

# Emission Sources - Maximum Allowable Emission Rates

Permit Number 169664

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)
BLR-1	Steam Boiler	VOC	0.16	0.70
		NO <sub>x</sub>	1.37	5.99
		CO	1.56	6.85
		PM	0.39	1.71
		PM <sub>10</sub>	0.39	1.71
		PM <sub>2.5</sub>	0.39	1.71
		SO <sub>2</sub>	0.04	0.17
FW-1	Diesel Emerg. Fire Water Pump Engine #1, 350 hp	VOC	0.48	0.01
		NO <sub>x</sub>	2.31	0.06
		CO	2.01	0.05
		PM	0.12	<0.01
		PM <sub>10</sub>	0.12	<0.01
		PM <sub>2.5</sub>	0.12	<0.01
		SO <sub>2</sub>	0.71	0.02
FW-2	Diesel Emerg. Fire Water Pump Engine #2, 350 hp	VOC	0.48	0.01
		NO <sub>x</sub>	2.31	0.06
		CO	2.01	0.05
		PM	0.12	<0.01
		PM <sub>10</sub>	0.12	<0.01
		PM <sub>2.5</sub>	0.12	<0.01
		SO <sub>2</sub>	0.71	0.02
GEN-01	Diesel Emerg. Electric Generator, 470 hp	VOC	0.01	<0.01
		NO <sub>x</sub>	4.75	0.12
		CO	1.4	0.04

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		PM	0.10	<0.01
		PM <sub>10</sub>	0.10	<0.01
		PM <sub>2.5</sub>	0.10	<0.01
		SO <sub>2</sub>	0.95	0.02
CWT-01	Cooling Water Tower	VOC	0.15	0.55
		PM	<0.01	0.02
		PM <sub>10</sub>	<0.01	0.02
		PM <sub>2.5</sub>	<0.01	0.02
T206	Raw Material / Product Tank	VOC	0.42	0.02
T207	Raw Material / Product Tank	VOC	0.42	0.02
T208	Raw Material / Product Tank	VOC	0.42	0.02
T209	Raw Material / Product Tank	VOC	0.42	0.02
T251	Surfactant Mix Tank	VOC	0.52	<0.01
TK-D-1	Diesel Fuel Tank, 500 gal	VOC	0.03	<0.01
TK-D-2	Diesel Fuel Tank, 500 gal	VOC	0.03	<0.01
TK-D-3	Diesel Fuel Tank, 1,200 gal	VOC	0.07	<0.01
OS-1	Oxide Vent Scrubber	VOC	0.17	0.73
VS-1	Reactor Vent Scrubber	VOC	2.93	0.53
R001/R002	Uncontrolled Emissions from Reactor Steam Jet	VOC	1.02	0.72
LOADING	Product Loading into T/T and R/C	VOC	0.44	0.06
DRUMS	Product Loading into Drums	VOC	0.07	0.10
FUG-01	Site-Wide Fugitive Emissions (5)	VOC	1.50	1.74
WW-N	Wastewater Neutralization	VOC	0.44	1.62
MISC-MSS	MSS-Inherently Low Emitting Activities	VOC	0.03	<0.01
MISC-MSS	MSS-Routine Emitting Activities	VOC	0.37	1.50

- (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

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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

(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: January 31, 2023