Emission Sources - Maximum Allowable Emission Rates

Permit Number 95968 and N188

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)
Tank Group 1				
390-103	DEFR Tank 390-103	VOC	7.57	--
		Benzene	0.23	--
390-103 MSS	DEFR Tank 390-103 Uncontrolled	VOC	367.47	--
		Benzene	11.03	--
390-104	DEFR Tank 390-104	VOC	7.57	--
		Benzene	0.23	--
390-104 MSS	DEFR Tank 390-104 Uncontrolled	VOC	367.47	--
		Benzene	11.03	--
390-105	DEFR Tank 390-105	VOC	7.57	--
		Benzene	0.23	--
390-105 MSS	DEFR Tank 390-105 Uncontrolled	VOC	367.47	--
		Benzene	11.03	--
390-112	DEFR Tank 390-112	VOC	7.57	--
		Benzene	0.23	--
390-112 MSS	DEFR Tank 390-112 Uncontrolled	VOC	367.47	--
		Benzene	11.03	--
390-113	DEFR Tank 390-113	VOC	7.57	--
		Benzene	0.23	--
390-113 MSS	DEFR Tank 390-113 Uncontrolled	VOC	367.47	--
		Benzene	11.03	--
390-114	DEFR Tank 390-114	VOC	7.57	--
		Benzene	0.23	--
390-114 MSS	DEFR Tank 390-114 Uncontrolled	VOC	367.47	--
		Benzene	11.03	--

Emission Sources - Maximum Allowable Emission Rates

210-115	DEFR Tank 210-115	VOC	10.31	--
		Benzene	0.31	--
210-115 MSS	DEFR Tank 210-115 Uncontrolled	VOC	259.20	--
		Benzene	7.78	--
210-116	DEFR Tank 210-116	VOC	10.31	--
		Benzene	0.31	--
210-116 MSS	DEFR Tank 210-116 Uncontrolled	VOC	259.20	--
		Benzene	7.78	--
210-119	DEFR Tank 210-119	VOC	10.31	--
		Benzene	0.31	--
210-119 MSS	DEFR Tank 210-119 Uncontrolled	VOC	259.20	--
		Benzene	7.78	--
210-120	DEFR Tank 210-120	VOC	10.31	--
		Benzene	0.31	--
210-120 MSS	DEFR Tank 210-120 Uncontrolled	VOC	259.20	--
		Benzene	7.78	--
Tank Group 2				
390-102	DEFR Tank 390-102	VOC	7.57	--
		Benzene	0.23	--
390-102 MSS	DEFR Tank 390-102 Uncontrolled	VOC	367.47	--
		Benzene	11.03	--
390-106	DEFR Tank 390-106	VOC	7.57	--
		Benzene	0.23	--
390-106 MSS	DEFR Tank 390-106 Uncontrolled	VOC	367.47	--
		Benzene	11.03	--
390-107	DEFR Tank 390-107	VOC	7.57	--
		Benzene	0.23	--
390-107 MSS	DEFR Tank 390-107 Uncontrolled	VOC	367.47	--
		Benzene	11.03	--
390-108	DEFR Tank 390-108	VOC	7.57	--
		Benzene	0.23	--
390-108 MSS	DEFR Tank 390-108 Uncontrolled	VOC	367.47	--
		Benzene	11.03	--

Emission Sources - Maximum Allowable Emission Rates

390-109	DEFR Tank 390-109	VOC	7.57	--
		Benzene	0.23	--
390-109 MSS	DEFR Tank 390-109 Uncontrolled	VOC	367.47	--
		Benzene	11.03	--
390-110	DEFR Tank 390-110	VOC	7.57	--
		Benzene	0.23	--
390-110 MSS	DEFR Tank 390-110 Uncontrolled	VOC	367.47	--
		Benzene	11.03	--
320-111	DEFR Tank 320-111	VOC	8.40	--
		Benzene	0.25	--
320-111 MSS	DEFR Tank 320-111 Uncontrolled	VOC	326.70	--
		Benzene	9.81	--
210-117	DEFR Tank 210-117	VOC	10.31	--
		Benzene	0.31	--
210-117 MSS	DEFR Tank 210-117 Uncontrolled	VOC	259.20	--
		Benzene	7.78	--
210-118	DEFR Tank 210-118	VOC	10.31	--
		Benzene	0.31	--
210-118 MSS	DEFR Tank 210-118 Uncontrolled	VOC	259.20	--
		Benzene	7.78	--
127-100	DEFR Tank 127-100	VOC	13.17	--
		Benzene	0.40	--
127-100 MSS	DEFR Tank 127-100 Uncontrolled	VOC	196.79	--
		Benzene	5.91	--
105-101	DEFR Tank 105-101	VOC	14.45	--
		Benzene	0.44	--
105-101 MSS	DEFR Tank 105-101 Uncontrolled	VOC	177.52	--
		Benzene	5.33	--
Tank Group 3				
390-130	DEFR Tank 390-130	VOC	7.58	--
		Benzene	0.23	--
390-130 MSS	DEFR Tank 390-130 Uncontrolled	VOC	367.47	--
		Benzene	11.03	--
390-132	DEFR Tank 390-132	VOC	7.56	--
		Benzene	0.23	--

