Emission Sources - Maximum Allowable Emission Rates

Permit Number 1556

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)
Scenario 1: Post-Project Emission Rates (7)				
1E	Hogger Throat	PM	3.50	0.42
		PM_{10}	0.53	0.06
		$PM_{2.5}$	0.04	<0.01
2E	Fresh Chip Storage Building	PM	0.04	0.04
		PM_{10}	0.02	0.02
		$PM_{2.5}$	<0.01	<0.01
5E	Conveyor Transfer Point 2	PM	0.03	0.04
		PM_{10}	0.01	0.02
		$PM_{2.5}$	<0.01	<0.01
8E	Hammermill Cyclone	PM	3.50	0.42
		PM_{10}	0.53	0.06
		$PM_{2.5}$	0.04	<0.01
9E	Hammermill Storage Bin Fabric Filter Vent	PM	0.03	0.04
		PM_{10}	0.01	0.02
		$PM_{2.5}$	<0.01	<0.01
12E	Chip Transfer to Trucks	PM	0.03	0.04
		PM_{10}	0.01	0.02
		$PM_{2.5}$	<0.01	<0.01
1N	Primary Grinder	PM	1.40	4.37
		PM_{10}	0.21	0.66
		$PM_{2.5}$	0.01	0.04
2N	Raw Fiber Load-Out to Conveyor 2	PM	0.01	0.04
		PM_{10}	0.01	0.02
		$PM_{2.5}$	<0.01	<0.01

Emission Sources - Maximum Allowable Emission Rates

3N	Secondary Grinder	PM	1.40	4.37
		PM_{10}	0.21	0.66
		$PM_{2.5}$	0.01	0.04
4N	Raw Fiber Load-Out to Conveyor 3	PM	0.01	0.04
		PM_{10}	0.01	0.02
		$PM_{2.5}$	<0.01	<0.01
5N	Fiber Feed Silo	PM	0.01	0.04
		PM_{10}	0.01	0.02
		$PM_{2.5}$	<0.01	<0.01
6N	Raw Fiber Load-Out to Conveyor 4	PM	0.01	0.04
		PM_{10}	0.01	0.02
		$PM_{2.5}$	<0.01	<0.01
7N	Raw Fiber Load-in to Oil Extraction Tanks	PM	0.01	0.04
		PM_{10}	0.01	0.02
		$PM_{2.5}$	<0.01	<0.01
8N	Steam Assisted Spent Fiber Removal	PM	0.01	0.04
		PM_{10}	0.01	0.02
		$PM_{2.5}$	<0.01	<0.01
9N	Spent Fiber Load-out to Conveyor 5	PM	0.01	0.03
		PM_{10}	0.01	0.01
		$PM_{2.5}$	<0.01	<0.01
10N	Spent Fiber Silo	PM	0.01	<0.01
		PM_{10}	0.01	<0.01
		$PM_{2.5}$	<0.01	<0.01
11N	Raw Fiber Load-Out to Conveyor 6	PM	0.01	<0.01
		PM_{10}	0.01	<0.01
		$PM_{2.5}$	<0.01	<0.01
12N-1	Spent Fiber Load-in to Boiler 1	PM	0.01	0.03
		PM_{10}	<0.01	0.01
		$PM_{2.5}$	<0.01	<0.01
12N-2	Spent Fiber Load-in to Boiler 2	PM	0.01	0.03

Emission Sources - Maximum Allowable Emission Rates

		PM_{10}	<0.01	0.01
		$PM_{2.5}$	<0.01	<0.01
13N	Boiler 1	PM	4.66	20.43
		PM_{10}	4.24	18.57
		$PM_{2.5}$	2.54	11.14
		NO_x	4.66	20.43
		CO	12.72	55.71
		SO_2	0.53	2.32
		VOC	0.36	1.58
13N	Boiler 2	PM	4.66	20.43
		PM_{10}	4.24	18.57
		$PM_{2.5}$	2.54	11.14
		NO_x	4.66	20.43
		CO	12.72	55.71
		SO_2	0.53	2.32
		VOC	0.36	1.58
BOILER CAP	Boiler Cap	PM	9.33	36.77
		PM_{10}	8.48	33.43
		$PM_{2.5}$	5.09	20.06
		NO_x	9.33	36.77
		CO	25.44	100.28
		SO_2	1.06	4.18
		VOC	0.72	2.84
14N	Spent Fiber Overflow to Trucks	PM	<0.01	<0.01
		PM_{10}	<0.01	<0.01
		$PM_{2.5}$	<0.01	<0.01
15N	Cedar Oil Processing	VOC	0.59	0.04
16N	Cedar Oil Drum Filling	VOC	<0.01	<0.01
Scenario 2: Pre-Project Emission Rates (7)				
1E	Hogger Throat	PM	3.50	0.42
		PM_{10}	0.53	0.06

Emission Sources - Maximum Allowable Emission Rates

		$PM_{2.5}$	0.04	<0.01
2E	Fresh Chip Storage Building	PM	0.04	0.04
		PM_{10}	0.02	0.02
		$PM_{2.5}$	<0.01	<0.01
5E	Conveyor Transfer Point No. 2	PM	0.03	0.04
		PM_{10}	0.01	0.02
		$PM_{2.5}$	<0.01	<0.01
8E	Hammermill Cyclone	PM	3.50	0.42
		PM_{10}	0.53	0.06
		$PM_{2.5}$	0.04	<0.01
9E	Hammermill Storage Bin Fabric Filter Vent	PM	0.03	0.04
		PM_{10}	0.01	0.02
		$PM_{2.5}$	<0.01	<0.01
10	Vessels Load-in	PM	0.62	1.44
		PM_{10}	0.35	0.82
		$PM_{2.5}$	0.35	0.82
11A	Cooking Vat Loadout Vent Stack	PM	0.25	0.58
		PM_{10}	0.14	0.33
		$PM_{2.5}$	0.14	0.33
12E	Chip Transfer to Trucks	PM	0.03	0.04
		PM_{10}	0.01	0.02
		$PM_{2.5}$	<0.01	<0.01
15	Bin Dump/Truck Loading	PM	2.0	2.63
		PM_{10}	1.1	1.5
		$PM_{2.5}$	1.1	1.5
17A	Boiler Nos. 6, 7, and 8	PM	13.5	34.65
		PM_{10}	12.3	31.8
		$PM_{2.5}$	12.3	31.8
		SO_2	0.33	0.42
		NO_x	1.53	2.19
		CO	58.5	38.18
		VOC	3.15	1.05

Emission Sources - Maximum Allowable Emission Rates

CSP	Cedar Chip Stockpile (5)	PM	--	2.44
		PM_{10}	--	1.22
		$PM_{2.5}$	--	1.22
15N	Cedar Oil Processing	VOC	0.59	0.04
16N	Cedar Oil Drum Filling	VOC	<0.01	<0.01

(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
(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 are not authorized by this permit.
(7) Scenario 1 emission rates are effective upon completion and startup of the project represented in the permit amendment application, PI-1 dated May 19, 2023. Scenario 2 emission rates are effective until the startup of the project.

Date: January 19, 2024