Emission Sources - Maximum Allowable Emission Rates

Permit Number 6235A

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)
B-1	Boiler No. 1 (24.49 MMBtu/hr) (6)	NO_x	0.78	3.43
		SO_2	0.36	1.56
		CO	0.17	0.75
		PM	0.18	0.79
		PM_{10}	0.18	0.79
		$PM_{2.5}$	0.18	0.79
		VOC	0.13	0.57
		HAPs	0.05	0.20
CT-1	Cooling Water Tower	VOC	<0.01	0.02
		PM	0.01	0.04
		PM_{10}	0.01	0.04
		$PM_{2.5}$	<0.01	<0.01
CT-2	Cooling Water Tower	VOC	0.01	0.04
		PM	0.02	0.08
		PM_{10}	0.02	0.07
		$PM_{2.5}$	<0.01	<0.01
F-1	Primary Flares – POC Emissions	NO_x	3.62	0.61
		SO_2	0.01	0.06
		CO	1.13	1.12
		PM	0.58	0.04
		PM_{10}	0.42	0.04
		$PM_{2.5}$	0.38	0.04
		VOC	0.06	0.02
		HAPs	0.01	0.01
F-1	Primary Flare – Process Emissions	VOC	25.10	0.42
		HAPs	8.12	0.27
F-2	Oxides Flare – POC Emissions	NO_x	0.15	0.56
		SO_2	0.01	0.06
		CO	0.26	1.11
		PM	0.01	0.03

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		PM_{10}	0.01	0.03
		$PM_{2.5}$	0.01	0.03
		VOC	0.01	0.02
		HAPs	<0.01	0.01
F-2	Oxides Flare – Process Emissions	VOC	0.18	0.02
		HAPs	0.05	0.02
F-3	Flare 3 – POC Emissions	NO_x	0.13	0.56
		SO_2	0.01	0.06
		CO	0.25	1.11
		PM	0.01	0.03
		PM_{10}	0.01	0.03
		$PM_{2.5}$	0.01	0.03
		VOC	0.01	0.02
		HAPs	<0.01	0.01
F-3	Flare 3 – Process Emissions	VOC	0.04	0.01
		HAPs	<0.01	<0.01
SLOAD	Solids Loading	PM	0.18	0.05
		PM_{10}	0.08	0.02
		$PM_{2.5}$	0.01	<0.01
FE-1	Fire Water Pump Engine	NO_x	1.17	0.06
		SO_2	0.38	0.02
		CO	1.05	0.05
		PM	0.06	<0.01
		PM_{10}	0.06	<0.01
		$PM_{2.5}$	0.06	<0.01
		VOC	0.04	<0.01
		HAPs	0.01	<0.01
FUG-1	Fugitive Area 1 (5)	VOC	0.14	0.62
		HAPs	0.14	0.62
FUG-2	Fugitive Area 2 (5)	VOC	0.14	0.62
		HAPs	0.14	0.62
FUG-3	Fugitive Area 3 (5)	VOC	0.13	0.58
		HAPs	0.13	0.58
FUG-4	Fugitive Area 4 (5)	VOC	0.13	0.55
		HAPs	0.13	0.55
FUG-5	Fugitive Area 5 (5)	VOC	0.16	0.68

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		HAPs	0.16	0.68
FUG-6	Fugitive Area 6 (5)	VOC	0.18	0.79
		HAPs	0.18	0.79
FUG-7	Fugitive Area 7 (5)	VOC	0.14	0.61
		HAPs	0.14	0.61
FUG-8	Fugitive Area 8 (5)	VOC	0.22	0.94
		HAPs	0.22	0.94
FUG-9	Fugitive Area 9 (5)	VOC	0.01	0.04
		HAPs	0.01	0.04
FUG-10	Fugitive Area 10 (5)	VOC	0.01	0.04
		HAPs	0.01	0.04
FUG-11	Fugitive Area 11 (5)	VOC	0.01	0.04
		HAPs	0.01	0.04
FUG-12	Fugitive Area 12 (5)	VOC	0.01	0.04
		HAPs	0.01	0.04
FUG-13	Fugitive Area 13 (5)	VOC	0.01	0.04
		HAPs	0.01	0.04
FUG-14	Fugitive Area 14 (5)	VOC	0.01	0.04
		HAPs	0.01	0.04
FUG-15	Fugitive Area 15 (5)	VOC	0.01	0.04
		HAPs	0.01	0.04
FUG-16	Fugitive Area 16 (5)	VOC	0.01	0.04
		HAPs	0.01	0.04
FUG-17	Fugitive Area 17 (5)	VOC	0.01	0.04
		HAPs	0.01	0.04
FUG-18	Fugitive Area 18 (5)	VOC	0.01	0.04
		HAPs	0.01	0.04
FUG-19	Fugitive Area 19 (5)	VOC	0.01	0.04
		HAPs	0.01	0.04
FUG-20	Fugitive Area 20 (5)	VOC	0.01	0.04
		HAPs	0.01	0.04
H-2	Hot Oil Heater 2 (10.1 MMBtu/hr) (6)	NO_x	1.33	5.84
		SO_2	0.15	0.64
		CO	0.01	0.04
		PM	0.07	0.33
		PM_{10}	0.07	0.33

