Emission Sources - Maximum Allowable Emission Rates

Permit Number 150950

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)
RTO	Regen Thermal Oxidizer (routine) (6)	NO_x	3.74	2.27
		CO	2.75	12.09
		SO_2	<0.01	0.01
		VOC	1.22	0.97
		NH_3	0.21	0.93
		PM	2.47	8.83
		PM_{10}	0.34	1.06
		$PM_{2.5}$	0.34	1.04
RTO - MSS	Regen Thermal Oxidizer (startup) (6)	NO_x	2.00	-
		CO	21.98	-
		SO_2	0.01	-
		VOC	0.55	-
		NH_3	1.69	-
		PM	0.29	-
		PM_{10}	0.29	-
		$PM_{2.5}$	0.29	-
MTFLARE	Maintenance Flare	NO_x	1,198.87	6.30
		CO	40.15	1.97
		SO_2	0.03	<0.01
		VOC	68.62	0.39
F2223	Dust Extraction Fan	PM	0.01	0.03
		PM_{10}	0.01	0.03
		$PM_{2.5}$	0.01	0.03
F5008	D5000 VLP Silo	VOC	0.04	0.06
		PM	0.03	0.05

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		PM_{10}	<0.01	<0.01
		$PM_{2.5}$	<0.01	<0.01
F5018	D5010 VLP Silo	VOC	0.04	0.05
		PM	0.03	0.04
		PM_{10}	<0.01	<0.01
		$PM_{2.5}$	<0.01	<0.01
F5028	D5020 VLP Silo	VOC	0.04	0.05
		PM	0.03	0.04
		PM_{10}	<0.01	<0.01
		$PM_{2.5}$	<0.01	<0.01
F5048	D5020 VLP Silo	VOC	0.04	0.05
		PM	0.03	0.04
		PM_{10}	<0.01	<0.01
		$PM_{2.5}$	<0.01	<0.01
F5058	D5040 VLR Silo	VOC	0.04	0.05
		PM	0.03	0.04
		PM_{10}	<0.01	<0.01
		$PM_{2.5}$	<0.01	<0.01
F5068	D5060 VLR Silo	VOC	0.04	0.05
		PM	0.03	0.04
		PM_{10}	<0.01	<0.01
		$PM_{2.5}$	<0.01	<0.01
F5102	D5101 Dust Collector	VOC	0.05	0.17
		PM	0.04	0.14
		PM_{10}	<0.01	0.01
		$PM_{2.5}$	<0.01	0.01
F5112	D5111 Dust Collector	VOC	0.05	0.17
		PM	0.04	0.14
		PM_{10}	<0.01	0.01

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		$PM_{2.5}$	<0.01	0.01
F5122	D5121 Dust Collector	VOC	0.05	0.17
		PM	0.04	0.14
		PM_{10}	<0.01	0.01
		$PM_{2.5}$	<0.01	0.01
F5132	D5131 Dust Collector	VOC	0.05	0.17
		PM	0.04	0.14
		PM_{10}	<0.01	0.01
		$PM_{2.5}$	<0.01	0.01
F5142	D5141 Dust Collector	VOC	0.05	0.17
		PM	0.04	0.14
		PM_{10}	<0.01	0.01
		$PM_{2.5}$	<0.01	0.01
F5152	D5151 Dust Collector	VOC	0.05	0.17
		PM	0.04	0.14
		PM_{10}	<0.01	0.01
		$PM_{2.5}$	<0.01	0.01
F5251	Dust Collector Exhaust Fan	VOC	0.02	0.02
		PM	0.02	0.02
		PM_{10}	<0.01	<0.01
		$PM_{2.5}$	<0.01	<0.01
F5414	D5410 Transition SAN Silo VLP	VOC	0.04	0.12
		PM	0.03	0.10
		PM_{10}	<0.01	0.01
		$PM_{2.5}$	<0.01	0.01
F5415	D5400 Dust Collector	VOC	0.04	0.19
		PM	0.05	0.21
		PM_{10}	<0.01	0.02
		$PM_{2.5}$	<0.01	0.02

