

Emission Sources - Maximum Allowable Emission Rates

Permit Number 80892

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 (6)	
			lbs/hour	TPY (4)
WBLR	Wood-Fired CHP Boiler (211 MMBtu/hr - approximately 3.8 MW)	NO _x	25.32	85.00
		CO	84.40	125.00
		SO ₂	585.00	189.00
		VOC	4.22	14.50
		PM	10.55	36.00
		PM (SS)	16.55	-
		PM ₁₀	10.55	36.00
		PM ₁₀ (SS)	16.6	-
		PM _{2.5}	10.55	36.00
		PM _{2.5} (SS)	16.6	-
		H ₂ SO ₄	26.80	5.80
		NH ₃	1.54	4.00
		HCl	12.13	9.02
		Pb	0.02	0.04
NG-FUG	Natural Gas Fugitives (5)	VOC	<0.01	0.02
LVST	Steam Turbine 1 Lube Oil Vent	VOC	<0.01	0.02
T-ACID	Acid Storage Tank	H ₂ SO ₄	0.01	0.01
T-NAOH	Caustic Storage Tank	NaOH	0.01	0.01
T-NH ₃	Ammonia Handling Piping Components	NH ₃	0.03	0.13

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TRK-FUG and TRK-BAG	Truck Receiving Hopper Transfer Baghouse Stack	PM	0.01	0.01
		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
TR-1	Wood From Receiving to Conveyor 1 (C-1)	PM	0.01	0.01
		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
TR-2	Transfer of Wood Chips from C-1 to C-2	PM	0.01	0.01
		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
SCN-1	Wood Screen (5)	PM	0.06	0.07
		PM ₁₀	0.02	0.02
		PM _{2.5}	0.01	0.01
HOG-1	Hogger/Slicer (5)	PM	0.03	0.03
		PM ₁₀	0.01	0.01
		PM _{2.5}	0.01	0.01
TR-3	Wood from Hogger and Screen to Conveyor C-3)	PM	0.01	0.01
		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
TR-4	Wood from Conveyor C-3 to C-4	PM	0.01	0.01
		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
TR-5	Wood from Conveyor C-4 and C-9 to Conveyor C-5	PM	<0.01	0.01
		PM ₁₀	<0.01	<0.01
		PM _{2.5}	0.01	<0.01
STORE-1	Wood Storage Pile (5)	PM	0.03	0.14

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		PM ₁₀	0.02	0.07
		PM _{2.5}	0.01	0.03
TR-6	Wood from Storage to Fuel Reclaim Conveyor C-6	PM	<0.01	<0.01
		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
TR-7	Wood from Storage to Boiler Feed Conveyor C-7	PM	<0.01	0.01
		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
TR-8	Wood to Fuel Distribution Conveyor C-7 to C-8	PM	<0.01	<0.01
		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
TR-9	Wood to Fuel Overfeed Conveyor C-9 to C-8	PM	<0.01	<0.01
		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
MSS-FUG	General MSS Emissions (7)	NO _x	<0.01	<0.01
		CO	<0.01	<0.01
		PM	0.26	<0.01
		PM ₁₀	0.26	<0.01
		PM _{2.5}	0.26	<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) NO_x - total oxides of nitrogen
SO₂ - sulfur dioxide
CO - carbon monoxide
VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
PM - particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5}.
PM₁₀ - particulate matter equal to or less than 10 microns in diameter
PM_{2.5} - particulate matter equal to or less than 2.5 microns in diameter
H₂SO₄ - sulfuric acid mist
NaOH - sodium hydroxide

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NH₃ - ammonia
HCl - hydrogen chloride
Pb - lead

- (4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period. Annual emission rates for EPN WBLR include planned startup and shutdown emissions.
- (5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.
- (6) Planned startup and shutdown (SS) lbs/hr emissions for all pollutants are authorized even if not specifically identified as SS. During any clock hour that includes one or more minutes of planned SS activities, that pollutant's maximum hourly emission rate shall apply during that clock hour. This limit only applies for up to two clock hours after startup for EPN WBLR.
- (7) Inherently low emitting (ILE) activities

Date: July 20, 2017