Emission Sources - Maximum Allowable Emission Rates

Permit Numbers 5207/PSDTX865

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)
PB-32-FU	Truck Dump (5)	PM	0.33	0.54
		PM_{10}	0.16	0.26
		$PM_{2.5}$	0.02	0.04
PB-33-FU	Raw Material Storage (RMS) Building (5)	PM	0.47	0.72
		PM_{10}	0.22	0.34
		$PM_{2.5}$	0.03	0.05
PB-40	Hammermill Nos. 3 and 5 Feed Material Cyclone and Baghouse Stack (8)	VOC (11)	20.06	50.64
		PM	4.65	11.75
		PM_{10}	4.65	11.75
		$PM_{2.5}$	1.47	3.72
		Methanol	1.35	3.40
		Total HAPs	1.59	4.02
PB-41	Hammermill Nos. 1 and 2 Feed Material Cyclone and Baghouse Stack (8)	VOC (11)	20.06	50.64
		PM	4.65	11.75
		PM_{10}	4.65	11.75
		$PM_{2.5}$	1.47	3.72
		Methanol	1.35	3.40
		Total HAPs	1.59	4.02

Emission Sources - Maximum Allowable Emission Rates

PB-44	Sander Dust Boiler Electrostatic Precipitator Stack	VOC (12)	0.48	2.10
		NO_X	62.88	275.43
		SO_2	0.37	1.61
		PM	2.73	11.94
		PM_{10}	2.20	9.62
		$PM_{2.5}$	2.01	8.81
		CO	75.27	329.66
		Hydrochloric Acid	0.02	0.07
		Total HAPs	0.25	1.08
PB-46	Sander Dust Fuel Bin Vent	VOC (11)	0.04	0.17
		PM	0.75	2.10
		PM_{10}	0.55	1.54
		$PM_{2.5}$	0.39	1.11
		Total HAPs	0.03	0.14
PB-47	Dryer No. 1 Multiclone Stack (9)	VOC (11)	24.77	---
		NO_X (15)	6.30	---
		SO_2 (15)	0.07	---
		PM	9.96	---
		PM_{10} (13)	9.41	---
		$PM_{2.5}$ (13)	3.73	---
		CO (15)	5.90	---
		Acetaldehyde	0.13	---

Emission Sources - Maximum Allowable Emission Rates

		Acrolein	0.13	---
		Benzene	0.01	---
		Formaldehyde	0.34	---
		Hydrochloric Acid	0.66	---
		Manganese	0.02	---
		Methanol	0.37	---
		Phosphorus	0.08	---
		Total HAPs	2.13	---
PB-48	Dryer No. 2 Multiclone Stack (9)	VOC (11)	24.77	---
		NO_X (15)	6.30	---
		SO_2 (15)	0.07	---
		PM	9.96	---
		PM_{10} (13)	9.41	---
		$PM_{2.5}$ (13)	3.73	---
		CO (15)	5.90	---
		Acetaldehyde	0.13	---
		Acrolein	0.13	---
		Benzene	0.01	---
		Formaldehyde	0.34	---
		Hydrochloric Acid	0.66	---
		Manganese	0.02	---
		Methanol	0.37	---

Emission Sources - Maximum Allowable Emission Rates

		Phosphorus	0.08	---
		Total HAPs	2.13	---
PB-49	Dryer No. 3 Valveless Regenerative Thermal Oxidizer (VRTO) Stack	VOC (11)	4.27	10.78
		NO_X	10.60	34.74
		SO_2	0.07	0.30
		PM	10.17	25.67
		PM_{10}	10.17	25.67
		$PM_{2.5}$	10.17	25.67
		CO	5.90	14.88
		Hydrochloric Acid	0.45	1.13
		Total HAPs	0.71	1.93
PB-50	Dryer No. 4 Multiclone Stack (9)	VOC (11)	24.77	---
		NO_X (15)	6.30	---
		SO_2 (15)	0.07	---
		PM	9.96	---
		PM_{10} (13)	9.41	---
		$PM_{2.5}$ (13)	3.73	---
		CO (15)	5.90	---
		Acetaldehyde	0.13	---
		Acrolein	0.13	---
		Benzene	0.01	---
		Formaldehyde	0.34	---

Emission Sources - Maximum Allowable Emission Rates

		Hydrochloric Acid	0.66	---
		Manganese	0.02	---
		Methanol	0.37	---
		Phosphorus	0.08	---
		Total HAPs	2.13	---
PB-47, PB-48, & PB-50	Dryer Nos. 1, 2, and 4 (9)	VOC (11)	---	209.62
		NO_X	---	53.30
		SO_2	---	0.57
		PM	---	84.31
		PM_{10} (13)	---	79.63
		$PM_{2.5}$ (13)	---	31.54
		CO	---	49.88
		Acetaldehyde	---	1.08
		Acrolein	---	1.07
		Benzene	---	0.05
		Formaldehyde	---	2.91
		Hydrochloric Acid	---	5.54
		Manganese	---	0.16
		Methanol	---	3.15
		Phosphorus	---	1.00
		Total HAPs	---	18.49
PB-COREBIN	Core Dry Bin Vent	VOC (14)	0.13	0.55

