Emission Sources - Maximum Allowable Emission Rates

Permit Numbers 5628 and PSDTX905

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 (7)	TPY (4)
S-03	Boiler No. 3 Scrubber Stack	VOC (8)	32.00	100.01
		NO_X	44.00	130.85
		SO_2	1.85	8.11
		PM	44.00	192.72
		PM_{10}	44.00	192.72
		$PM_{2.5}$	18.22	79.81
		CO	610.24	2672.84
		Formaldehyde	0.10	0.44
		Methanol	0.29	1.28
		n-Hexane	0.08	2.05
		HAPs	1.03	6.21
RTO/RCO	Regenerative Thermal/Catalytic Oxidizer Stack	VOC (9)	18.85	64.40
		NO_X	2.21	6.57
		SO_2	0.01	0.03
		PM	3.76	12.79
		PM_{10}	3.76	12.79
		$PM_{2.5}$	3.76	12.79
		CO	7.23	24.14
		Methanol	0.37	1.25
		Phenol	0.53	1.82

Emission Sources - Maximum Allowable Emission Rates

		HAPs	1.22	4.16
S-08 (10)	Veneer Dryers Cooling Zone Stacks (No. 1)	VOC (9)	0.88	3.00
		PM	0.83	2.85
		PM_{10}	0.83	2.85
		$PM_{2.5}$	0.83	2.85
		CO	0.66	2.26
		HAPs	0.43	1.48
S-09 (10)	Veneer Dryers Cooling Zone Stacks (No. 2)	VOC (9)	1.10	3.75
		PM	1.04	3.56
		PM_{10}	1.04	3.56
		$PM_{2.5}$	1.04	3.56
		CO	0.83	2.83
		HAPs	0.54	1.85
S-10 (10)	Veneer Dryers Cooling Zone Stacks (No. 3)	VOC (9)	1.10	3.75
		PM	1.04	3.56
		PM_{10}	1.04	3.56
		$PM_{2.5}$	1.04	3.56
		CO	0.83	2.83
		HAPs	0.54	1.85
S-11 (10)	Veneer Dryers Cooling Zone Stacks (No. 4)	VOC (9)	1.32	4.50
		PM	1.25	4.27
		PM_{10}	1.25	4.27
		$PM_{2.5}$	1.25	4.27
		CO	0.99	3.39
		HAPs	0.65	2.23

Emission Sources - Maximum Allowable Emission Rates

S-14	Dry Waste Baghouse Vent	PM	0.89	3.90
		PM_{10}	0.89	3.90
		$PM_{2.5}$	0.89	3.90
S-15	Sander Baghouse Vent	PM	0.79	3.47
		PM_{10}	0.79	3.47
		$PM_{2.5}$	0.20	0.87
S-17	Silo Sander Dust Baghouse Stack	PM	0.03	0.15
		PM_{10}	0.03	0.15
		$PM_{2.5}$	0.03	0.15
S-18A	Shavings House/Truck Bin Cyclone Vent	PM	2.06	9.03
		PM_{10}	2.06	9.03
		$PM_{2.5}$	2.06	9.03
S-19	Fuel House Cyclone Vent	PM	0.30	1.31
		PM_{10}	0.30	1.31
		$PM_{2.5}$	0.30	1.31
S-21	Package Boiler Stack	VOC (8)	0.34	0.15
		NO_X	23.50	10.29
		SO_2	0.36	0.16
		PM	5.54	2.43
		PM_{10}	3.86	1.69
		$PM_{2.5}$	2.60	1.14
		CO	8.39	3.68
		HAPs	0.13	0.06
S-22	Direct Fired Kiln Fuel Silo Cyclone Vent	PM	0.65	2.83
		PM_{10}	0.65	2.83

Emission Sources - Maximum Allowable Emission Rates

		$PM_{2.5}$	0.03	0.14
K-01	Batch Kiln No. 1 Vents	VOC (9)	43.59	76.00
		PM	0.17	0.29
		PM_{10}	0.17	0.29
		$PM_{2.5}$	0.17	0.29
		Formaldehyde	0.27	0.46
		Methanol	2.27	3.96
		HAPs	2.97	5.18
K-03 and ABRTSTK	Continuous Kiln No. 3 and Burner Bypass Stacks	VOC (9)	77.83	340.88
		NO_X	5.71	25.01
		SO_2	1.17	5.15
		PM	2.46	10.78
		PM_{10}	2.38	10.43
		$PM_{2.5}$	1.73	7.56
		CO	13.77	60.33
		Acetaldehyde	0.34	1.50
		Formaldehyde	1.16	5.07
		Methanol	3.88	17.00
		Phenol	0.43	1.89
		HAPs	6.10	26.74
V-01	Plywood Press Vent	VOC (9)	24.46	92.33
		PM	0.93	3.51
		PM_{10}	0.27	1.03
		$PM_{2.5}$	0.22	0.83
		Methanol	3.97	14.98

