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 (4)	
			lbs/hour	TPY
PB-32-FU	Truck Dump (5)	PM	0.44	0.72
		PM_{10}	0.21	0.34
		$PM_{2.5}$	0.03	0.05
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 Baghouse Stack (7)	VOC	33.11	83.58
		PM	1.30	3.30
		PM_{10}	1.15	2.93
		$PM_{2.5}$	1.11	2.82
		Methanol	0.97	2.45
		Total HAPs	1.34	3.38
PB-41	Hammermill Nos. 1 and 2 Feed Material Baghouse Stack (7)	VOC	33.11	83.58
		PM	1.30	3.30
		PM_{10}	1.15	2.93
		$PM_{2.5}$	1.11	2.82
		Methanol	0.97	2.45
		Total HAPs	1.34	3.38
PB-44	Sander Dust Boiler Electrostatic Precipitator Stack	VOC	0.48	2.10
		NO_X	62.88	275.40
		SO_2	1.20	5.26
		PM	11.60	50.80
		PM_{10}	10.30	45.11
		$PM_{2.5}$	5.71	24.99
		CO	186.80	818.20
		Hydrochloric Acid	0.76	3.32

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		Total HAPs	1.79	7.86
PB-46	Sander Dust Fuel Bin Fabric Filter Stack	PM	0.75	2.10
		PM_{10}	0.25	0.72
		$PM_{2.5}$	0.01	0.04
		VOC	1.42	4.00
		Total HAPs	0.80	2.24
PB-47	Dryer No. 1 Multiclone Stack (7)	VOC	18.17	154.25
		NO_X	4.62	39.22
		SO_2	0.35	4.60
		PM	7.22	61.29
		PM_{10}	7.22	61.29
		$PM_{2.5}$	7.22	61.29
		CO	4.32	36.70
		Acetaldehyde	0.33	2.85
		Acrolein	0.14	1.20
		Benzene	0.13	1.32
		Formaldehyde	2.98	8.37
		Hydrochloric Acid	0.70	6.99
		Manganese	0.10	1.30
		Methanol	0.72	6.20
		Phosphorus	0.08	1.00
		Total HAPs	5.88	36.01
PB-48	Dryer No. 2 Multiclone Stack (7)	VOC	18.17	154.25
		NO_X	4.62	39.22
		SO_2	0.35	4.60
		PM	7.22	61.29
		PM_{10}	7.22	61.29
		$PM_{2.5}$	7.22	61.29
		CO	4.32	36.70
		Acetaldehyde	0.33	2.85
		Acrolein	0.14	1.20
		Benzene	0.13	1.32
		Formaldehyde	2.98	8.37

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		Hydrochloric Acid	0.70	6.99
		Manganese	0.10	1.30
		Methanol	0.72	6.20
		Phosphorus	0.08	1.00
		Total HAPs	5.88	36.01
PB-49	Dryer No. 3 Multiclone Stack	VOC	4.27	10.78
		NO_X	10.60	34.74
		SO_2	0.27	1.18
		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	0.61	1.86
		Total HAPs	1.12	3.38
PB-50	Dryer No. 4 Multiclone Stack (7)	VOC	24.78	154.25
		NO_X	6.30	39.22
		SO_2	0.35	4.60
		PM	9.84	61.29
		PM_{10}	9.84	61.29
		$PM_{2.5}$	9.84	61.29
		CO	5.90	36.70
		Acetaldehyde	0.45	2.85
		Acrolein	0.18	1.20
		Benzene	0.16	1.32
		Formaldehyde	2.98	8.37
		Hydrochloric Acid	0.88	6.99
		Manganese	0.11	1.30
		Methanol	0.98	6.20
		Phosphorus	0.08	1.00
		Total HAPs	6.70	36.01
PB-COREBIN	Core Dry Bin Vent	PM	0.01	0.06
		PM_{10}	0.01	0.06
		$PM_{2.5}$	0.01	0.06

