

Emission Sources - Maximum Allowable Emission Rates

Permit Number 3706

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, sources, and related activities. 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	
			lbs/hour	TPY (4)
Case I: For Boiler No. 3, the emission rates shown below are based on 8760 hours of natural gas firing. Also, the emissions rates apply to both planned MSS and normal operations.				
BOILER 03	Boiler No. 3 (5) (493 MMBtu/hr)	NO _x	98.60	431.87
		CO	37.78	165.50
		SO ₂	6.43	28.15
		PM	3.42	14.97
		VOC	2.47	10.84
		H ₂ SO ₄	0.10	0.43
Case II: For Boiler No. 3, the emission rates shown below are based on 672 hours of No. 2 fuel oil firing and 8088 hours of natural gas firing. Also, the emissions rates apply to both planned MSS and normal operations.				
BOILER 03	Boiler No. 3 (5) (467 MMBtu/hr)	NO _x	140.10	445.81
		CO	37.78	158.73
		SO ₂	149.32	76.16
		PM	7.06	16.20
		VOC	2.68	10.91
		H ₂ SO ₄	2.29	1.17
ENG-LUBE-A	Engine No. 1 Lube Oil System Vent	VOC	0.34	1.26
ENG-LUBE-B	Engine No. 2 Lube Oil System Vent	VOC	0.34	1.26
ENG-LUBE-C	Engine No. 3 Lube	VOC	0.34	1.26

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	Oil System Vent			
BLR-LUBE	Boiler No. 3 Lube Oil System Vent	VOC	0.07	0.29
MSSFUG	Fugitive Emissions from Analytical Instruments	VOC	0.01	<0.01
MSSFUG	Fugitive Emissions from CEMS Calibration	NO _x	<0.01	<0.01
MSSFUG	Fugitive Emissions from Natural Gas Fuel Line Venting	VOC	0.14	0.08
		H ₂ S	<0.01	<0.01
MSSFUG	Fugitive Emissions from Fin Fan Cleaning	PM	1.48	<0.01
		PM ₁₀	0.45	<0.01
		PM _{2.5}	0.05	<0.01
MSSFUG	Fugitive Emissions from Acetylene & Torch Cutting	PM	<0.01	<0.01
		NO _x	0.01	0.01
		CO	0.01	<0.01
		VOC	<0.01	<0.01
MSSFUG	Fugitive Emissions from Oil-Water Separator Tank Sludge Cleaning	VOC	0.03	<0.01
MSSFUG	Fugitive Emissions from Natural Gas Condensate Knockout	VOC	31.98	0.02
FUELFUG	Fuel System Component Fugitives	VOC	1.45	6.35
		H ₂ S	<0.01	0.01

(1) Emission point identification - either specific equipment designation or emission point number from plot plan.

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- (2) Specific point source name. For fugitive sources, use area name or fugitive source name.
- (3) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
 - NO_x - total oxides of nitrogen
 - SO₂ - sulfur dioxide
 - PM - particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5}
 - PM₁₀ - particulate matter equal to or less than 10 microns in diameter
 - PM_{2.5} - particulate matter equal to or less than 2.5 microns in diameter
 - CO - carbon monoxide
 - H₂SO₄ - sulfuric acid
 - H₂S - hydrogen sulfide
- (4) Compliance with annual emission limits (tons per year) is based on a 12-month rolling period.
- (5) The emission limits for combusting both natural gas and fuel oil during an averaging period are calculated as the average of the limits for each fuel proportionally weighted by each fuel's heat input to the unit during the period.

Date: February 2,

2012