Emission Sources - Maximum Allowable Emission Rates

		HAPs	4.59	17.31
V-02	Glue Loft Vent	VOC (11)	0.21	0.80
		PM	<0.01	<0.01
		PM_{10}	<0.01	<0.01
		$PM_{2.5}$	<0.01	<0.01
		HAPs	0.19	0.72
F-01	MTL Sawline (5)	PM	0.07	0.30
		PM_{10}	0.02	0.11
		$PM_{2.5}$	0.01	0.03
F-02	Fiber Line (5)	PM	0.62	2.71
		PM_{10}	0.22	0.97
		$PM_{2.5}$	0.07	0.30
F-03	Ring Debarker (5)	PM	2.02	8.85
		PM_{10}	1.11	4.87
		$PM_{2.5}$	0.38	1.68
F-04	Drum Debarker (5)	PM	0.26	1.13
		PM_{10}	0.14	0.62
		$PM_{2.5}$	0.05	0.21
F-05	Crooked Log Saw (5)	PM	0.01	0.03
		PM_{10}	<0.01	<0.01
		$PM_{2.5}$	<0.01	<0.01
F-08	Stud Mill Trim Saws (5)	PM	0.22	0.98
		PM_{10}	0.08	0.35
		$PM_{2.5}$	0.02	0.11
F-09	Traditional Lathe Log Vats (5)	VOC (8)	14.00	61.32

Emission Sources - Maximum Allowable Emission Rates

		Acetaldehyde	0.32	1.40
		Methanol	0.50	2.20
		HAPs	0.82	3.60
F-09A	Centerless Lathe Log Vats (5)	VOC (8)	4.19	18.35
		HAPs	0.33	1.44
F-12	Chip Pad Truck Bin (5)	PM	0.07	0.31
		PM_{10}	0.03	0.15
		$PM_{2.5}$	0.01	0.02
F-14	Stud Mill Truck Bin (5)	PM	0.11	0.50
		PM_{10}	0.05	0.23
		$PM_{2.5}$	0.01	0.04
F-17	Shavings Truck Bin (5)	PM	0.01	0.04
		PM_{10}	<0.01	0.02
		$PM_{2.5}$	<0.01	<0.01
F-18	Sawmill Building (5)	PM	0.01	0.03
		PM_{10}	<0.01	0.02
		$PM_{2.5}$	<0.01	<0.01
F-19	Fuel House Cyclone Stack	PM	0.06	0.28
		PM_{10}	0.03	0.13
		$PM_{2.5}$	<0.01	0.02
F-21	Plywood Sander (5)	VOC (9)	10.48	45.89
		Methanol	0.44	1.92
		HAPs	0.61	2.66
F-23	Material Handling (5)	PM	0.87	3.82
		PM_{10}	0.41	1.81

Emission Sources - Maximum Allowable Emission Rates

		$PM_{2.5}$	0.06	0.27
F-24	Sander Dust Silo Stack	PM	0.03	0.15
		PM_{10}	0.02	0.07
		$PM_{2.5}$	<0.01	0.01
F-25	Plywood Saws (5)	VOC (9)	6.09	22.97
		Methanol	0.45	1.69
		HAPs	0.51	1.93

(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
C_6H_5OH - phenol
CH_3CHO - acetaldehyde
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 include for all sources, as well as planned maintenance activities for EPNs S-03, S-21, K-01, K-03, ABRTSTK, RTO/RCO, S-14, S-15, and S-17 as part of permit alteration approved on July 19, 2013.
(7) Compliance with hourly emissions for all non-fugitive sources to be demonstrated on a 3-hour average basis.
(8) VOC presented on a carbon basis.
(9) VOC presented on a Wood Products Protocol 1 (WPPI)/propane basis.
(10) For determination of compliance, the emission rates should be summed up for the veneer dryer cooling zones (EPNs S-08, S-09, S-10, and S-11).
(11) VOC presented as sum of VOC species.

Emission Sources - Maximum Allowable Emission Rates

Dated: September 8, 2017