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		VOC	0.13	0.55
		Total HAPs	0.03	0.15
PB-FACEBIN	Face Dry Bin Vent	PM	0.01	0.06
		PM_{10}	0.01	0.06
		$PM_{2.5}$	0.01	0.06
		VOC	0.13	0.55
		Total HAPs	0.03	0.15
PB-51	Forming Line Baghouse Stack	PM	0.84	2.00
		PM_{10}	0.29	0.68
		$PM_{2.5}$	0.02	0.04
		VOC	0.49	1.37
		Methanol	0.43	1.22
		Total HAPs	0.46	1.30
PB-53	PB Press Regenerative Thermal Oxidizer (RTO) Stack	VOC	1.94	5.46
		NO_X	3.94	17.30
		SO_2	<0.01	<0.01
		PM	0.71	2.00
		PM_{10}	0.71	2.00
		$PM_{2.5}$	0.71	2.00
		CO	4.80	21.00
		Acetaldehyde	0.51	1.44
		Methyl Isobutyl Ketone	0.48	1.35
		Total HAPs	1.90	5.39
PB-55	Cooling Vent	VOC	4.20	11.82
		PM	7.46	21.00
		PM_{10}	7.46	21.00
		$PM_{2.5}$	7.46	21.00
		Formaldehyde	1.87	5.28
		Methanol	6.71	18.89
		Total HAPs	9.11	25.64
PB-56	Board Sawing (Hog Reclaim Cyclone) Baghouse Stack	VOC	1.78	5.02
		PM	1.43	4.00

Emission Sources - Maximum Allowable Emission Rates

		PM_{10}	1.27	3.55
		$PM_{2.5}$	1.22	3.42
		Methanol	0.50	1.40
		Total HAPs	0.61	1.72
PB-57A	Board Sanding Cyclone and Baghouse No. 1 Stack	VOC	0.91	2.56
		PM	0.28	0.79
		PM_{10}	0.10	0.27
		$PM_{2.5}$	0.01	0.02
		Acetaldehyde	0.12	0.35
		Formaldehyde	0.12	0.33
		Methanol	0.13	0.35
		Phenol	0.14	0.40
		Total HAPs	0.51	1.43
PB-57B	Board Sanding Cyclone and Baghouse No. 2 Stack	VOC	2.73	7.68
		PM	2.80	7.87
		PM_{10}	0.95	2.69
		$PM_{2.5}$	0.06	0.16
		Acetaldehyde	0.12	0.35
		Formaldehyde	0.35	0.98
		Methanol	0.13	0.35
		Phenol	0.14	0.40
		Total HAPs	1.53	4.30
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 Stack	VOC	3.31	8.36
		PM	5.20	13.10
		PM_{10}	1.77	4.47
		$PM_{2.5}$	0.10	0.26
		Total HAPs	0.13	0.34
PB-59-FU	Overs Belt Conveyor (5) Conveyor (5)	PM	<0.01	<0.01
		PM_{10}	<0.01	<0.01
		$PM_{2.5}$	<0.01	<0.01

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PB-60	Mat Rejects and Weighing Cyclone and Baghouse Stack	PM	0.34	0.80
		PM_{10}	0.11	0.27
		$PM_{2.5}$	0.01	0.02
		VOC	0.39	1.09
		Total HAPs	0.37	1.04
PB-61-FU	Material Cleanup (5)	PM	0.23	0.58
		PM_{10}	0.11	0.27
		$PM_{2.5}$	0.02	0.04

(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, including methanol and formaldehyde totals. The numbers reflected include the emissions of methanol and formaldehyde.
(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) Annual compliance will be maintained on the sum of the emissions from Hammermill Nos. 1,2,3, and 5. Georgia Pacific will maintain records of production for each dryer to verify that the annual total limit is not exceeded.
(8) Annual compliance will be maintained on 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.

Date: DRAFT