Emission Sources - Maximum Allowable Emission Rates

Permit Numbers 1037 and PSDTX924M2

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)
21A	Boiler Fuel House (5)	PM	0.28	0.47
		PM_{10}	0.13	0.22
		$PM_{2.5}$	0.02	0.03
22	Wood-Fired Boiler ESP Stack	VOC (as C)	10.25	37.44
		NO_X	30.75	112.31
		SO_2	1.70	6.20
		PM	10.71	39.08
		PM_{10}	10.71	39.08
		$PM_{2.5}$	7.84	28.62
		CO*	405.02	900.96
		HAPs	2.69	9.82
22 (MSS)	Wood-Fired Boiler ESP Stack - MSS	VOC (as C)	0.44	0.12
		NO_X	7.10	1.95
		SO_2	0.82	0.22
		PM	0.38	0.11
		PM_{10}	0.38	0.11
		$PM_{2.5}$	0.38	0.11
		CO	4.10	1.13
		HAPs	0.09	0.03

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28	Planer Cyclone Stack	PM	1.16	5.10
		PM_{10}	1.11	4.84
		$PM_{2.5}$	1.11	4.84
91	Studmill Dry Kiln No. 1 Vents	VOC (7) (12)	47.14	175.64
		NO_X	5.20	16.52
		SO_2	0.21	0.66
		PM	4.32	16.11
		PM_{10}	4.02	14.98
		$PM_{2.5}$	2.34	8.74
		CO	8.21	26.06
		HAPs (8)	3.43	12.65
91 (MSS)(9)	Studmill Dry Kiln No. 1 - MSS	VOC	0.01	---
		NO_X	0.21	---
		SO_2	0.02	---
		PM	0.01	---
		PM_{10}	0.01	---
		$PM_{2.5}$	0.01	---
		CO	0.12	---
92	Studmill Dry Kiln No. 2 Vents	VOC (7) (12)	44.88	175.64
		NO_X	5.20	16.52
		SO_2	0.21	0.66
		PM	4.12	16.11
		PM_{10}	3.83	14.98

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		$PM_{2.5}$	2.23	8.74
		CO	8.21	26.06
		HAPs (8)	3.28	12.65
92 (MSS) (9)	Studmill Dry Kiln No. 2 - MSS	VOC	0.01	---
		NO_X	0.21	---
		SO_2	0.02	---
		PM	0.01	---
		PM_{10}	0.01	---
		$PM_{2.5}$	0.01	---
		CO	0.12	---
91 and 92 MSS (9)	Studmill Kiln Nos. 1 and 2 MSS	VOC	---	0.01
		NO_X	---	0.08
		SO_2	---	<0.01
		PM	---	<0.01
		PM_{10}	---	<0.01
		$PM_{2.5}$	---	<0.01
		CO	---	0.05
101 (10)	Sawmill Dry Kiln No. 1 Vents	VOC (12)	45.52	178.39
		PM	0.56	2.18
		PM_{10}	0.56	2.18

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		$PM_{2.5}$	0.55	2.17
		Acetaldehyde	0.42	1.64
		MeOH	2.48	9.71
		HAPs	3.22	12.62
102 (10)	Sawmill Dry Kiln No. 2 Vents	VOC (12)	45.52	178.39
		PM	0.56	2.18
		PM_{10}	0.56	2.18
		$PM_{2.5}$	0.55	2.17
		Acetaldehyde	0.42	1.64
		MeOH	2.48	9.71
		HAPs	3.22	12.62
103 (10)	Sawmill Dry Kiln No. 3 Vents	VOC (12)	45.52	178.39
		PM	0.56	2.18
		PM_{10}	0.56	2.18
		$PM_{2.5}$	0.55	2.17
		Acetaldehyde	0.42	1.64
		MeOH	2.48	9.71
		HAPs	3.22	12.62
104 (10)	Sawmill Dry Kiln No. 4 Vents	VOC (12)	45.52	178.39
		PM	0.56	2.18
		PM_{10}	0.56	2.18
		$PM_{2.5}$	0.55	2.17
		Acetaldehyde	0.42	1.64

Emission Sources - Maximum Allowable Emission Rates

		MeOH	2.48	9.71
		HAPs	3.22	12.62
106	Shavings Truck Loading (5)	PM	0.09	0.08
		PM_{10}	0.04	0.04
		$PM_{2.5}$	0.01	0.01
107	Sawmill Chip Truck Loading (5)	PM	0.11	0.22
		PM_{10}	0.05	0.11
		$PM_{2.5}$	0.01	0.02
112	Studmill Chip Loading (5)	PM	0.08	0.19
		PM_{10}	0.04	0.09
		$PM_{2.5}$	0.01	0.01

Emission Sources - Maximum Allowable Emission Rates

		DRAFT		
120	Studmill Debarker (5)	PM	0.72	1.19
		PM_{10}	0.42	0.69
		$PM_{2.5}$	0.14	0.23
121	Sawmill Debarker (5)	PM	0.10	0.19
		PM_{10}	0.06	0.11
		$PM_{2.5}$	0.02	0.04
122	Boiler Fuel House Loading (5)	PM	0.10	0.31
		PM_{10}	0.05	0.15

Emission Sources - Maximum Allowable Emission Rates

		$PM_{2.5}$	0.01	0.02
123	Studmill (5)	PM	0.32	0.53
		PM_{10}	0.11	0.19
		$PM_{2.5}$	0.04	0.06
124	Sawmill (5)	PM	0.64	1.06
		PM_{10}	0.23	0.38
		$PM_{2.5}$	0.07	0.12
130 (10)	Sawmill Dry Kiln No. 5 Vents	VOC (12)	45.52	178.39
		PM	0.56	2.18
		PM_{10}	0.56	2.18
		$PM_{2.5}$	0.55	2.17
		Acetaldehyde	0.42	1.64
		MeOH	2.48	9.71
		HAPs	3.22	12.62
144	Propane Vaporizers (5)	VOC (as C)	0.01	0.04
		NO_X	0.14	0.62
		SO_2	0.02	0.07
		PM	0.01	0.03
		PM_{10}	0.01	0.03
		$PM_{2.5}$	0.01	0.03

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		CO	0.08	0.36
147	Ash Handling (5)	PM	0.10	0.37
		PM_{10}	0.05	0.17
		$PM_{2.5}$	0.01	0.03
148	Studmill Material Handling (5)	PM	0.89	1.66
		PM_{10}	0.42	0.78
		$PM_{2.5}$	0.06	0.12
149	Sawmill Material Handling (5)	PM	1.06	1.69
		PM_{10}	0.50	0.80
		$PM_{2.5}$	0.08	0.12

(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
MeOH - methanol
HAP - hazardous air pollutant as listed in § 112(b) of the Federal Clean Air Act or Title 40 Code of Federal Regulations (40 CFR) 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, as well as planned maintenance activities identified as part of permit alteration issued on March 28, 2013.
(7) VOC emissions include total HAPs.
(8) HAPs include Acetaldehyde (0.69 tpy), Acrolein (0.25 tpy), Formaldehyde (2.32 tpy), Methanol (7.77 tpy), and Propionaldehyde (0.13 tpy) from each Studmill Dry Kiln.
(9) For determination of compliance, annual emissions EPNs 91 MSS and 92 MSS should be summed.
(10) For determination of compliance, emissions from the five steam-heated Kilns (EPNs 101, 102, 103, 104, and 130) should be summed.
(11) CO compliance to be demonstrated on a 24-hour average basis.
(12) VOC presented on a Wood Products Protocol No. 1 (WPP1) basis.

Emission Sources - Maximum Allowable Emission Rates

Date: Draft