

## EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 31266

This table lists the maximum allowable emission rates. The total emissions of air contaminants from any of the sources covered by this permit shall not exceed the values stated. 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 sources.

## AIR CONTAMINANTS DATA

Emission *	Source	Air Contaminant	<u>Emission Rates</u>	
Point No. (1)	Name (2)	Name (3)	<u>lb/hr</u>	<u>TPY</u>
23300	Boiler (Natural Gas)	SO <sub>2</sub>	0.012	0.053
		NO <sub>x</sub>	2.88	12.65
		CO	0.72	3.16
		VOC	0.057	0.25
		PM	0.282	1.24
	Boiler (Fuel Oil)	SO <sub>2</sub>	7.67	1.29
		NO <sub>x</sub>	3.6	0.6
		CO	0.9	0.15
		VOC	0.036	0.006
		PM	0.36	0.06
23400	Boiler (Natural Gas)	SO <sub>2</sub>	0.012	0.053
		NO <sub>x</sub>	2.88	12.65
		CO	0.72	3.16
		VOC	0.057	0.25
		PM	0.282	1.24
	Boiler (Fuel Oil)	SO <sub>2</sub>	7.67	1.29
		NO <sub>x</sub>	3.6	0.6
		CO	0.9	0.15
		VOC	0.036	0.006
		PM	0.36	0.06
23500	Boiler (Natural Gas)	SO <sub>2</sub>	0.012	0.053
		NO <sub>x</sub>	2.88	12.65
		CO	0.72	3.16
		VOC	0.057	0.25
		PM	0.282	1.24

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Emission *	Source	Air Contaminant	<u>Emission Rates</u>	
Point No. (1)	Name (2)	Name (3)	<u>lb/hr</u>	<u>TPY</u>
	Boiler (Fuel Oil)	SO <sub>2</sub>	7.67	1.29
		NO <sub>x</sub>	3.6	0.6
		CO	0.9	0.15
		VOC	0.036	0.006
		PM	0.36	0.06
23600	Sander Dust Boiler (Natural Gas)	SO <sub>2</sub>	0.012	0.053
		NO <sub>x</sub>	2.88	12.65
		CO	0.72	3.16
		VOC	0.62	2.72
		PM	0.282	1.24
	Sander Dust Boiler (Fuel Oil)	SO <sub>2</sub>	4.86	0.816
		NO <sub>x</sub>	2.28	0.38
		CO	0.57	0.096
		VOC	0.586	2.48
		PM	0.228	0.038
23601	Dust Silo-Roots Blower	PM	0.15	0.66
23700	Fume Incinerator Waste Heat Boiler (Natural Gas)	SO <sub>2</sub>	0.012	0.053
12.65		NO <sub>x</sub>		2.88
		CO	0.72	3.16
		VOC	0.71	2.72
		PM	0.282	1.24
	Fume Incinerator Waste Heat Boiler (Fuel Oil)	SO <sub>2</sub>	7.7	1.3
		NO <sub>x</sub>	3.6	0.6
		CO	0.9	0.15
		VOC	0.69	2.47
		PM	0.36	0.06
23800	Dust Incinerator No. 2 (Natural Gas)	SO <sub>2</sub>	0.012	0.004
		NO <sub>x</sub>	2.88	0.83
		CO	0.72	0.2
		VOC	0.33	0.1

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Emission * Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lb/hr	TPY
		PM	0.29	0.08
	Dust Incinerator No. 2 (Fuel Oil)	SO <sub>2</sub>	4.7	1.35
		NO <sub>x</sub>	2.2	0.63
		CO	0.55	0.16
		VOC	0.29	0.09
		PM	0.22	0.06
D-1	Diesel Tank	Diesel	0.01	0.02
P-9	Phenolic Resin Tank P-9 UST 0.06		VOC	0.02
P-10	Phenolic Resin Tank P-9 UST 0.09		VOC	0.02
AL-2	Isopropyl Alcohol Tank UST 0.01		VOC	0.01
G-6	Gasoline Tank UST	Gasoline	0.04	0.15
D-9	Diesel Tank UST	Diesel	0.01	0.01
D-10	Diesel Tank AST	Diesel	0.01	0.01
M-1, M-2, M-3, M-4	Four Melamine Tanks (4)	VOC	0.003	0.014
Stack 1A	Melamine Treaters No. 3 and No. 4	VOC	1.71	6.73
03001	Melamine General Exhaust	VOC	0.06	0.25
08100	Dust Collector	PM	1.17	5.14

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Emission * Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lb/hr	TPY
		VOC	0.113	0.494
08200	Dust Collector	PM	1.17	5.14
		VOC	0.113	0.494
08300	Dust Collector	PM	1.17	5.14
		VOC	0.113	0.494
04001	Phenolic Treater No. 4 Dry End	VOC	0.93	4.11
04002	Phenolic Treater No. 1 and No. 2 Dry End	VOC	1.15	5.05
04101	Phenolic Treater No. 1 Dip Pan	VOC	2.28	10.02
04201	Phenolic Treater No. 2 Dip Pan	VOC	2.64	11.59
04401	Phenolic Treater No. 4 Dip Pan	VOC	2.06	9.03
04003	Phenolic Penthouse	VOC	0.93	4.08
04004	Phenolic Penthouse	VOC	0.93	4.08
07201	Press No. 2	VOC	0.99	4.35
07301	Press No. 3	VOC	0.423	1.86
07401	Press No. 4	VOC	0.513	1.903
07501	Press No. 5	VOC	0.432	1.903

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Emission * Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lb/hr	TPY
07601	Press No. 6	VOC	0.209	0.7
07602	Press No. 6	VOC	0.209	0.7
07603	Press No. 6	VOC	0.209	0.7
07604	Press No. 6	VOC	0.209	0.7
07605	Press No. 6	VOC	0.209	0.7
07701	Press No. 7	VOC	0.436	1.923
05001	Chemsurf Room	VOC	0.57	2.5
06002	Corestock	VOC	0.753	3.31
06003	Corestock	VOC	0.34	1.49
06004	Corestock	VOC	0.06	0.263
PPUMPFUG	Phenolic Pump Room Fugitives	VOC	0.06	0.26
MPUMPFUG	Melamine Pump Area Fugitives	VOC	0.002	0.01
09000	Plantwide	Lactic Acid	1.08	4.74

(1) Emission point identification - 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 General Rule 101.1

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<u>Point No. (1)</u>	<u>Name (2)</u>	<u>Name (3)</u>	<u>lb/hr</u>	<u>TPY</u>

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

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

PM - particulate matter

CO - carbon monoxide

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

24 Hrs/day 7 Days/week 52 Weeks/year

Date\_\_\_\_\_