

# EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 22377 and PSD-TX-832

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 *	Source	Air Contaminant	<u>Emission Rates</u>	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
RTOEAST**	East Dryer Regenerative Thermal Oxidizer	TSP (a)	10.82	27.62
		PM <sub>10</sub> (a)	10.82	27.62
		VOC (a)	24.89	63.52
		NO <sub>x</sub>	40.18	172.35
		SO <sub>2</sub>	0.88	3.66
		CO	78.14	114.08
		HCHO 0.23	0.31	
RTOWEST**	West Dryer Regenerative Thermal Oxidizer	TSP (a)	10.82	27.62
		PM <sub>10</sub> (a)	10.82	27.62
		VOC (a)	24.89	63.52
		NO <sub>x</sub>	40.18	172.35
		SO <sub>2</sub>	0.88	3.66
		CO	78.14	114.08
		HCHO (b)	0.23	0.31
RTOPRESS	Press Regenerative Thermal Oxidizer	TSP (a)	0.52	1.36
		PM <sub>10</sub> (a)	0.52	1.36
		VOC (a)	5.53	14.61
		NO <sub>x</sub>	12.84	56.23
		SO <sub>2</sub>	0.01	0.03
		CO	20.84	91.27
		HCHO (b)	0.48	1.46
		MDI (b)	0.01	0.03
S-1	Saw Line Abort Collector	C <sub>6</sub> H <sub>5</sub> OH (b)	0.16	0.51
		TSP		1.46

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4.66

PM <sub>10</sub>	1.46	4.66
Wood Dust	1.46	4.66

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Emission * <u>Point No. (1)</u>	Source <u>Name (2)</u>	Air Contaminant <u>Name (3)</u>	<u>Emission Rates</u> lb/hrTPY	
S-2	Aspiration System Baghouse	TSP PM <sub>10</sub> Wood Dust	0.73 0.73 0.73	3.20 3.20 3.20
S-3/4	Raw Fuel Bin Abort Collector 10.12	TSP PM <sub>10</sub> Wood Dust	2.31 2.31 2.31	2.31 10.12 10.12
S-5	Mat Reject Abort Collector 0.07	TSP PM <sub>10</sub> Wood Dust	0.11 0.11 0.11	0.11 0.07 0.07
S-6	T & G/Sanderdust Abort 2.28 Collector	TSP PM <sub>10</sub> Wood Dust	0.71 0.71 0.71	0.71 2.28 2.28
S-7	Sanderdust Receiving Bin 2.28 Baghouse	TSP PM <sub>10</sub> Wood Dust	0.71 0.71 0.71	0.71 2.28 2.28
S-8	Finish Fuel Bin Baghouse 6.61	TSP PM <sub>10</sub> Wood Dust	1.51 1.51 1.51	1.51 6.61 6.61

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S-9	Thermal Oil Regrind Abort Collector	TSP	1.54	6.76
		PM <sub>10</sub>	1.54	6.76
		Wood Dust	1.54	6.76
C-1	Edge Seal/Stencil Paint (4)	VOC	3.29	8.72
R-1	PF Tank 1 (4)	HCHO (b)	0.79	0.02
R-2	PF Tank 2 (4)	HCHO (b)	0.79	0.02

## AIR

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<u>Emission</u> *	Source	Air Contaminant	<u>Emission Rates</u>	
<u>Point No. (1)</u>	<u>Name (2)</u>	<u>Name (3)</u>	<u>lb/hrTPY</u>	
R-3	MDI Tank 1 (4)	MDI (b)	<.01	<.01
R-4	MDI Tank 2 (4)	MDI (b)	<.01	<.01
T-1	Gasoline Tank 1	VOC (b)	0.13	0.32
		C <sub>6</sub> H <sub>6</sub> (b)	0.01	0.02
T-2	Gasoline Tank 2	VOC (b)	0.13	0.32
		C <sub>6</sub> H <sub>6</sub> (b)	0.01	0.02
T-3	Diesel Tank 1 (4)	VOC	0.13	<.01
T-4	Diesel Tank 2 (4)	VOC	0.13	<.01
F-1	Log Processing (4)	TSP	0.02	0.08
		PM <sub>10</sub>	0.01	0.04
		Wood Dust	0.01	0.04
F-2	Roadways (4)	TSP	3.33	14.56
		PM <sub>10</sub>	1.67	7.29
BARK	Bark Handling System (4) 2.15		TSP	0.49

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		PM <sub>10</sub>	0.17	0.75
FINES	Excess Fuel System (4)	TSP		0.08
	0.34			
		PM <sub>10</sub>	0.03	0.12
TOH-1***	Thermal Oil Heater	TSP	0.16	0.68
	Bypass Stack	PM <sub>10</sub>	0.16	0.68
		VOC	0.07	0.31
		NO <sub>x</sub>	3.50	15.33
		SO <sub>2</sub>	0.02	0.07
		CO	0.88	3.83

(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) TSP - total suspended particulate including PM<sub>10</sub>

PM<sub>10</sub> - particulate matter less than 10 microns

VOC - volatile organic compounds as defined in General Rule 101.1

NO<sub>x</sub> - total oxides of nitrogen

SO<sub>2</sub> - sulfur dioxide

CO - carbon monoxide

HCHO - formaldehyde

MDI - methylene-diphenyl-diisocyanate

C<sub>6</sub>H<sub>5</sub>OH - phenol

C<sub>6</sub>H<sub>6</sub> - benzene

(4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.

\* 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 dryer throughput of 75 tons per hour and 382,836 tons per year of dried wafers for all five dryers; a total maximum press throughput of 64,000 ft<sup>2</sup> (3/8") per hour

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of waferboard; and a total maximum annual plant throughput of 410,000,000 square feet of 3/8 inches board processed.

\*\* The emission rates shown on the emission rates table for RTOEAST and RTOWEST are the maximum emissions from either of the RTOs but the combined emission rates for both RTOEAST and RTOWEST must not exceed the following:

<u>Pollutants</u>		<u>lb/hr</u>	<u>tpy</u>
TSP	16.65	42.50	
PM <sub>10</sub>	16.65	42.50	
VOC	38.29	97.72	
NO <sub>x</sub>	67.74	291.10	
SO <sub>2</sub>	1.36	5.64	
CO	156.28	228.16	
HCHO	0.35	0.47	

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

- a. A portion of the dryer and press exhaust qualifies as TSP, PM<sub>10</sub>, and VOC and is included in those totals.
- b. HCHO, phenol, MDI, and C<sub>6</sub>H<sub>6</sub> emissions are included in the total VOC emissions.

Dated\_\_\_\_\_