Emission Sources - Maximum Allowable Emission Rates

Permit Numbers 152131 and PSDTX538

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)
1	Debarker (5)	PM	0.06	0.13
		PM_{10}	0.03	0.07
		$PM_{2.5}$	0.02	0.03
2	Bark Hog (5)	PM	<0.01	0.02
		PM_{10}	<0.01	<0.01
		$PM_{2.5}$	<0.01	<0.01
3	Sawing Operations (5)	PM	1.00	2.11
		PM_{10}	0.50	1.06
		$PM_{2.5}$	0.25	0.53
4	Chipper (5)	PM	<0.01	0.01
		PM_{10}	<0.01	<0.01
		$PM_{2.5}$	<0.01	<0.01
5	Continuous Dry Kiln A Burner (40 MMBtu/hr)	PM	2.20	9.63
		PM_{10}	2.20	9.63
		$PM_{2.5}$	1.83	8.02
		NO_x	1.50	6.58
		CO	13.98	61.24
		SO_2	1.00	4.38
		VOC	0.68	2.98
		HAP	1.55	6.77
5	Continuous Dry Kiln A Drying Emissions	VOC	104.76	378.30
		HAP	4.53	16.37
5MSS	Green Fuel Burner A Startup	PM	3.41	0.08
		PM_{10}	3.02	0.07

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		$PM_{2.5}$	2.63	0.06
		NO_x	2.34	0.06
		CO	5.80	0.14
		SO_2	0.24	<0.01
		VOC	0.16	<0.01
		HAP	0.37	<0.01
6	Continuous Dry Kiln B Burner (40 MMBtu/hr)	PM	2.20	9.63
		PM_{10}	2.20	9.63
		$PM_{2.5}$	1.83	8.02
		NO_x	1.50	6.58
		CO	13.98	61.24
		SO_2	1.00	4.38
		VOC	0.68	2.98
		HAP	1.55	6.77
6	Continuous Dry Kiln B Drying Emissions	VOC	104.76	378.30
		HAP	4.53	16.37
6MSS	Green Fuel Burner B Startup	PM	3.41	0.08
		PM_{10}	3.02	0.07
		$PM_{2.5}$	2.63	0.06
		NO_x	2.34	0.06
		CO	5.80	0.14
		SO_2	0.24	<0.01
		VOC	0.16	<0.01
		HAP	0.37	<0.01
9	Dry Fuel HP Transfer Cyclone Stack	PM	0.03	0.09
		PM_{10}	0.01	0.03
		$PM_{2.5}$	<0.01	<0.01
10	Kiln A Fuel Silo HP Transfer Cyclone Stack	PM	0.15	0.68
		PM_{10}	0.05	0.24

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		$PM_{2.5}$	0.02	0.07
11	Kiln B Fuel Silo HP Transfer Cyclone Stack	PM	0.15	0.68
		PM_{10}	0.05	0.24
		$PM_{2.5}$	0.02	0.07
12	Bark Bin Transfer (5)	PM	<0.01	<0.01
		PM_{10}	<0.01	<0.01
		$PM_{2.5}$	<0.01	<0.01
13	Chip Bin Transfer (5)	PM	<0.01	0.02
		PM_{10}	<0.01	0.01
		$PM_{2.5}$	<0.01	<0.01
15	Chip Screens A and B (5)	PM	<0.01	<0.01
		PM_{10}	<0.01	<0.01
		$PM_{2.5}$	<0.01	<0.01
16	Green Fuel Metering Bin (5)	PM	<0.01	<0.01
		PM_{10}	<0.01	<0.01
		$PM_{2.5}$	<0.01	<0.01
17	Bark Truck Bin (5)	PM	0.05	0.09
		PM_{10}	0.02	0.04
		$PM_{2.5}$	<0.01	<0.01
18	Chips Truck Bin (5)	PM	0.09	0.24
		PM_{10}	0.04	0.11
		$PM_{2.5}$	<0.01	0.02
19	Shavings Truck Bin (5)	PM	0.02	0.04
		PM_{10}	<0.01	0.02
		$PM_{2.5}$	<0.01	<0.01
20	Batch Kiln Burner (40 MMBtu/hr)	PM	0.30	1.31
		PM_{10}	0.30	1.31
		$PM_{2.5}$	0.30	1.31
		NO_x	3.92	17.18

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		CO	3.29	14.43
		SO_2	0.02	0.10
		VOC	0.22	0.94
		HAP	0.07	0.32
20	Batch Kiln Drying Emissions	PM	0.26	0.80
		PM_{10}	0.26	0.80
		$PM_{2.5}$	0.26	0.80
		VOC	39.84	121.18
		HAP	2.56	7.79
21	Planer System Dust Collector Stack	PM	1.50	3.75
		PM_{10}	1.50	3.75
		$PM_{2.5}$	1.50	3.75

(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) 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 emissions are included. Maintenance activities, except as specified in Special Condition Nos. 22 through 28, are not authorized by this permit and will need separate authorization, unless the activity can meet the conditions of 30 TAC § 116.119.

Date: April 11, 2024