

# Emission Sources - Maximum Allowable Emission Rates

Permit Number 38296

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)
14BOILERST	Utility Boiler (300 MMBtu/hr)	NO <sub>x</sub> (6)	6.00	13.14
		CO (7)	21.00	45.99
		VOC	1.62	7.09
		PM	2.24	9.79
		PM <sub>10</sub>	2.24	9.79
		PM <sub>2.5</sub>	2.24	9.79
		SO <sub>2</sub>	4.20	18.38
		NH <sub>3</sub> (7)	1.35	5.91
AUXBOIL1 through AUXBOIL4	Auxiliary Steam Boilers 1 - 4	NO <sub>x</sub>	---	67.45
		CO	---	464.30
		VOC	---	16.45
		PM	---	56.40
		PM <sub>10</sub>	---	56.40
		PM <sub>2.5</sub>	---	56.40
		SO <sub>2</sub>	---	18.87
		NH <sub>3</sub>	---	28.28
AUXBOIL1	Auxiliary Steam Boiler 1 (385 MMBtu/hr)	NO <sub>x</sub> (6) (8)	3.85	---
		NO <sub>x</sub> (6) (9)	5.78	---
		CO (7)	26.50	---
		VOC	7.30	---
		PM	7.80	---
		PM <sub>10</sub>	7.80	---
		PM <sub>2.5</sub>	7.80	---
		SO <sub>2</sub>	3.43	---

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		NH <sub>3</sub> (7)	1.61	---
AUXBOIL2	Auxiliary Steam Boiler 2 (385 MMBtu/hr)	NO <sub>x</sub> (6) (8)	3.85	---
		NO <sub>x</sub> (6) (9)	5.78	---
		CO (7)	26.50	---
		VOC	7.30	---
		PM	7.80	---
		PM <sub>10</sub>	7.80	---
		PM <sub>2.5</sub>	7.80	---
		SO <sub>2</sub>	3.43	---
		NH <sub>3</sub> (7)	1.61	---
AUXBOIL3	Auxiliary Steam Boiler 3 (385 MMBtu/hr)	NO <sub>x</sub> (6) (8)	3.85	---
		NO <sub>x</sub> (6) (9)	5.78	---
		CO (7)	26.50	---
		VOC	7.30	---
		PM	7.80	---
		PM <sub>10</sub>	7.80	---
		PM <sub>2.5</sub>	7.80	---
		SO <sub>2</sub>	3.43	---
		NH <sub>3</sub> (7)	1.61	---
AUXBOIL4	Auxiliary Steam Boiler 4 (385 MMBtu/hr)	NO <sub>x</sub> (6) (8)	3.85	---
		NO <sub>x</sub> (6) (9)	5.78	---
		CO (7)	26.50	---
		VOC	7.30	---
		PM	7.80	---
		PM <sub>10</sub>	7.80	---
		PM <sub>2.5</sub>	7.80	---
		SO <sub>2</sub>	3.43	---
		NH <sub>3</sub> (7)	1.61	---
14FUG	Utilities Area Fugitives (5)	VOC	0.72	3.14

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		CO	3.05	13.35
		NH <sub>3</sub>	0.19	0.83
14MSS	Venting Fuel and Reagent Pipelines at Boiler Shut Down	VOC	4.67	0.03
		CO	61.21	0.40
		NH <sub>3</sub>	8.52	0.09
14ANALYZER	Analyzer Vents	VOC	< 0.01	0.02
		CO	0.05	0.21

- (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) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
- 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.
- (5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.
- (6) NO<sub>x</sub> pound per hour emission rate is based upon a rolling three-hour average period.
- (7) Pound per hour emission rate is based upon a 24-hour rolling average period.
- (8) When firing natural gas only.
- (9) When firing plant fuel gas.

Date: July 12, 2018