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F5420	Unloading Vacuum Blower	VOC	0.08	0.34
		PM	0.09	0.40
		PM_{10}	0.01	0.03
		$PM_{2.5}$	0.01	0.03
F5582	V5581 Feed Hopper Rework ASA	VOC	0.02	0.05
		PM	0.02	0.03
		PM_{10}	<0.01	<0.01
		$PM_{2.5}$	<0.01	<0.01
F5882	V5881 Feed Hopper Rework ASA	VOC	0.02	0.05
		PM	0.01	0.01
		PM_{10}	0.01	0.01
		$PM_{2.5}$	0.01	0.01
F6182	V6181 Feed Hopper Rework ASA	VOC	0.02	0.05
		PM	0.01	0.01
		PM_{10}	0.01	0.01
		$PM_{2.5}$	0.01	0.01
F6703	F6703 Exhaust Fan	VOC	0.09	0.08
		PM	0.03	0.02
		PM_{10}	0.01	0.01
		$PM_{2.5}$	0.01	0.01
F6711	F6711 Exhaust Fan	VOC	0.09	0.37
		PM	0.07	0.30
		PM_{10}	0.01	0.03
		$PM_{2.5}$	0.01	0.02
F7324	Vacuum Cleaning Blower	VOC	0.10	0.35
		PM	0.03	0.10
		PM_{10}	0.01	0.03
		$PM_{2.5}$	0.01	0.03
F7580	D7500 Line 1 Blender 1	VOC	0.08	0.16

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		PM	0.06	0.11
		PM_{10}	<0.01	<0.01
		$PM_{2.5}$	<0.01	<0.01
F7581	D7510 Line 1 Blender 2	VOC	0.08	0.16
		PM	0.06	0.11
		PM_{10}	0.01	0.01
		$PM_{2.5}$	<0.01	<0.01
F7582	D7520 Line 1 Blender 3	VOC	0.08	0.16
		PM	0.06	0.11
		PM_{10}	0.01	0.01
		$PM_{2.5}$	<0.01	<0.01
F7583	D7530 Line 2 Blender 1	VOC	0.08	0.16
		PM	0.02	0.05
		PM_{10}	0.02	0.05
		$PM_{2.5}$	0.02	0.03
F7584	D7540 Line 2 Blender 2	VOC	0.08	0.16
		PM	0.02	0.05
		PM_{10}	0.02	0.05
		$PM_{2.5}$	0.02	0.03
F7585	D7550 Line 2 Blender 3	VOC	0.08	0.16
		PM	0.02	0.05
		PM_{10}	0.02	0.05
		$PM_{2.5}$	0.02	0.03
F7640	D7600 Line 3 Blender 1	VOC	0.08	0.16
		PM	0.02	0.05
		PM_{10}	0.02	0.05
		$PM_{2.5}$	0.02	0.03
F7641	D7610 Line 3 Blender 2	VOC	0.08	0.16
		PM	0.02	0.05

Emission Sources - Maximum Allowable Emission Rates

		PM_{10}	0.02	0.05
		$PM_{2.5}$	0.02	0.03
F7642	D7620 Line 3 Blender 3	VOC	0.08	0.16
		PM	0.02	0.05
		PM_{10}	0.02	0.05
		$PM_{2.5}$	0.02	0.03
F7703	F7703	VOC	0.08	0.14
		PM	0.06	0.10
		PM_{10}	<0.01	<0.01
		$PM_{2.5}$	<0.01	<0.01
F7723	F7723	VOC	0.08	0.14
		PM	0.02	0.04
		PM_{10}	0.02	0.04
		$PM_{2.5}$	0.02	0.03
F7764	F7764 Rail Compartment Filter	VOC	<0.01	0.01
		PM	<0.01	<0.01
		PM_{10}	<0.01	<0.01
		$PM_{2.5}$	<0.01	<0.01
F7826	V7820 ASA Box/Supersack Pckg. 1 Feed Hopper	VOC	<0.01	0.01
		PM	<0.01	0.01
		PM_{10}	<0.01	<0.01
		$PM_{2.5}$	<0.01	<0.01
F7836	V7830 ASA Box/Supersack Pckg. 2 Feed Hopper	VOC	<0.01	0.01
		PM	<0.01	<0.01
		PM_{10}	<0.01	<0.01
		$PM_{2.5}$	<0.01	<0.01
F7876	V7870 ASA Box/Supersack Pckg. 3 Feed Hopper	VOC	<0.01	0.01
		PM	<0.01	<0.01
		PM_{10}	<0.01	<0.01

