Emission Sources - Maximum Allowable Emission Rates

Permit Numbers 77679, PSDTX1061, and HAP55

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 Source Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
		Traine (e)	lb/hr	TPY (5)
BFB-1	Bubbling Fluidized Bed Boiler (6,7) 1374 MMBtu/hr	NO _x	137.0	602.0
		NO _x (MSS)	250.0	-
		СО	227.0	903.0
		CO (MSS)	454.0	-
		VOC	20.0	78.0
		VOC (MSS)	40.0	-
		РМ	50.05	193.0
		PM ₁₀	46.12	193.0
		PM _{2.5}	44.43	193.0
		SO ₂	474.0	277.0
		H ₂ SO ₄	3.6	6.02
		H ₂ SO ₄ (MSS)	4.3	-
		NH ₃	18.0	55.0
		NH ₃ (MSS)	19.0	-
		HCI	97.5	120.4
		Pb	0.1	0.3
		Hg	0.004	0.018

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Emission Sources - Maximum Allowable Emission Rates

PROPHTR	Propane Heater 5 MMBtu/hr	NO _x	0.53	0.23
		СО	0.19	0.08
		VOC	0.01	<0.01
		PM	0.03	0.01
		PM ₁₀	0.03	0.01
		PM _{2.5}	0.03	0.01
		SO ₂	0.04	0.02
PROP-FUG-1	Propane Piping Fugitives (4)	VOC	0.43	1.91
NH ₃ -FUG-1	Aqueous Ammonia Fugitives (4)	NH ₃	0.02	0.08
LVSTG-1	Steam Turbine Lube Oil Vent	voc	<0.01	0.04
CT-1	Cooling Tower	PM	0.78	3.40
		PM ₁₀	0.44	1.94
		PM _{2.5}	0.11	0.50
TK-DSL-1	Firewater Pump Diesel Tank	voc	0.01	<0.01
TK-DSL-2	Emergency Engine Diesel Tank	VOC	0.27	<0.01
TK-DSL-3	General Plant Use Diesel Fuel Tank	voc	0.31	<0.01
T-ACID1	Sulfuric Acid Tank	H ₂ SO ₄	<0.01	<0.01
TRK	Truck Unloader/Receiving	PM	0.32	<0.01
		PM ₁₀	0.15	0.05
		PM _{2.5}	0.02	<0.01
WDPROC-FUG	Wood Processing Building Fugitives (4)	PM	0.31	0.32
		PM ₁₀	0.13	0.14
		PM _{2.5}	0.02	0.02
WDPROC-DC	Wood Processing Building Dust Collector	PM	0.06	0.06
		PM ₁₀	0.03	0.03

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Emission Sources - Maximum Allowable Emission Rates

		PM _{2.5}	<0.01	<0.01
TR-1	Wood Chips to Conveyors 1A & 1B	РМ	0.04	0.05
		PM ₁₀	0.014	0.016
		PM _{2.5}	<0.01	<0.01
TR-2	Conveyors 1A & 1B to Conveyor 2 Transfer	РМ	0.04	0.05
	Transici	PM ₁₀	0.014	0.016
		PM _{2.5}	<0.01	<0.01
TR-3	Conveyors 3 to Conveyor 5 Transfer	PM	0.021	0.02
		PM ₁₀	0.007	0.008
		PM _{2.5}	<0.01	<0.01
TR-4	Conveyor 4 to Conveyor 5 Transfer	PM	0.021	0.02
		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
TR-5	Conveyor 5 to Conveyor 6 & 7 Transfer/Bypass	PM	0.042	0.05
		PM ₁₀	0.014	0.016
		PM _{2.5}	<0.01	<0.01
TR-6	Conveyor 6 to Radical Stacker	PM	0.04	0.05
		PM ₁₀	0.014	0.016
		PM _{2.5}	<0.01	<0.01
TR-7	Autoreclaimer to Conveyor 8	PM	0.014	0.02
		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
TR-8	Underground Pile Reclaim to Conveyor 8	РМ	0.014	0.02
		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01