Emission Sources - Maximum Allowable Emission Rates

390-132 MSS	DEFR Tank 390-132 Uncontrolled	VOC	367.47	--
		Benzene	11.03	--
390-133	DEFR Tank 390-133	VOC	7.56	--
		Benzene	0.23	--
390-133 MSS	DEFR Tank 390-133 Uncontrolled	VOC	367.47	--
		Benzene	11.03	--
390-134	DEFR Tank 390-134	VOC	7.56	--
		Benzene	0.23	--
390-134 MSS	DEFR Tank 390-134 Uncontrolled	VOC	367.47	--
		Benzene	11.03	--
390-128	DEFR Tank 390-128	VOC	7.56	--
		Benzene	0.23	--
390-128 MSS	DEFR Tank 390-128 Uncontrolled	VOC	367.47	--
		Benzene	11.03	--
390-125	DEFR Tank 390-125	VOC	7.56	--
		Benzene	0.23	--
390-125 MSS	DEFR Tank 390-125 Uncontrolled	VOC	367.47	--
		Benzene	11.03	--
390-126	DEFR Tank 390-126	VOC	7.56	--
		Benzene	0.23	--
390-126MSS	DEFR Tank 390-126 Uncontrolled	VOC	367.47	--
		Benzene	11.03	--
390-127	DEFR Tank 390-127	VOC	7.56	--
		Benzene	0.23	--
390-127 MSS	DEFR Tank 390-127 Uncontrolled	VOC	367.47	--
		Benzene	11.03	--
210-129	DEFR Tank 210-129	VOC	10.29	--
		Benzene	0.31	--
210-129 MSS	DEFR Tank 210-129 Uncontrolled	VOC	259.20	--
		Benzene	7.78	--
127-131	DEFR Tank 127-131	VOC	13.17	--
		Benzene	0.40	--
127-131 MSS	DEFR Tank 127-131 Uncontrolled	VOC	196.79	--
		Benzene	5.91	--

Emission Sources - Maximum Allowable Emission Rates

	Caps (Production only)	Benzene	--	1.56
MSS Operations				
	Tank Groups 1 and 2 MSS Uncontrolled VOC and Benzene Compliance Subcaps (Tank MSS Only)	VOC	--	6.22
		Benzene	--	0.36
	Tank Group 3 Plus 390-130 MSS Uncontrolled VOC and Benzene Compliance Subcaps (Tank MSS Only)	VOC	--	2.35
		Benzene	--	0.08
MSS-1	Other MSS	VOC	92.66	--
		Benzene	2.78	--
		NO_x	3.60	--
		CO	46.32	--
PORTVC	Portable Vapor Combustor (4 vapor combustors running simultaneously) for All Sitewide Tank and Other MSS	VOC	156.16	--
		Benzene	1.64	--
		NO_x	3.60	--
		CO	46.32	--
	Annual MSS Compliance Caps (for All Sitewide Uncontrolled Tank Group MSS, MSS-1, and PORTVC)	VOC	--	14.98
		Benzene	--	0.62
		NO_x	3.60	4.78
		CO	46.32	53.53
Equipment Fugitives				
FUG 1	No. 1 Manifold Fugitives (5)	VOC	0.50	2.15
		Benzene	0.03	0.09
FUG 2	No. 2 Manifold Fugitives (5)	VOC	0.03	0.13
		Benzene	0.01	0.01
Oil/Water Separators				
OWS-1	Oil/Water Separator 1	VOC	5.89	0.15
OWS-2	Oil/Water Separator 2	VOC	5.89	0.15
Engines				
EMERGEN1	Emergency Generator Engine 1	VOC	0.18	0.01
		NOx	1.81	0.10
		CO	1.52	0.08
		SO_2	1.12	0.06
		PM_{10}	0.12	0.01
		$PM_{2.5}$	0.10	0.01

Emission Sources - Maximum Allowable Emission Rates

FIREPUMP1	Firepump Engine 1	VOC	0.29	0.12
		NO_x	2.96	1.08
		CO	2.48	0.90
		SO_2	1.83	0.66
		PM_{10}	0.19	0.08
		$PM_{2.5}$	0.16	0.06
FIREPUMP2	Firepump Engine 2	VOC	0.29	0.12
		NOx	2.96	1.08
		CO	2.48	0.90
		SO_2	1.83	0.66
		PM_{10}	0.19	0.08
		$PM_{2.5}$	0.16	0.06
FIREPUMP3	Firepump Engine 3	VOC	0.29	0.12
		NOx	2.96	1.08
		CO	2.48	0.90
		SO_2	1.83	0.66
		PM_{10}	0.19	0.08
		$PM_{2.5}$	0.16	0.06
	Annual Engine Compliance Caps for Emergency Generator Engine 1, Firepump Engine 1, Firepump Engine 2, and Firepump Engine 3	VOC	--	0.25
		NOx	--	2.26
		CO	--	1.88
		SO_2	--	1.38
		PM_{10}	--	0.17
		$PM_{2.5}$	--	0.13
Diesel Tanks				
DTANK-1	Diesel Tank 1	VOC	0.06	0.001
DTANK-2	Diesel Tank 2	VOC	0.06	0.009
DTANK-3	Diesel Tank 3	VOC	0.06	0.009
	Annual Diesel Tank Compliance Cap	VOC	--	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_{10} - total particulate matter equal to or less than 10 microns in diameter, including PM2.5, as represented
$PM_{2.5}$ - particulate matter equal to or less than 2.5 microns in diameter
CO - carbon monoxide

Emission Sources - Maximum Allowable Emission Rates

(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: April 22, 2019