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		$PM_{2.5}$	<0.01	<0.01
F7811	V7810 SAN Box/Supersack Feed Hopper	VOC	0.04	0.09
		PM	0.03	0.07
		PM_{10}	<0.01	<0.01
		$PM_{2.5}$	<0.01	<0.01
F7823	Line 1 Elutriator	VOC	0.08	0.10
		PM	0.06	0.08
		PM_{10}	<0.01	<0.01
		$PM_{2.5}$	<0.01	<0.01
F7833	Line 2 Elutriator	VOC	0.08	0.10
		PM	0.02	0.03
		PM_{10}	0.02	0.03
		$PM_{2.5}$	0.02	0.02
F7873	Line 3 Elutriator	VOC	0.08	0.10
		PM	0.02	0.03
		PM_{10}	0.02	0.03
		$PM_{2.5}$	0.02	0.02
F7840	SAN Packaging Filter	VOC	0.03	0.01
		PM	0.02	0.01
		PM_{10}	<0.01	<0.01
		$PM_{2.5}$	<0.01	<0.01
F7850	ASA Packaging Filter 1	VOC	0.03	0.01
		PM	0.02	0.01
		PM_{10}	<0.01	<0.01
		$PM_{2.5}$	<0.01	<0.01
F7860	ASA Packaging Filter 2	VOC	0.03	0.01
		PM	0.02	0.01
		PM_{10}	<0.01	<0.01
		$PM_{2.5}$	<0.01	<0.01

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F7880	ASA Packaging Filter 3	VOC	0.03	0.01
		PM	0.02	0.01
		PM_{10}	<0.01	<0.01
		$PM_{2.5}$	<0.01	<0.01
F7901	F7901 Deheeling Filter	PM	0.04	0.15
		PM_{10}	<0.01	0.01
		$PM_{2.5}$	<0.01	0.01
FltrTotal	Filter CAP	PM	-	3.49
		PM_{10}	-	0.72
		$PM_{2.5}$	-	0.60
		VOC	-	5.14
B1600	P10P Storage Tank	VOC	<0.01	<0.01
DieselTk	Diesel Tank	VOC	0.10	<0.01
WWT	Sump 9724	VOC	0.60	0.48
	Sump 7311	VOC	<0.01	<0.01
	Sump 9726	VOC	0.01	<0.01
	Sump 9722	VOC	0.30	0.01
	Sump 9740	VOC	<0.01	<0.01
HOH	Hot Oil Heater	NO_x	0.15	0.66
		CO	0.30	1.34
		SO_2	< 0.01	0.02
		VOC	0.04	0.19
		PM	0.03	0.14
		PM_{10}	0.03	0.14
		$PM_{2.5}$	0.03	0.14
CT	Cooling Tower	VOC	0.55	1.21
		PM	0.30	1.30
		PM_{10}	0.11	0.46
		$PM_{2.5}$	< 0.01	< 0.01

Emission Sources - Maximum Allowable Emission Rates

EmergeGen	Emergency Generator	NOx	7.05	0.18
		CO	3.86	0.10
		VOC	1.66	0.04
		SO_2	0.01	<0.01
		PM	0.22	0.01
		PM_{10}	0.22	0.01
		$PM_{2.5}$	0.22	0.01
FUG	Fugitive Components (5)	VOC	0.24	1.06
FUG-NH_3	Ammonia Fugitive Components (5)	NH_3	0.05	0.22
FUG NG	Natural Gas Fugitive Components (5)	VOC	0.01	0.03
FUG 10VOC	Fugitive Components <10% VOC (5)	VOC	0.09	0.40
MSS	MSS Area Sources	VOC	2.04	0.10
		NOx	0.03	<0.01
		CO	0.07	<0.01
		PM	0.10	0.01
		PM_{10}	0.10	0.01
		$PM_{2.5}$	0.10	0.01
		NH_3	<0.01	<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
HAP - hazardous air pollutant as listed in § 112(b) of the Federal Clean Air Act or Title 40 Code of Federal Regulations Part 63, Subpart C
(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) Combined annual RTO startup and routine emissions shall comply with the annual rate listed for EPN RTO (routine).

Emission Sources - Maximum Allowable Emission Rates

Date: September 16, 2019