

# Emission Sources - Maximum Allowable Emission Rates

Permit Number 120335

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)
HB00200R	Rental Steam Boiler (Will be shut down when HB00200 commences operation)	NO <sub>x</sub>	7.78	17.04
		NO <sub>x</sub> (MSS)	11.67	
		CO	38.90	63.04
		VOC	2.06	9.03
		PM	1.95	8.52
		PM <sub>10</sub>	1.95	8.52
		PM <sub>2.5</sub>	1.95	8.52
		SO <sub>2</sub>	11.94	18.73
		NH <sub>3</sub>	1.73	7.56
HB00200	Olefins Tail Gas Boiler	NO <sub>x</sub>	8.18	17.91
		NO <sub>x</sub> (MSS)	12.27	
		CO	40.90	66.28
		VOC	2.17	9.49
		PM	2.05	8.96
		PM <sub>10</sub>	2.05	8.96
		PM <sub>2.5</sub>	2.05	8.96
		SO <sub>2</sub>	12.56	19.69
		NH <sub>3</sub>	1.90	8.32
FUGOTGBOIL	Piping Fugitives (5)	VOC	0.21	0.89
		NH <sub>3</sub>	0.05	0.22

(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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- (3) VOC - volatile organic compounds  
NO<sub>x</sub> - total oxides of nitrogen  
SO<sub>2</sub> - sulfur dioxide  
PM - total particulate matter, suspended in the atmosphere, including PM<sub>10</sub> and PM<sub>2.5</sub>, as represented  
PM<sub>10</sub> - total particulate matter equal to or less than 10 microns in diameter, including PM<sub>2.5</sub>, as represented  
PM<sub>2.5</sub> - particulate matter equal to or less than 2.5 microns in diameter  
CO - carbon monoxide  
NH<sub>3</sub> - ammonia
- (4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period. Annual emission rates include normal and planned MSS emissions.
- (5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.

Date: November 30, 2016