

# Emission Sources - Maximum Allowable Emission Rates

Permit Numbers 22377 and PSDTX832M5

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	
			lbs/hour	TPY (4)
RTOEAST and RTOWEST **	Dryer Regenerative Thermal Oxidizers	PM <sub>10</sub>	14.60	52.00
		VOC <sub>(i)</sub>	14.41	51.32
		NO <sub>x</sub>	55.32	197.02
		SO <sub>2</sub>	2.18	9.55
		CO	148.51	528.94
		HCHO	2.45	8.74
DRYER MSS***	Dryers 1-5 Bypass	PM	28.00	2.80
		PM <sub>10</sub>	20.00	2.00
		VOC <sub>(i)</sub>	40.50	4.05
		NO <sub>x</sub>	3.50	0.35
		CO	26.50	2.65
		HCHO	2.27	0.23
RTOPRESS/RCOPRESS	Press Regenerative Thermal Oxidizer and Regenerative Catalytic Oxidizer	PM <sub>10</sub>	4.24	15.31
		VOC <sub>(i)</sub>	8.46	30.56
		NO <sub>x</sub>	26.62	96.12
		SO <sub>2</sub>	0.01	0.04
		CO	53.28	192.40
		HCHO	1.73	6.24
		MDI	0.10	0.44
		C <sub>6</sub> H <sub>5</sub> OH	1.44	5.19

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PRESSVENT MSS	Press Bypass	PM	4.66	0.12
		PM <sub>10</sub>	2.33	0.06
		VOC <sub>(i)</sub>	29.77	0.74
		NO <sub>x</sub>	0.37	0.01
		SO <sub>2</sub>	0.33	0.01
		CO	0.90	0.02
		HCHO	0.68	0.02
		MDI	0.12	<0.01
		C <sub>6</sub> H <sub>5</sub> OH	0.34	0.01
S-1	Saw Line Collector	PM <sub>10</sub> #	1.34	5.89
		VOC <sub>(i)</sub>	3.35	12.45
S-1 MSS ##	Saw Line Bypass	PM <sub>10</sub> #	4.03	0.20
S-2	Aspiration System Baghouse	PM <sub>10</sub> #	0.62	2.71
		VOC <sub>(i)</sub>	15.37	57.08
		HCHO	0.43	1.60
		MDI	<0.01	0.02
		C <sub>6</sub> H <sub>5</sub> OH	0.01	0.02
		MeOH	7.07	26.25
S-3/4	Raw Fuel Bin Collector	PM <sub>10</sub> #	0.58	2.52
		VOC <sub>(i)</sub>	7.88	29.25
		HCHO	0.05	0.20
		MeOH	0.12	0.46
S-3/4 MSS##	Raw Fuel Bypass	PM <sub>10</sub> #	3.46	0.35
ABRTSTK	Bark Burner Abort Stack	PM <sub>10</sub>	8.00	1.27

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		VOC <sub>(i)</sub>	0.34	0.05
		NO <sub>x</sub>	9.80	1.22
		SO <sub>2</sub>	0.50	0.07
		CO	12.00	1.79
S-5	Material Reject Collector	PM <sub>10#</sub>	1.43	6.28
		VOC <sub>(i)</sub>	2.60	9.67
		HCHO	0.07	0.26
		MDI	<0.01	<0.01
		C <sub>6</sub> H <sub>5</sub> OH	<0.01	0.01
		MeOH	0.35	1.30
S-6	Tongue and Groove Sander Dust Collector	PM <sub>10#</sub>	1.12	4.93
		VOC <sub>(i)</sub>	1.51	5.62
S-7	Tongue and Groove Sander Transfer Bin Baghouse	PM <sub>10#</sub>	0.02	0.08
		VOC <sub>(i)</sub>	1.51	5.62
S-8	Finished Fuel Bin Collector	PM <sub>10#</sub>	0.71	3.10
		VOC <sub>(i)</sub>	5.87	21.81
		MeOH	0.11	0.42
S-9	Thermal Oil Heater Fuel System Collector	PM <sub>10#</sub>	0.39	1.69
		VOC <sub>(i)</sub>	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 (5)	PM <sub>10</sub>	0.04	0.17

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		VOC	0.40	1.76
F-2	Roadways (5)	PM	12.41	27.19
		PM <sub>10</sub>	2.42	5.30
F-3	Wet Deck (5)	PM	14.38	8.41
		PM <sub>10</sub>	4.47	2.62
BARK	Bark Handling System (5)	PM	0.54	1.18
		PM <sub>10</sub>	0.19	0.41
FINES	Excess Fuel System (5)	PM	0.06	0.13
		PM <sub>10</sub>	0.02	0.04
TOH-1****	Thermal Oil Heater Bypass Stack	PM <sub>10</sub>	0.24	1.04
		VOC <sub>(i)</sub>	0.17	0.76
		NO <sub>x</sub>	3.14	13.74
		SO <sub>2</sub>	0.02	0.08
		CO	2.64	11.54
GEN-1	Emergency Generator	PM <sub>10</sub>	4.50	0.34
		VOC	0.15	0.01
		NO <sub>x</sub>	11.84	0.89
		SO <sub>2</sub>	3.24	0.24
		CO	5.42	0.41
FWP-1	Fire Water Pump	PM <sub>10</sub>	1.58	0.08
		VOC	0.18	0.01
		NO <sub>x</sub>	4.54	0.23
		SO <sub>2</sub>	1.18	0.06
		CO	4.54	0.23
PB-1	Paint Booth	PM <sub>10</sub>	0.68	1.49
		VOC	1.54	3.37
PB-2	Tongue and Groove Paint Booth	PM <sub>10</sub>	0.65	1.42

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		VOC	1.46	3.19
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(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<sub>x</sub> - total oxides of nitrogen

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

PM - total particulate matter, suspended in the atmosphere, including PM<sub>10</sub> and PM<sub>2.5</sub>, as represented

PM<sub>10</sub> - total particulate matter equal to or less than 10 microns in diameter, including PM<sub>2.5</sub>, as represented

PM<sub>2.5</sub> - particulate matter equal to or less than 2.5 microns in diameter

CO - carbon monoxide

HCHO - formaldehyde

MDI - methylene-diphenyl-diisocyanate

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

MeOH - methanol

(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.

\*\* 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 and S-3/4 during emergency shutdown.

### VOC includes benzene.

i VOCs are quantified as propane.

Date: January 12, 2012