

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 5261

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.

PHASE 1 - AIR CONTAMINANTS

DATA

Emission * Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lb/hr	TPY
0-03	Waste Solvent Tank	VOC	<0.01	0.01
		Non-VOC	<0.01	<0.01
0-05	Technical Building Diesel Tank	VOC	<0.01	<0.01
0-06	Site Diesel Tank	VOC	<0.01	0.02
0-07	Site Gasoline Tank	VOC	0.02	0.09
0-09	West Building Hydrochloric 0.01 Tank	Acid		<0.01
1-03, 1-05, 1-11, 1-14, 1-15, 1-17, and 1-21	East Building General Exhaust Stacks	VOC	3.84	16.82
		Non-VOC	0.20	0.88
1-09, 1-12, 1-13, 1-16, 1-18, and 1-19	East Building Scrubbed Exhaust	Acid	1.40	6.11
		Inorganic Gas	0.10	0.44
		VOC	0.23	1.00
		Non-VOC	0.71	3.10
		PM	0.27	1.15
		NO _x	1.17	5.08
1-31	East Building Boiler	PM	0.02	0.05

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY
		VOC	0.02	0.06
		SO ₂	<0.01	0.01
		NO _x	0.23	0.99
		CO	0.05	0.20
1-32	East Building Boiler	PM	0.02	0.05
		VOC	0.02	0.06
		SO ₂	<0.01	0.01
		NO _x	0.23	1.00
		CO	0.05	0.20
1-51	East Building Thermal Oxidizer 0.12		PM	0.03
	Combustion Emissions	VOC	0.02	0.07
		SO ₂	<0.01	0.02
		NO _x	0.75	3.26
		CO	0.19	0.82
1-51	East Building Thermal Oxidizer Stack	VOC	4.69	20.53
		Non-VOC	0.14	0.59
1-51A	East Building Thermal Oxidizer Bypass Stack	VOC	47.43	7.97
		Non-VOC	1.36	0.23
2-01 and 2-02	North Addition General Exhaust	VOC	1.97	8.61
		Non-VOC	4.52	19.77
3-04	South Building Chemical Finish Exhaust	Acid	0.21	0.92
		PM	0.01	0.05
3-06	South Building High Volume Coating Cure Oven 0.04	PM	0.01	0.03
		VOC		0.01
		SO ₂	<0.01	<0.01
		NO _x	0.14	0.60
		CO	0.03	0.12

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY
3-13	South Building Boiler	PM	0.01	0.03
		VOC	0.01	0.03
		SO ₂	<0.01	<0.01
		NO _x	0.13	0.56
		CO	0.03	0.12
3-15	South Building Heater	PM	0.01	0.04
		VOC	0.01	0.04
		SO ₂	<0.01	<0.01
		NO _x	0.16	0.69
		CO	0.04	0.14
3-16	South Building Heater	PM	0.01	0.03
		VOC	0.01	0.03
		SO ₂	<0.01	<0.01
		NO _x	0.12	0.52
		CO	0.03	0.11
3-17	South Building Heater	PM	0.01	0.03
		VOC	0.01	0.03
		SO ₂	<0.01	<0.01
		NO _x	0.13	0.54
		CO	0.03	0.11
3-18	South Building Heater	PM	0.02	0.05
		VOC	0.02	0.05
		SO ₂	<0.01	0.01
		NO _x	0.22	0.95
		CO	0.05	0.19
3-19A, 3-19B, 3-19C, and 3-19D	South Building Coating Cure Ovens	PM	0.02	0.07
		VOC	0.02	0.07
		SO ₂	<0.01	0.01
		NO _x	0.30	1.28

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			<u>lb/hr</u>	<u>TPY</u>
		CO	0.06	0.26
3-28	South Building High Temperature Oven	PM	<0.01	0.01
		VOC	<0.01	0.01
		SO ₂	<0.01	<0.01
		NO _x	0.03	0.14
		CO	0.01	0.03
6-01	Technical Building Boron Tribromide Exhaust 0.27	Acid	0.03	0.12
		Inorganic Gas		0.06
		VOC	0.05	0.19
		Non-VOC	0.02	0.08
6-02A and 6-02B	Technical Building TI-Kote Exhausts	PM	0.23	1.00
		Acid	0.15	0.65
		Inorganic Gas	0.05	0.19

PHASE 2 - AIR CONTAMINANTS DATA

Emission * Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates</u>	
			<u>lb/hr</u>	<u>TPY</u>
0-03	Waste Solvent Tank	VOC	<0.01	0.01
		Non-VOC	<0.01	<0.01
0-05	Technical Building Diesel Tank	VOC	<0.01	<0.01
0-06	Site Diesel Tank	VOC	<0.01	0.02
0-07	Site Gasoline Tank	VOC	0.02	0.09

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY
0-09	West Building Hydrochloric Tank	Acid	<0.01	0.01
1-03, 1-05, 1-11, 1-14, 1-15, 1-17, and 1-21	East Building General Exhaust Stacks	VOC	3.84	16.82
		Non-VOC	0.20	0.88
1-19	Acid Scrubbed Exhaust Stack	Acid	1.40	6.11
		Inorganic Gas	0.10	0.44
		VOC	0.23	1.00
		Non-VOC	0.71	3.10
		PM	0.27	1.15
		NO _x	1.17	5.08
1-31	East Building Boiler	PM	0.02	0.05
		VOC	0.02	0.06
		SO ₂	<0.01	0.01
		NO _x	0.23	0.99
		CO	0.05	0.20
1-32	East Building Boiler	PM	0.02	0.05
		VOC	0.02	0.06
		SO ₂	<0.01	0.01
		NO _x	0.23	1.00
		CO	0.05	0.20
1-51	East Building Thermal Oxidizer	PM		0.03
	0.12			
	Combustion Emissions	VOC	0.02	0.07
		SO ₂	<0.01	0.02

