

Emission Sources - Maximum Allowable Emission Rates

Permit Number 43833

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	
			lb/hour	TPY (4)
1	Engine Testing Facilities Research Area (5)	NO _x	640	330
		CO	616	318
		VOC	142	66
		PM	83	33
		PM ₁₀	83	33
		PM _{2.5}	83	33
		SO ₂	100	39
		Pb	0.5	0.25
		Benzene	1	1
2A	Analytical and Environmental Chemistry Laboratories (5)	VOC	12	12
2B	Chemical Engineering Research Department Laboratories (5)	NO _x	10	5
		CO	10	5
		VOC	20	10
		PM ₁₀	0.6	0.3
		PM _{2.5}	0.6	0.3
		SO ₂	1.0	0.5
2C	Microencapsulation and Nanotechnology Laboratories (5)	VOC	4.0	2
		PM ₁₀	2.0	1
		PM _{2.5}	2.0	1

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3	Fire Technology Research Area (5)	NO _x	23	2.9
		CO	226	7.0
		VOC	83.5	3.8
		PM	40	15
		PM ₁₀	4.0	0.21
		PM _{2.5}	4.0	0.21
		SO ₂	5.3	1.1
		SiO ₂	2.8	0.14
4	Metering Research Facility Flare (5)	NO _x	4.28	0.2
		CO	23.3	1.0
		VOC	8.82	0.4
		PM	0.33	0.03
		PM ₁₀	0.33	0.03
		PM _{2.5}	0.33	0.03
		SO ₂	<0.01	<0.01
5	Metering Research Facility (5) Gas Turbine (1,250 hp)	NO _x	12	6
		CO	12	6
		VOC	10	5
		PM	0.3	0.15
		PM ₁₀	0.3	0.15
		PM _{2.5}	0.3	0.15
		SO ₂	0.2	0.1
50	VOC Storage Tanks Group (5)	VOC	15.5	45
10 thru 20	High Pressure Part Washers (9 Total) (5)	VOC	33.6	8.4
23 and 24	Paint Spray Booths - Bldg. 152 (5) Facility Operations	VOC	12.0	2.5

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		PM	0.045	<0.01
		PM ₁₀	0.043	<0.01
		PM _{2.5}	0.042	<0.01
27	Paint Spray Booth - Bldg. 173 (5) Signals Research	VOC	7.2	1.5
		PM	0.046	<0.01
		PM ₁₀	0.044	<0.01
		PM _{2.5}	0.042	<0.01
28	Paint Spray Booth - Bldg. 266 (5) Space Sciences	VOC	0.5	0.1
		PM	<0.01	<0.01
		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
29	Paint Spray Booth - Bldg. 223 (5) Space Sciences	VOC	0.5	0.1
		PM	<0.01	<0.01
		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
31	Emergency Generator - Bldg. 90 (5)	NO _x	6.0	0.3
		CO	5.0	0.25
		VOC	2.0	0.1
		PM	1.0	0.05
		PM ₁₀	1.0	0.05
		PM _{2.5}	1.0	0.05
		SO ₂	1.0	0.05
32	Emergency Generator - Bldg. 146 (5)	NO _x	6.0	0.3
		CO	5.0	0.25
		VOC	2.0	0.1
		PM	1.0	0.05

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		PM ₁₀	1.0	0.05
		PM _{2.5}	1.0	0.05
		SO ₂	1.0	0.05
33	Emergency Generator - Bldg. 180 (5)	NO _x	6.0	0.3
		CO	5.0	0.25
		VOC	2.0	0.1
		PM	1.0	0.05
		PM ₁₀	1.0	0.05
		PM _{2.5}	1.0	0.05
		SO ₂	1.0	0.05
34	Emergency Generator - Bldg. 146 (5)	NO _x	6.0	0.3
		CO	5.0	0.25
		VOC	2.0	0.1
		PM	1.0	0.05
		PM ₁₀	1.0	0.05
		PM _{2.5}	1.0	0.05
		SO ₂	1.0	0.05
35	Emergency Generator – Bldg. 86B (5) Fire Water Pumps	NO _x	6.0	0.3
		CO	5.0	0.25
		VOC	2.0	0.1
		PM	1.0	0.05
		PM ₁₀	1.0	0.05
		PM _{2.5}	1.0	0.05
		SO ₂	1.0	0.05
36	Emergency Generator - Bldg. 124 (5)	NO _x	6.0	0.3