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Emission Sources - Maximum Allowable Emission Rates

TR-9	Conveyor 8 to Conveyor 9 Transfer	РМ	0.014	0.05
		PM ₁₀	<0.01	0.016
		PM _{2.5}	<0.01	<0.01
TR-10	Conveyor 9 to Conveyor 10 & 11	РМ	0.014	0.05
		PM ₁₀	<0.01	0.016
		PM _{2.5}	<0.01	<0.01
TR-11	Underground Pile Reclaim to Conveyor 14	РМ	0.014	0.05
	14	PM ₁₀	<0.01	0.016
		PM _{2.5}	<0.01	<0.01
C-2	Conveyor from Receiving	РМ	0.149	0.17
		PM ₁₀	0.05	0.06
		PM _{2.5}	<0.01	<0.01
C-5 Wood Processing to Stock Conveyor	Wood Processing to Stockpile Area	РМ	0.16	0.18
	Conveyor	PM ₁₀	0.05	0.06
		PM _{2.5}	<0.01	<0.01
C-6	Conveyor to Autopile	РМ	0.10	0.12
		PM ₁₀	0.033	0.039
		PM _{2.5}	<0.01	<0.01
C-8	Conveyor from Autopile	РМ	0.034	0.12
		PM ₁₀	0.01	0.04
		PM _{2.5}	<0.01	<0.01
C-10/11	Conveyors to Feed Silos	РМ	0.063	0.22
		PM ₁₀	0.02	0.07
		PM _{2.5}	<0.01	0.01

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Emission Sources - Maximum Allowable Emission Rates

FSILO 1	Boiler Feed Silo 1	PM	0.51	0.23
		PM ₁₀	0.51	0.23
		PM _{2.5}	0.08	0.03
FSILO 2	Boiler Feed Silo 2	PM	0.343	0.15
		PM ₁₀	0.343	0.15
		PM _{2.5}	0.05	0.02
LIME-DC	Hydrated Lime Silo Dust Collector	PM	0.086	0.038
		PM ₁₀	0.086	0.038
		PM _{2.5}	0.01	<0.01
FA-DC2	Fly Ash Silo Loadout Dust Collector	PM	0.04	0.019
		PM ₁₀	0.04	0.019
		PM _{2.5}	<0.01	<0.01
FA-FUG	Fly Ash Silo Truck Loading Fugitives (4)	PM	0.31	0.04
		PM ₁₀	0.08	0.011
		PM _{2.5}	0.01	<0.01
BA-FUG	Bottom Ash Truck Loading Fugitives (4)	PM	<0.01	<0.01
		PM ₁₀	<0.01	0.01
		PM _{2.5}	0.01	<0.01
AUTOPILE	Wood Storage Auto Pile	РМ	0.38	0.50
		PM ₁₀	0.18	0.2.4
		PM _{2.5}	0.03	0.04
MANPILE	Wood Storage Manual Pile	РМ	0.65	0.86
		PM ₁₀	0.31	0.41
		PM _{2.5}	0.05	0.06

⁽¹⁾ Emission point identification - either specific equipment designation or emission point number from plot plan.

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Emission Sources - Maximum Allowable Emission Rates

(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

SO₂ - sulfur dioxide

PM - total particulate matter, suspended in the atmosphere, including PM_{10} and $PM_{2.5}$, as

represented

PM₁₀ - 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

MSS - maintenance, startup, and shutdown

(4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.

(5) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.

(6) Planned maintenance, startup and shutdown (MSS) pound per hour (lb/hr) emissions for all pollutants are authorized even if not specifically identified as MSS. During any clock hour that includes one or more minutes of planned MSS that pollutant's maximum hourly emission rate shall apply during that clock hour.

(7) The lb/hr and ton per year include emissions from maintenance, startup and shutdown.

Date:	December 9, 2013	
Dale.	December 9, 2013	