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		$PM_{2.5}$	0.07	0.33
		VOC	0.05	0.24
		HAPs	0.02	0.08
WW-1	Wastewater Storage Tank	VOC	<0.01	<0.01
		HAPs	<0.01	<0.01
X-105	Process Sump	VOC	<0.01	<0.01
		HAPs	<0.01	<0.01
MSS-C	Controlled Maintenance, Startup, and shutdown (MSS) Emissions	NO_x	0.31	0.02
		CO	0.08	<0.01
		PM	0.05	<0.01
		PM_{10}	0.04	<0.01
		$PM_{2.5}$	0.03	<0.01
		VOC	2.09	0.11
		HAPs	2.09	0.11
MSS-U	Uncontrolled MSS Emissions (7)	VOC	12.22	0.20
		HAPs	12.22	0.20
T-26	Storage Tanks	VOC	3.26	0.11
		HAPs	3.26	0.11
T-31	Storage Tanks	VOC	0.92	0.01
		HAPs	0.92	0.01
T-32	Storage Tanks	Inorganic Acids	<0.01	<0.01
T-601	Storage Tanks	VOC	3.26	0.13
		HAPs	3.26	0.13
T-602	Storage Tanks	VOC	3.26	0.13
		HAPs	3.26	0.13
T-605	Storage Tanks	VOC	0.01	<0.01
		HAPs	0.01	<0.01
T-606	Storage Tanks	VOC	0.04	<0.01
		HAPs	0.02	<0.01
T-607	Storage Tanks	VOC	0.01	<0.01
T-608	Storage Tanks	VOC	0.02	<0.01
T-610	Storage Tanks	VOC	3.26	0.13
		HAPs	3.26	0.13
T-706	Storage Tanks	VOC	0.04	<0.01

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T-707	Storage Tanks	VOC	0.04	<0.01
T-711	Storage Tanks	VOC	0.01	<0.01
		HAPs	0.01	<0.01
T-712	Storage Tanks	VOC	0.14	<0.01
T-713	Storage Tanks	VOC	<0.01	<0.01
T-714	Storage Tanks	VOC	0.13	0.01
		HAPs	0.05	<0.01
T-718	Storage Tanks	VOC	0.65	0.08
		HAPs	0.10	0.01
T-720	Storage Tanks	VOC	1.26	0.12
		HAPs	0.16	0.02
T-721	Storage Tanks	VOC	0.08	0.01
		HAPs	0.01	<0.01
7-723	Storage Tanks	VOC	3.26	0.08
		HAPs	3.26	0.08
T-724	Storage Tanks	VOC	<0.01	<0.01
T-751	Storage Tanks	VOC	3.26	0.20
		HAPs	3.26	0.20
LOAD-1	Drum & Tote Loading	VOC	2.97	-
		HAPs	2.97	-
LOAD-2	Drum & Tote Loading	VOC	2.97	-
		HAPs	2.97	-
LOAD-3	Drum & Tote Loading	VOC	2.97	-
		HAPs	2.97	-
TRUCK LOAD-1	Tank Truck Loading	VOC	3.48	-
		HAPs	3.48	-
TRUCK LOAD-2	Tank Truck Loading	VOC	3.48	-
		HAPs	3.48	-
LOADOUT CAP	Drum, tote, truck loadout (8)	VOC	-	0.15
		HAPs	-	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
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

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$PM_{2.5}$ - particulate matter equal to or less than 2.5 microns in diameter
CO - carbon monoxide
HAPs - hazardous air pollutants

(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.
(6) Allowable rates may not be exceeded during startup or shutdown.
(7) Includes 9.87 pounds per hour and 0.08 ton per year of VOC from hand painting activates, and use of aerosols, lubricants, and adhesives.
(8) EPN LOADOUT CAP is an annual emissions cap for loading activities (EPNs LOAD-1, LOAD-2, LOAD-3, TRUCK LOAD-1, TRUCK LOAD-2).

Date: TBD