

Emission Sources - Maximum Allowable Emission Rates

Permit Number 141260

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)
Boiler No. 7	Boiler No. 7	NO _x	2.25	9.86
		VOC	1.22	5.32
		CO	7.88	34.49
		PM	1.69	7.39
		PM ₁₀	1.69	7.39
		PM _{2.5}	1.69	7.39
		SO ₂	0.14	0.59
ZEUS-CT-15	Cooling Tower	VOC	1.13	2.27
		PM	0.25	0.85
		PM ₁₀	0.17	0.62
		PM _{2.5}	<0.01	<0.01
ZEUS-FL-1	Backup Flare	NO _x	3.84	0.67
		VOC	33.32	1.72
		CO	19.77	3.45
		BF ₃	0.02	<0.01
		HF	0.10	0.04
		SO ₂	0.01	<0.01
ZEUS-FL-2	Emergency Flare	NO _x	0.02	0.08
		VOC	<0.01	<0.01
		CO	0.09	0.39
		SO ₂	<0.01	<0.01

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ZEUS-TO	Thermal Oxidizer	NO _x	2.36	1.96
		VOC	1.69	1.15
		CO	0.28	1.23
		PM	0.29	0.24
		PM ₁₀	0.29	0.24
		PM _{2.5}	0.29	0.24
		BF ₃	0.02	<0.01
		HF	0.10	0.04
		SO ₂	<0.01	<0.01
ZEUS-ENG	Emergency Generator	NO _x	1.92	0.10
		VOC	0.06	<0.01
		CO	0.24	0.01
		PM	0.05	<0.01
		PM ₁₀	0.05	<0.01
		PM _{2.5}	0.05	<0.01
		SO ₂	<0.01	<0.01
ZEUS-LOAD	Loading Operation	VOC	1.24	0.05
ZEUS-FUG	Fugitives (5)	VOC	2.06	9.03
ZEUS-WWTK	Wastewater Tank	VOC	<0.01	<0.01
ZEUS-CAS	Carbon Adsorption System	VOC	<0.01	<0.01
ZEUS-NaOH	Caustic Tank	NaOH	<0.01	<0.01
ZEUS-MSS	MSS Activities	VOC	21.12	0.09

- (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_x - total oxides of nitrogen
SO₂ - sulfur dioxide
PM - total particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5}, as represented
PM₁₀ - total particulate matter equal to or less than 10 microns in diameter, including PM_{2.5}, as represented
PM_{2.5} - particulate matter equal to or less than 2.5 microns in diameter
CO - carbon monoxide
NaOH - sodium hydroxide

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BF₃ - boron trifluoride
HF - hydrogen fluoride

(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.

Date: June 29, 2017