Emission Sources - Maximum Allowable Emission Rates

Permit Number 75818

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 (5)	
			lbs/hour	TPY (4)
A1	Grain Receiving Truck Unloading Baghouse	PM	1.54	1.23
		PM_{10}	1.54	1.23
		$PM_{2.5}$	1.54	1.23
B2	Grain Receiving Railcar Unloading Baghouse	PM	0.02	0.08
		PM_{10}	0.02	0.08
		$PM_{2.5}$	0.02	0.08
C3	Grain Receiving Fugitives – Truck, Rail, and Headhouse	PM	3.62	1.94
		PM_{10}	1.49	0.80
		$PM_{2.5}$	0.25	0.14
D4a	Grain Milling Baghouse A	PM	0.25	1.08
		PM_{10}	0.25	1.08
		$PM_{2.5}$	0.25	1.08
D4b	Grain Milling Baghouse B	PM	0.25	1.08
		PM_{10}	0.25	1.08
		$PM_{2.5}$	0.25	1.08
D4c	Grain Milling Baghouse C	PM	0.25	1.08
		PM_{10}	0.25	1.08
		$PM_{2.5}$	0.25	1.08
D4d	Grain Milling Baghouse D	PM	0.25	1.08
		PM_{10}	0.25	1.08
		$PM_{2.5}$	0.25	1.08
H8	Cooling Tower	PM	0.18	0.77
		PM_{10}	0.10	0.43
		$PM_{2.5}$	<0.01	<0.01

Emission Sources - Maximum Allowable Emission Rates

E5	Scrubber-RTO	NO_x (POC)	0.80	3.50
		CO (POC)	0.67	2.94
		SO_2 (POC)	<0.01	0.02
		PM (POC)	0.06	0.27
		PM_{10} (POC)	0.06	0.27
		$PM_{2.5}$ (POC)	0.06	0.27
		PM (Process)	<0.01	0.01
		PM_{10} (Process)	<0.01	0.01
		$PM_{2.5}$ (Process)	<0.01	0.01
		VOC (Process)	7.81	31.20
SCRUB	Scrubber/RTO MSS	VOC	12.17	0.49
		PM	0.27	0.02
		PM_{10}	0.27	0.02
		$PM_{2.5}$	0.27	0.02
G7	2 – 150.6 MMBtu/hr Package Boilers with a Common Stack	VOC	1.62	7.11
		NO_x	4.22	18.47
		CO	10.54	46.17
		SO_2	0.18	0.78
		PM	2.24	9.83
		PM_{10}	2.24	9.83
		$PM_{2.5}$	2.24	9.83
K10	Loadout Flare (Truck and Railcar Loading)	VOC (Process)	2.22	2.88
		VOC (Pilot)	<0.01	<0.01
		NO_x	3.09	3.09
		CO	26.41	26.41
		SO_2	<0.01	<0.01
TKM	Main TK Condenser	PM	0.19	0.81
		PM_{10}	0.05	0.20

Emission Sources - Maximum Allowable Emission Rates

		$PM_{2.5}$	<0.01	<0.01
TKR	Regeneration TK Condenser	PM	0.08	0.34
		PM_{10}	<0.01	0.01
		$PM_{2.5}$	<0.01	<0.01
L11	Fire Water Pump	VOC	0.18	0.03
		NO_x	3.41	0.51
		CO	0.70	0.10
		SO_2	<0.01	<0.01
		PM	0.09	0.01
		PM_{10}	0.09	0.01
		$PM_{2.5}$	0.09	0.01
EG	Emergency Generator	VOC	0.20	0.01
		NO_x	3.11	0.22
		CO	2.69	0.19
		SO_2	0.96	0.07
		PM	0.16	0.01
		PM_{10}	0.16	0.01
		$PM_{2.5}$	0.16	0.01
P	WDGS Handling and Storage Fugitives	VOC	0.98	4.29
		PM	0.01	0.02
		PM_{10}	<0.01	<0.01
		$PM_{2.5}$	<0.01	<0.01
T1	4,700,000 Gallon Ethanol Tank	VOC	0.18	0.80
T3	220,000 Gallon Gasoline Tank	VOC	0.41	1.79
T4	300,000 Gallon Ethanol Talk	VOC	0.10	0.45
T5	300,000 Gallon Ethanol Tank	VOC	0.10	0.43
T6	2,880 Gallon Rust Inhibitor Tank	VOC	<0.01	<0.01
FUG1	Equipment Leaks	VOC	1.76	7.70
FUG2	Ethanol Truck Loading	VOC	0.87	3.80

Emission Sources - Maximum Allowable Emission Rates

FUG3	Ethanol Railcar Loading			
All Emission Points at the Site	All Sources at the Site	Individual HAP	---	<10.00
		Total HAPs	---	<25.00

(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
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) Allowable emissions for all sources include emissions from planned maintenance, startup and shutdown.

Date: February 14, 2020