x	1.85	8.12
		CO	1.50	6.58
		VOC 0.27	1.18	
		PM 0.37	1.64	
		SO ₂ (6) 0.74	0.13	
211B	1st Stage LNG Vaporizer (50.1 MMBtu/hr SCV)	NO _x	1.85	8.12
		CO	1.50	6.58
		VOC 0.27	1.18	
		PM 0.37	1.64	
		SO ₂ (6) 0.74	0.13	
221A	1st Stage LNG Vaporizer (50.1 MMBtu/hr SCV)	NO _x	1.85	8.12
		CO	1.50	6.58
		VOC 0.27	1.18	
		PM 0.37	1.64	
		SO ₂ (6) 0.74	0.13	
221B	1st Stage LNG Vaporizer (50.1 MMBtu/hr SCV)	NO _x	1.85	8.12
		CO	1.50	6.58
		VOC 0.27	1.18	
		PM 0.37	1.64	
		SO ₂ (6) 0.74	0.13	
231A	1st Stage LNG Vaporizer (50.1 MMBtu/hr SCV)	NO _x	1.85	8.12
		CO	1.50	6.58
		VOC 0.27	1.18	
		PM 0.37	1.64	
		SO ₂ (6) 0.74	0.13	

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			lb/hr	TPY**
231B	1st Stage LNG Vaporizer (50.1 MMBtu/hr SCV)	NO _x	1.85	8.12
		CO	1.50	6.58
		VOC 0.27	1.18	
		PM 0.37	1.64	
		SO ₂ (6) 0.74	0.13	
217A	2nd Stage LNG Vaporizer (79.2 MMBtu/hr SCV)	NO _x	2.93	12.84
		CO	2.38	10.41
		VOC 0.43	1.87	
		PM 0.59	2.58	
		SO ₂ (6) 1.16	0.20	
217B	2nd Stage LNG Vaporizer (79.2 MMBtu/hr SCV)	NO _x	2.93	12.84
		CO	2.38	10.41
		VOC 0.43	1.87	
		PM 0.59	2.58	
		SO ₂ (6) 1.16	0.20	
227A	2nd Stage LNG Vaporizer (79.2 MMBtu/hr SCV)	NO _x	2.93	12.84
		CO	2.38	10.41
		VOC 0.43	1.87	
		PM 0.59	2.58	
		SO ₂ (6) 1.16	0.20	
227B	2nd Stage LNG Vaporizer (79.2 MMBtu/hr SCV)	NO _x	2.93	12.84
		CO	2.38	10.41
		VOC 0.43	1.87	
		PM 0.59	2.58	
		SO ₂ (6) 1.16	0.20	
237A	2nd Stage LNG Vaporizer (79.2 MMBtu/hr SCV)	NO _x	2.93	12.84
		CO	2.38	10.41
		VOC 0.43	1.87	
		PM 0.59	2.58	
		SO ₂ (6) 1.16	0.20	

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**
237B	2nd Stage LNG Vaporizer (79.2 MMBtu/hr SCV)	NO _x	2.93	12.84
		CO	2.38	10.41
		VOC 0.43	1.87	
		PM 0.59	2.58	
		SO ₂ (6) 1.16	0.20	
HT-411	Natural Gas Heater for Heating Medium System (15.7 MMBtu/hr Heater)	NO _x	1.41	6.19
		CO	1.16	5.09
		VOC	0.08	0.37
		PM 0.12	0.51	
		SO ₂ (6) 0.23	0.04	
HT-421	Natural Gas Heater for Heating Medium System (15.7 MMBtu/hr Heater)	NO _x	1.41	6.19
		CO	1.16	5.09
		VOC	0.08	0.37
		PM 0.12	0.51	
		SO ₂ (6) 0.23	0.04	
HT-431	Natural Gas Heater for Heating Medium System (15.7 MMBtu/hr Heater)	NO _x	1.41	6.19
		CO	1.16	5.09
		VOC	0.08	0.37
		PM 0.12	0.51	
		SO ₂ (6) 0.23	0.04	
G-704	Natural Gas Fueled (5) Emergency Generator Solar Mars 100-1500S	NO _x	11.15	0.56
		CO	13.58	0.68
		VOC	3.89	0.19
		PM 0.74	0.04	
		SO ₂ (6) 9.52	0.48	
G-705	Natural Gas Fueled (5) Emergency Generator Solar Mars 100-1500S	NO _x	11.15	0.56
		CO	13.58	0.68
		VOC	3.89	0.19
		PM 0.74	0.04	
		SO ₂ (6) 9.52	0.48	

EMISSIONS FROM SOURCES MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**
EG-706	Diesel Fueled Emergency (5) Generator (670-hp Caterpillar 3456 ATAAC)	NO _x	9.00	0.45
		CO	0.71	0.04
		SO ₂	1.37	0.07
		VOC	0.09	<0.01
		PM ₁₀	0.06	<0.01
FW-1	Diesel Firewater Pump (5) (660-hp Caterpillar G3412)	NO _x	12.21	0.61
		CO	0.55	0.03
		SO ₂	1.35	0.07
		VOC	0.07	<0.01
		PM ₁₀	1.24	0.06
FW-2	Diesel Firewater Pump (5) (660-hp Caterpillar G3412)	NO _x	12.21	0.61
		CO	0.55	0.03
		SO ₂	1.35	0.07
		VOC	0.07	<0.01
		PM ₁₀	1.24	0.06
FW-3	Diesel Firewater Pump (5) (660-hp Caterpillar G3412)	NO _x	12.21	0.61
		CO	0.55	0.03
		SO ₂	1.35	0.07
		VOC	0.07	<0.01
		PM ₁₀	1.24	0.06
ZZZ-612	Emergency Flare Pilot	NO _x	0.04	0.17
		CO	0.08	0.34
		VOC	0.21	0.94
		SO ₂	<0.01	<0.01
CV	Cold Vent	VOC	<0.01	<0.01
FUG	Fugitives (4)	VOC	1.46	6.38

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

- (1) Emission point identification - either specific equipment designation or emission point number from a plot plan.
- (2) Specific point source names. For fugitive sources, use an area name or fugitive source name.
- (3) NO_x - total oxides of nitrogen
CO - carbon monoxide
VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
PM - particulate matter, suspended in the atmosphere, including PM₁₀
PM₁₀ - particulate matter equal to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no PM greater than 10 microns is emitted.
SO₂ - sulfur dioxide
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate
- (5) Annual rates for emergency generators and fire water pumps are based on 100 hours per year (hrs/yr) for non-emergency maintenance and testing.
- (6) The SO₂ limits are based upon 5.0 grains per standard cubic feet of sulfur for hourly limits and on 0.2 grains per standard cubic feet for the annual limits except for emergency generators.

* 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

** Compliance with annual emission limits is based on a rolling 12-month period.

Dated December 6, 2005