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		CO	5.0	0.25
		VOC	2.0	0.1
		PM	1.0	0.05
		PM ₁₀	1.0	0.05
		PM _{2.5}	1.0	0.05
		SO ₂	1.0	0.05
37	Emergency Generator – Bldg. 253(5) West Campus Booster Station	NO _x	6.0	0.3
		CO	5.0	0.25
		VOC	2.0	0.1
		PM	1.0	0.05
		PM ₁₀	1.0	0.05
		PM _{2.5}	1.0	0.05
		SO ₂	1.0	0.05
38	Emergency Generator – Bldg. 252 (5) Back up for Booster Station	NO _x	6.0	0.3
		CO	5.0	0.25
		VOC	2.0	0.1
		PM	1.0	0.05
		PM ₁₀	1.0	0.05
		PM _{2.5}	1.0	0.05
		SO ₂	1.0	0.05
39	Emergency Generator - Bldg. 261 (5)	NO _x	6.0	0.3
		CO	5.0	0.25
		VOC	2.0	0.1
		PM	1.0	0.05
		PM ₁₀	1.0	0.05

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		PM _{2.5}	1.0	0.05
		SO ₂	1.0	0.05
40	Emergency Generator - Bldg. 209 (5)	NO _x	6.0	0.3
		CO	5.0	0.25
		VOC	2.0	0.1
		PM	1.0	0.05
		PM ₁₀	1.0	0.05
		PM _{2.5}	1.0	0.05
		SO ₂	1.0	0.05
41	Emergency Generator - Bldg. 242 (5)	NO _x	6.0	0.3
		CO	5.0	0.25
		VOC	2.0	0.1
		PM	1.0	0.05
		PM ₁₀	1.0	0.05
		PM _{2.5}	1.0	0.05
		SO ₂	1.0	0.05
42	Emergency Generator - Bldg. 256 (5)	NO _x	6.0	0.3
		CO	5.0	0.25
		VOC	2.0	0.1
		PM	1.0	0.05
		PM ₁₀	1.0	0.05
		PM _{2.5}	1.0	0.05
		SO ₂	1.0	0.05
43	Emergency Generator - Bldg. 152 (5)	NO _x	6.0	0.3
		CO	5.0	0.25

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		VOC	2.0	0.1
		PM	1.0	0.05
		PM ₁₀	1.0	0.05
		PM _{2.5}	1.0	0.05
		SO ₂	1.0	0.05
44	Emergency Generator - Bldg. 238 (5)	NO _x	6.0	0.3
		CO	5.0	0.25
		VOC	2.0	0.1
		PM	1.0	0.05
		PM ₁₀	1.0	0.05
		PM _{2.5}	1.0	0.05
		SO ₂	1.0	0.05
45	Emergency Generator - Bldg. 263 (5)	NO _x	6.0	0.3
		CO	5.0	0.25
		VOC	2.0	0.1
		PM	1.0	0.05
		PM ₁₀	1.0	0.05
		PM _{2.5}	1.0	0.05
		SO ₂	1.0	0.05
46	Emergency Generator - Bldg. 264 (5)	NO _x	6.0	0.3
		CO	5.0	0.25
		VOC	2.0	0.1
		PM	1.0	0.05
		PM ₁₀	1.0	0.05
		PM _{2.5}	1.0	0.05

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		SO ₂	1.0	0.05
47	Emergency Generator - Portable No. 3 (5)	NO _x	6.0	0.3
		CO	5.0	0.25
		VOC	2.0	0.1
		PM	1.0	0.05
		PM ₁₀	1.0	0.05
		PM _{2.5}	1.0	0.05
		SO ₂	1.0	0.05
48	Emergency Generator - Portable No. 4 (5)	NO _x	6.0	0.3
		CO	5.0	0.25
		VOC	2.0	0.1
		PM	1.0	0.05
		PM ₁₀	1.0	0.05
		PM _{2.5}	1.0	0.05
		SO ₂	1.0	0.05
49	Emergency Generator - Bldg. 260 (5)	NO _x	6.0	0.3
		CO	5.0	0.25
		VOC	2.0	0.1
		PM	1.0	0.05
		PM ₁₀	1.0	0.05
		PM _{2.5}	1.0	0.05
		SO ₂	1.0	0.05
99	Miscellaneous Laboratory Sources (5)	VOC	10.0	5.0

(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 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
SiO₂ - silicon dioxide
Pb - lead
- (4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.
- (5) The pound per hour and ton per year emission rates included emissions from maintenance, startup, and shutdown.

Date: August 21, 2013