Emission Sources - Maximum Allowable Emission Rates

Permit Number 7286 and PSDTX892M2

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)
Operating Scenario 1				
BOILER-1	Wood-Fired Boiler Venturi Scrubber Stack	VOC[#]	3.26	14.30
		NO_x	18.00	78.84
		SO_2	2.40	10.51
		PM	9.47	41.47
		PM_{10}	9.47	41.47
		$PM_{2.5}$	9.35	40.97
		CO	100.78	441.40
		HAP*	0.41	1.80
PLANER-1	Planer Mill Cyclone Filter 1 Stack	PM	9.00	39.42
		PM_{10}	6.27	27.46
		$PM_{2.5}$	2.49	10.90
CKILN-1	Continuous Wood Drying Kiln No. 1 Vents (7)	VOC[##]	57.29	---
		PM	1.00	---
		PM_{10}	1.00	---
		$PM_{2.5}$	0.99	---
		HCHO**	0.17	---
		MeOH**	3.93	---
		HAP*	4.30	---
CKILN-2	Continuous Wood Drying Kiln No. 2 Vents (7)	VOC[##]	57.29	---
		PM	1.00	---
		PM_{10}	1.00	---
		$PM_{2.5}$	0.99	---
		HCHO**	0.17	---

Emission Sources - Maximum Allowable Emission Rates

		MeOH**	3.93	---
		HAP*	4.30	---
CKILN-1 and CKILN-2	Total Annual Emissions from both Kilns (7)	VOC[##]	-	481.25
		PM	-	7.64
		PM_{10}	-	7.64
		$PM_{2.5}$	-	7.59
		HCHO**	-	1.38
		MeOH**	-	33.00
		HAP*	-	36.08
DEBARK-1	Log Debarker No. 1 (8) (5)	PM	0.15	---
		PM_{10}	0.04	---
DEBARK-2	Log Debarker No. 2 (8) (5)	PM	0.73	---
		PM_{10}	0.22	---
DEBARK-1 and DEBARK-2	Total Annual Emissions from both Debarkers (8) (5)	PM	-	1.32
		PM_{10}	-	0.40
SAW-1	Cutup Saw Line No. 1 (5)	PM	0.47	0.43
		PM_{10}	0.17	0.16
CHIPBIN-1	Truck Loadout No. 1 (5)	PM	0.07	0.04
		PM_{10}	0.03	0.02
		$PM_{2.5}$	<0.01	<0.01
CHIPBIN-2	Truck Loadout No. 2 (5)	PM	0.09	0.10
		PM_{10}	0.04	0.05
		$PM_{2.5}$	<0.01	<0.01
CHIPBIN-3	Truck Loadout No. 3 (5)	PM	0.03	0.02
		PM_{10}	0.02	0.01
		$PM_{2.5}$	<0.01	<0.01
TP-FUG	Transfer Point Fugitives (5)	PM	2.91	2.15
		PM_{10}	1.38	1.02
		$PM_{2.5}$	0.21	0.15

Emission Sources - Maximum Allowable Emission Rates

Operating Scenario 2* **				
BOILER-1	Wood-Fired Boiler Venturi Scrubber Stack	VOC[#]	3.26	14.30
		NO_x	18.00	78.84
		SO_2	2.40	10.51
		PM	9.47	41.47
		PM_{10}	9.47	41.47
		$PM_{2.5}$	9.35	40.97
		CO	100.78	441.40
		HAP*	0.27	1.20
BOILER-2	BOILER-2 ESP Stack	VOC[#]	1.93	5.91
		NO_x	12.41	38.02
		SO_2	1.72	5.28
		PM	2.21	6.76
		PM_{10}	2.21	6.76
		$PM_{2.5}$	2.21	6.76
		CO	27.57	84.50
		NH_3	1.05	3.21
MSS-BOILER	MSS BOILER	VOC[#]	1.93	<0.01
		NO_x	23.80	0.86
		SO_2	1.72	0.02
		PM	14.45	0.53
		PM_{10}	10.69	0.39
		$PM_{2.5}$	9.39	0.34
		CO	28.90	1.04
PLANER-1	Planer Mill Cyclone Filter 1 Stack	PM	2.14	9.38
		PM_{10}	2.14	9.38
		$PM_{2.5}$	1.35	5.91
PLANER-2	Planer Mill Cyclone Filter 2 Stack	PM	0.61	2.68
		PM_{10}	0.61	2.68

