

Emission Sources - Maximum Allowable Emission Rates

Permit Number 77679

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 (5)
Bubbling Bed Boiler-Normal Operations				
BFB-1	Bubbling Fluidized Bed Boiler 1374 MMBtu/hr	NO _x	137.0	602.0
		CO	227.0	903.0
		SO ₂	474.0	277.0
		VOC	20.0	78.0
		PM/PM ₁₀ /PM _{2.5}	44.0	193.0
		H ₂ SO ₄	3.6	6.02
		NH ₃	18.0	55.0
		HCl	97.5	120.4
		Pb	0.1	0.3
		Hg	0.004	0.018
Bubbling Bed Boiler-Start-up/Shutdown				
BFB-1	Bubbling Fluidized Bed Boiler 1374 MMBtu/hr	NO _x	250.0	-
		CO	227.0	-
		SO ₂	283.0	-
		VOC	20.0	-
		PM/PM ₁₀ /PM _{2.5}	43.0	-
		H ₂ SO ₄	4.3	-
		NH ₃	19.0	-
		HCL	97.0	-

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		Pb	0.1	-
		Hg	0.004	-
PROPHTR	Propane Heater 5MMBtu/hr	NO _x	0.53	0.23
		CO	0.19	0.08
		SO ₂	0.04	0.02
		VOC	0.01	0.005
		PM/PM ₁₀ /PM _{2.5}	0.03	0.01
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	PM	0.06	0.06

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		PM ₁₀	0.03	0.03
		PM _{2.5}	<0.01	<0.01
TR-1	Wood Chips to Conveyors 1A & 1B	PM	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	PM	0.04	0.05
		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	PM	0.014	0.02
		PM ₁₀	<0.01	<0.01

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

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FSILO 1	Boiler Feed Silo 1	PM/PM ₁₀	0.51	0.23
		PM _{2.5}	0.08	0.03
FSILO 2	Boiler Feed Silo 2	PM/PM ₁₀	0.343	0.15
		PM _{2.5}	0.05	0.02
LIME-DC	Hydrated Lime Silo Dust Collector	PM/PM ₁₀	0.086	0.038
		PM _{2.5}	0.01	<0.01
FA-DC2	Fly Ash Silo Loadout Dust Collector	PM/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	PM	0.38	0.50
		PM ₁₀	0.18	0.2.4
		PM _{2.5}	0.03	0.04
MANPILE	Wood Storage Manual Pile	PM	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.
- (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 PM₁₀ 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

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PM _{2.5}	-	particulate matter equal to or less than 2.5 microns in diameter
CO	-	carbon monoxide
H ₂ SO ₄	-	sulfuric acid mist
HCl	-	hydrogen chloride
NH ₃	-	ammonia
Pb	-	lead
Hg	-	mercury

(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.

Date: June 29, 2012