

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Numbers 22377 and PSD-TX-832M4

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. 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 *	
			lb/hr	TPY
RTOEAST and RTOWEST**	Dryer RTOs	PM ₁₀	10.51	37.44
		VOC _(i)	6.88	24.52
		NO _x	56.86	202.51
		SO ₂	2.18	9.55
		CO	148.51	528.94
		HCHO	1.32	4.71
DRYER MSS***	Dryers 1-5 Bypass	PM	28.00	3.09
		PM ₁₀	20.00	2.29
		VOC _(i)	40.50	4.26
		NO _x	20.59	4.11
		CO	26.50	5.81
		HCHO	2.27	0.23
RTOPRESS/RCOPRESS 15.31	Press RTO/RCO	PM ₁₀	4.24	
		VOC _(i)	6.19	22.36
		NO _x	15.66	56.55
		SO ₂	0.01	0.04
		CO	53.28	192.40
		HCHO	1.73	6.24
		MDI	0.10	0.44
		C ₆ H ₅ OH	1.44	5.19
PRESSVENT MSS	Press Bypass	PM	4.66	0.12
		PM ₁₀	2.33	0.06
		VOC _(i)	25.27	0.63
		NO _x	0.37	0.01
		SO ₂	0.33	0.01
		CO	0.90	0.02
		HCHO	0.68	0.02
		MDI	0.12	<0.01

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			lb/hr	TPY
		C ₆ H ₅ OH	0.34	0.01
S-1	Saw Line Collector	PM ₁₀ #	1.34	5.89
		VOC _(i)	3.35	12.45
S-1 MSS ##	Saw Line Bypass	PM ₁₀ #	4.03	0.20
S-2	Aspiration System	PM ₁₀ #	0.62	2.71
	Baghouse	VOC _(i)	15.37	57.07
		HCHO	0.43	1.60
		MDI	<0.01	0.02
		C ₆ H ₅ OH	0.01	0.02
		MeOH	7.07	26.25
S-3/4	Raw Fuel Bin Collector	PM ₁₀ #	0.58	2.52
		VOC _(i)	7.88	29.25
		HCHO	0.05	0.20
		MeOH	0.12	0.46
S-3/4 MSS##	Raw Fuel Bypass	PM ₁₀ #	3.46	0.35
S-5	Material Reject Collector	PM ₁₀ #	1.43	6.28
		VOC _(i)	2.60	9.67
		HCHO	0.07	0.26
		MDI	<0.01	<0.01
		C ₆ H ₅ OH	<0.01	0.01
		MeOH	0.35	1.30
S-6	Tongue and Grove	PM ₁₀ #	1.12	4.93
	Sanderdust Collector	VOC _(i)	1.51	5.62
S-7	T and G/Sander Transfer	PM ₁₀ #	0.02	0.08
	Bin Baghouse	VOC _(i)	1.51	5.62
S-10	Dry Fuel Silo	PM ₁₀ #	0.71	3.10
		VOC _(i)	5.87	21.81
		MeOH	0.11	0.42

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			lb/hr	TPY
S-9	Thermal Oil Heater Fuel System	PM ₁₀ #	0.39	1.69
		VOC _(i)	0.98	3.64
		MeOH	0.02	0.07
R-1	PF Tank 1	HCHO	0.02	0.01
R-2	PF Tank 2	HCHO	0.02	0.01
R-3	MDI Tank 1	MDI	<0.01	<0.01
R-4	MDI Tank 2	MDI	<0.01	<0.01
T-1	Gasoline Tank	VOC###	0.30	0.66
T-3	Diesel Tank	VOC	0.10	<0.01
F-1	Fuel Pile (4)	PM ₁₀	0.04	0.17
		VOC	0.40	1.76
F-2	Roadways (4)	PM	12.41	27.19
		PM ₁₀	2.42	5.30
F-3	Wet Deck (4)	PM	14.38	8.41
		PM ₁₀	4.47	2.62
BARK	Bark Handling System (4)	PM	0.54	1.18
		PM ₁₀	0.19	0.41
FINES	Excess Fuel System (4)	PM	0.06	0.13
		PM ₁₀	0.02	0.04
TOH-1****	Thermal Oil Heater Bypass Stack	PM ₁₀	0.24	1.04
		VOC _(i)	0.17	0.76
		NO _x	3.14	13.74
		SO ₂	0.02	0.08
		CO	2.64	11.54

GEN-1	Emergency Generator	PM ₁₀	4.50	0.34
		VOC	0.15	0.01
		NO _x	11.84	0.89
		SO ₂	3.24	0.24
		CO	5.42	0.41
FWP-1	Fire Water Pump	PM ₁₀	1.58	0.08
		VOC	0.18	0.01
		NO _x	4.54	0.23
		SO ₂	1.18	0.06
		CO	4.54	0.23
PB-1	Paint Booth	PM ₁₀	0.68	1.49
		VOC	1.54	3.37
PB-2	T & G Paint Booth	PM ₁₀	0.65	1.42
		VOC	1.46	3.19

- (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)
 - PM - particulate matter, suspended in the atmosphere, including PM₁₀
 - PM₁₀ - particulate matter equal or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no PM greater than 10 microns is emitted.
 - VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1 (VOC quantified as Propane).
 - NO_x - total oxides of nitrogen
 - SO₂ - sulfur dioxide
 - CO - carbon monoxide
 - HCHO - formaldehyde
 - MDI - methylene-diphenyl-diisocyanate
 - C₆H₅OH - phenol
 - MeOH - methanol

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(4) Fugitive emissions are an estimate.

- * Emission rates are based on and the facilities are limited by the following maximum operating schedule:

Hrs/day 24 Days/week 7 Weeks/year 52 or Hrs/year 8,760

A total maximum press daily throughput of 1,728,000 ft² of waferboard (on 3/8-inch basis), and a total maximum annual plant throughput of 520,000,000 ft² of 3/8-inch oriented strand board processed as calculated in Special Condition No. 26.

** Maximum combined emissions for both RTOs.

*** Represent total emissions from all 5 dryers. The total emissions for the 5 dryers were used in the modeling.

**** The thermal oil heaters vent to the atmosphere through this bypass stack only when these thermal oil heaters use natural gas as fuel.

Also counted as wood dust.

These are not additional EPNs but represent emissions from EPNs S-1 to S-3/4 during emergency shutdown.

VOC includes benzene.

i VOCs are quantified as propane.

Dated March 9, 2007