Emission Sources - Maximum Allowable Emission Rates

		$PM_{2.5}$	0.39	1.69
C-1	Cyclone 1	PM	0.15	0.68
		PM_{10}	0.05	0.24
		$PM_{2.5}$	0.02	0.07
C-2	Cyclone 2	PM	0.15	0.68
		PM_{10}	0.05	0.24
		$PM_{2.5}$	0.02	0.07
CKILN-1	Continuous Wood Drying Kiln No. 1 Vents (7)	VOC[##]	72.37	---
		PM	1.00	---
		PM_{10}	1.00	---
		$PM_{2.5}$	0.99	---
		HCHO**	0.16	---
		MeOH**	3.30	---
		HAP*	4.47	---
CKILN-2	Continuous Wood Drying Kiln No. 2 Vents (7)	VOC[##]	72.37	---
		PM	1.00	---
		PM_{10}	1.00	---
		$PM_{2.5}$	0.99	---
		HCHO**	0.16	---
		MeOH**	3.30	---
		HAP*	4.47	---
CKILN-1 and CKILN-2	Total Annual Emissions from both Kilns (7)	VOC[##]	-	552.67
		PM	-	7.64
		PM_{10}	-	7.64
		$PM_{2.5}$	-	7.59
		HCHO**	-	1.22
		MeOH**	-	25.20
		HAP*	-	34.11
CKILN-3	Continuous Wood Drying Kiln No. 3	VOC[##]	89.17	267.50

Emission Sources - Maximum Allowable Emission Rates

	Vents			
DEBARK-1	Log Debarker No. 1 (8) (5)	PM	0.16	---
		PM_{10}	0.05	---
DEBARK-2	Log Debarker No. 2 (8) (5)	PM	0.79	---
		PM_{10}	0.24	---
DEBARK-1 and DEBARK-2	Total Annual Emissions from both Debarkers (8) (5)	PM	-	1.58
		PM_{10}	-	0.47
SAW-1	Cutup Saw Line No. 1 (5)	PM	0.45	0.89
		PM_{10}	0.16	0.32
CHIPBIN-1	Truck Loadout No. 1 (5)	PM	0.06	0.04
		PM_{10}	0.03	0.02
		$PM_{2.5}$	<0.01	<0.01
CHIPBIN-2	Truck Loadout No. 2 (5)	PM	0.10	0.10
		PM_{10}	0.05	0.05
		$PM_{2.5}$	<0.01	<0.01
CHIPBIN-3	Truck Loadout No. 3 (5)	PM	0.07	0.04
		PM_{10}	0.03	0.02
		$PM_{2.5}$	<0.01	<0.01
CHIPBIN-4	Truck Loadout No. 4 (5)	PM	0.06	0.04
		PM_{10}	0.03	0.02
		$PM_{2.5}$	<0.01	<0.01
CHIPBIN-5	Truck Loadout No. 5 (5)	PM	0.10	0.10
		PM_{10}	0.05	0.05
		$PM_{2.5}$	0.01	0.01
TP-FUG	Transfer Point Fugitives (5)	PM	2.91	2.15
		PM_{10}	1.38	1.02
		$PM_{2.5}$	0.21	0.15

(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.

Emission Sources - Maximum Allowable Emission Rates

(3) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code (TAC) Chapter 101.1.

VOC emissions estimates from the boiler are based on VOC measured as carbon.

VOC emissions from the kilns are estimated using Wood Products Protocol 1 (WPP1).

* Also included in total VOC or PM, as appropriate

** Also included in total HAP

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

NH_3 - ammonia

HCHO - Formaldehyde

MeOH - Methanol

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 maintenance identified as part of the permit alteration request authorized on April 5, 2013.

(7) Annual compliance will be maintained on the sum of the emissions from the two lumber kilns. West Fraser will maintain records of production for each kiln to verify that the annual total limit is not exceeded.

(8) Annual compliance will be maintained on the sum of the emissions from the two debarkers. West Fraser will maintain records of total tons of logs processed through both debarkers (aggregate) to verify that the annual total limit is not exceeded.

*** Operating Scenario 2 will result from the changes authorized by TCEQ Project No. 287216 and Project No. 354336.

Date: November 8, 2023