Emission Sources - Maximum Allowable Emission Rates

		PM	0.01	0.06
		PM_{10}	0.01	0.06
		$PM_{2.5}$	0.01	0.06
		Total HAPs	0.03	0.15
PB-FACEBIN	Face Dry Bin Vent	VOC (14)	0.13	0.55
		PM	0.01	0.06
		PM_{10}	0.01	0.06
		$PM_{2.5}$	0.01	0.06
		Total HAPs	0.03	0.15
PB-53	PB Press Regenerative Thermal Oxidizer (RTO) Stack	VOC (11)	1.11	3.11
		NO_X	3.94	17.30
		SO_2	<0.01	0.01
		PM	0.78	2.18
		PM_{10}	0.45	1.26
		$PM_{2.5}$	0.35	0.97
		CO	4.80	21.00
		Formaldehyde	0.63	1.78
		Methyl Isobutyl Ketone	0.48	1.35
		Total HAPs	1.42	3.93
PB-53-FU	Press Fugitives (5)	VOC (11)	3.52	9.92
		PM	0.11	0.32
		PM_{10}	0.06	0.16

Emission Sources - Maximum Allowable Emission Rates

		$PM_{2.5}$	0.05	0.14
		Total HAPs	0.12	0.34
PB-55	Board Cooler Vent	VOC (11)	7.72	21.74
		PM	2.02	5.69
		PM_{10}	2.02	5.69
		$PM_{2.5}$	1.88	5.30
		Formaldehyde	0.40	1.13
		Methanol	0.95	2.68
		Total HAPs	1.71	4.81
PB-56	Board Sawing (Hog Reclaim Cyclone) Baghouse Stack (16)	VOC (11)	1.78	5.02
		PM	0.72	3.16
		PM_{10}	0.57	2.49
		$PM_{2.5}$	0.46	2.02
		Methanol	0.50	1.40
		Total HAPs	0.61	1.72
PB-57A	Board Sanding Cyclone and Baghouse No. 1 Stack (10)	VOC (11)	1.58	4.46
		PM	1.25	3.53
		PM_{10}	1.25	3.53
		$PM_{2.5}$	0.87	2.44
		Acetaldehyde	0.12	0.35
		Formaldehyde	0.01	0.02
		Methanol	0.37	1.06

Emission Sources - Maximum Allowable Emission Rates

		Phenol	0.14	0.40
		Total HAPs	0.65	1.82
PB-57B	Board Sanding Baghouse No. 2 Stack (10)	VOC (11)	5.14	14.47
		PM	4.15	11.67
		PM_{10}	4.15	11.67
		$PM_{2.5}$	3.12	8.78
		Acetaldehyde	0.37	1.04
		Formaldehyde	0.08	0.23
		Methanol	1.30	3.66
		Phenol	0.43	1.21
		Total HAPs	2.18	6.15
PB-58-FU	Refiner Belt Conveyors (5)	PM	0.27	0.72
		PM_{10}	0.13	0.34
		$PM_{2.5}$	0.02	0.05
PB-59	Raw Material Overs Hammermill Baghouse Vent	VOC (11)	2.01	5.06
		PM	0.07	0.17
		PM_{10}	0.07	0.17
		$PM_{2.5}$	0.07	0.17
		Total HAPs	0.16	0.40
PB-59-FU	Overs Belt Conveyor (5)	PM	0.01	0.03
		PM_{10}	0.01	0.01
		$PM_{2.5}$	<0.01	<0.01

Emission Sources - Maximum Allowable Emission Rates

PB-60	Mat Rejects and Weighing Cyclone and Baghouse Stack	VOC (11)	0.39	1.09
		PM	0.34	0.79
		PM_{10}	0.25	0.58
		$PM_{2.5}$	0.18	0.42
		Total HAPs	0.14	0.38
PB-61-FU	Material Cleanup (5)	PM	0.23	0.58
		PM_{10}	0.11	0.27
		$PM_{2.5}$	0.02	0.04
PB-62-FU	Sanderdust Truck Loading (5)	PM	0.06	0.01
		PM_{10}	0.03	0.01
		$PM_{2.5}$	<0.01	<0.01
PB-63-FU	Fuel Transfer (5)	PM	0.01	0.05
		PM_{10}	0.01	0.02
		$PM_{2.5}$	<0.01	<0.01
PB-65	Value-Added Saws Baghouse Stack (16**)**	VOC (11)	1.78	5.02
		PM	0.52	2.28
		PM_{10}	0.41	1.80
		$PM_{2.5}$	0.33	1.46
		Methanol	0.50	1.40
		Total HAPs	0.61	1.72

(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

Emission Sources - Maximum Allowable Emission Rates

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, including methanol and formaldehyde totals.

(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) Compliance with hourly emission rates for all non-fugitive sources shall be demonstrated on a 3-hour average basis. Compliance with hourly emission rates for all fugitive sources shall be demonstrated on a daily average basis.
(8) Compliance will be maintained as the sum of the emissions from Hammermill Nos**.** 1 and 2, and Nos. 3 and 5. Georgia Pacific will maintain records of production for each dryer to verify that the annual total limit is not exceeded.
(9) Annual compliance will be maintained as the sum of the emissions from Dryer Nos. 1, 2, and 4. Georgia Pacific will maintain records of production for each dryer to verify that the annual total limit is not exceeded.
(10) Annual compliance will be maintained as the sum of emissions from two Sander Baghouses.
(11) VOC presented on a Wood Products Protocol No. 1 (WPP1) basis.
(12) VOC presented on a propane basis.
(13) PM_{10} and $PM_{2.5}$ emissions based on Method 5, Method 202, and Electrical Sensing Zone particle size distribution analysis.
(14) VOC presented as sum of VOC compounds.
(15) Compliance with the hourly emission rates NO_X, SO_2, and CO shall be demonstrated based on the sum of the emissions from EPNs PB-47, PB-48, and PB-50.
(16) Compliance with the hourly and annual emission rates shall be demonstrated based on the sum of the emissions from the two baghouses.

Date: June 28, 2019