Emission Sources - Maximum Allowable Emission Rates

Permit Number 169454

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)
FB021	Steam Boiler #1	VOC	0.03	0.12
		NOx	0.06	0.24
		CO	0.19	0.81
		PM	<0.01	0.02
		PM_{10}	<0.01	0.02
		$PM_{2.5}$	<0.01	0.02
		SO_2	0.03	0.13
FB022	Standby Steam Boiler #2	VOC	0.03	0.06
		NOx	0.06	0.12
		CO	0.19	0.41
		PM	<0.01	0.01
		PM_{10}	<0.01	0.01
		$PM_{2.5}$	<0.01	0.01
		SO_2	0.03	0.06
FW ENG-01	Diesel Emergency Fire Water Pump Engine, 510 hp	VOC	0.12	0.01
		NOx	2.92	0.15
		CO	0.56	0.03
		PM	0.10	0.01
		PM_{10}	0.10	0.01
		$PM_{2.5}$	0.10	<0.01
		SO_2	0.26	0.01
FW ENG-02	Diesel Emergency Fire Water Pump Engine, 460 hp	VOC	0.11	<0.01
		NOx	2.64	0.13
		CO	0.51	0.03

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		PM	0.09	<0.01
		PM_{10}	0.09	<0.01
		$PM_{2.5}$	0.09	<0.01
		SO_2	0.23	0.01
EMERG GEN-01	Nat Gas Emergency Generator Engine, 100 KW	VOC	0.31	<0.01
		NOx	0.30	<0.01
		CO	0.89	0.02
		PM	<0.01	<0.01
		PM_{10}	<0.01	<0.01
		$PM_{2.5}$	<0.01	<0.01
		SO_2	<0.01	<0.01
EMERG GEN-02	Nat Gas Emergency Generator Engine, 100 KW	VOC	0.31	<0.01
		NOx	0.30	<0.01
		CO	0.89	0.02
		PM	<0.01	<0.01
		PM_{10}	<0.01	<0.01
		$PM_{2.5}$	<0.01	<0.01
		SO_2	<0.01	<0.01
CWT-01	Cooling Tower #1	VOC	0.17	0.60
		PM	0.02	0.06
		PM_{10}	0.02	0.06
		$PM_{2.5}$	0.02	0.06
FB170	Hot Oil Boiler	VOC	0.09	0.32
		NO_X	0.16	0.58
		CO	0.54	1.96
		PM	0.14	0.52
		PM_{10}	0.14	0.52
		$PM_{2.5}$	0.14	0.52
		SO_2	<0.01	0.03

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		NH_3	0.07	0.24
T-302	Alcohol (K-1098) Tank	VOC	7.96	0.35
T-303	Alcohol (K-2465) Tank	VOC	7.96	0.69
T-304	Alcohol (K-2098) Tank	VOC	7.96	1.11
T-305	Alcohol (K-4098) Tank	VOC	7.96	0.33
T-306	Alcohol (K-6098) Tank	VOC	7.96	0.17
T-001	Diesel Fuel Tank	VOC	0.09	<0.01
T-002	Diesel Fuel Tank	VOC	0.09	<0.01
V-067	Sulfuric Acid Vessel	H_2SO_4	0.01	<0.01
V-191	Sulfuric Acid Vessel	H_2SO_4	0.01	<0.01
TA-PROCESS EMISSIONS	TA Plant Process Emissions	VOC	0.90	3.95
LOADING-TRUCK & RAILCAR	Product Loading into Tank Trucks and Rail Cars	VOC	1.12	0.32
DRUMS	Product Loading into Drums	VOC	0.16	0.53
FUG-01	Site-Wide Fugitive Emissions (5)	VOC	1.27	5.47
UNF-WW	VOC Emissions from WW Neutralization	VOC	<0.01	<0.01
MSS-ILE	MSS - Inherently Low Emitting Activities	VOC	4.21	0.03
MISC-ROUTINE	MSS - Routine Emitting Activities	VOC	0.87	<0.01
MSS - TANKS	MSS – Tank Cleaning	VOC	0.90	<0.01

(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
SO_2 - sulfur dioxide
PM - total particulate matter, suspended in the atmosphere, including PM_{10} and $PM_{2.5}$, as represented
PM_{10} - 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
NH_3 - ammonia
H_2SO_4 - sulfuric acid
(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.

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Date: February 8, 2023