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY
		NO _x	0.75	3.26
		CO	0.19	0.82
1-51	East Building Thermal Oxidizer Stack	VOC	4.69	20.53
		Non-VOC	0.14	0.59
1-51A	East Building Thermal Oxidizer Bypass Stack	VOC	47.43	7.97
		Non-VOC	1.36	0.23
2-01 and 2-02	North Addition General Exhaust	VOC	1.97	8.61
		Non-VOC	4.52	19.77
3-04	South Building Chemical Finish Exhaust	Acid	0.21	0.92
		PM	0.01	0.05
3-06	South Building High Volume Coating Cure Oven	PM	0.01	0.03
	0.04	VOC		0.01
		SO ₂	<0.01	<0.01
		NO _x	0.14	0.60
		CO	0.03	0.12
3-13	South Building Boiler	PM	0.01	0.03
		VOC	0.01	0.03
		SO ₂	<0.01	<0.01
		NO _x	0.13	0.56
		CO	0.03	0.12
3-15	South Building Heater	PM	0.01	0.04
		VOC	0.01	0.04
		SO ₂	<0.01	<0.01
		NO _x	0.16	0.69
		CO	0.04	0.14
3-16	South Building Heater	PM	0.01	0.03

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY
		VOC	0.01	0.03
		SO ₂	<0.01	<0.01
		NO _x	0.12	0.52
		CO	0.03	0.11
3-17	South Building Heater	PM	0.01	0.03
		VOC	0.01	0.03
		SO ₂	<0.01	<0.01
		NO _x	0.13	0.54
		CO	0.03	0.11
3-18	South Building Heater	PM	0.02	0.05
		VOC	0.02	0.05
		SO ₂	<0.01	0.01
		NO _x	0.22	0.95
		CO	0.05	0.19
3-19A, 3-19B, 3-19C, and 3-19D	South Building Coating Cure Ovens	PM	0.02	0.07
		VOC	0.02	0.07
		SO ₂	<0.01	0.01
		NO _x	0.30	1.28
		CO	0.06	0.26
3-28	South Building High Temperature Oven	PM	<0.01	0.01
		VOC	<0.01	0.01
		SO ₂	<0.01	<0.01
		NO _x	0.03	0.14
		CO	0.01	0.03
6-01	Technical Building Boron Tribromide Exhaust 0.27	Acid Inorganic Gas	0.03	0.12 0.06
		VOC	0.05	0.19
		Non-VOC	0.02	0.08

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			lb/hr	TPY
6-02A and 6-02B	Technical Building TI-KOTE Exhausts	PM	0.23	1.00
		Acid	0.15	0.65
		Inorganic Gas	0.05	0.19

PHASE 3 - AIR

CONTAMINANTS DATA

Emission * Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates</u>	
			lb/hr	TPY
0-03	Waste Solvent Tank	VOC	<0.01	0.01
		Non-VOC	<0.01	<0.01
0-05	Technical Building Diesel Tank	VOC	<0.01	<0.01
0-06	Site Diesel Tank	VOC	<0.01	0.02
0-07	Site Gasoline Tank	VOC	0.02	0.09
0-09	West Building Hydrochloric 0.01 Tank	Acid		<0.01
1-03, 1-05, 1-11, 1-14, 1-15, 1-17, and 1-21	East Building General Exhaust Stacks	VOC	3.84	16.82
		Non-VOC	0.20	0.88
1-19	Acid Scrubbed Exhaust Stack 6.11	Acid		1.40

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY
		Inorganic Gas	0.10	0.44
		VOC	0.23	1.00
		Non-VOC	0.71	3.10
		PM	0.27	1.15
		NO _x	1.17	5.08
1-20	Caustic Scrubbed Exhaust Stack 3.28		Caustic	0.75
1-31	East Building Boiler	PM	0.02	0.05
		VOC	0.02	0.06
		SO ₂	<0.01	0.01
		NO _x	0.23	0.99
		CO	0.05	0.20
1-32	East Building Boiler	PM	0.02	0.05
		VOC	0.02	0.06
		SO ₂	<0.01	0.01
		NO _x	0.23	1.00
		CO	0.05	0.20
1-51	East Building Thermal Oxidizer 0.12		PM	0.03
	Combustion Emissions	VOC	0.02	0.07
		SO ₂	<0.01	0.02
		NO _x	0.75	3.26
		CO	0.19	0.82
1-51	East Building Thermal Oxidizer Stack	VOC	4.69	20.53
		Non-VOC	0.14	0.59
1-51A	East Building Thermal Oxidizer Bypass Stack	VOC	47.43	7.97
		Non-VOC	1.36	0.23
2-01 and 2-02	North Addition General Exhaust	VOC	1.97	8.61
		Non-VOC	4.52	19.77

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY
3-04	South Building Chemical Finish Exhaust	Acid	0.21	0.92
		PM	0.01	0.05
3-06	South Building High Volume Coating Cure Oven 0.04	PM	0.01	0.03
		VOC		0.01
		SO ₂	<0.01	<0.01
		NO _x	0.14	0.60
		CO	0.03	0.12
3-13	South Building Boiler	PM	0.01	0.03
		VOC	0.01	0.03
		SO ₂	<0.01	<0.01
		NO _x	0.13	0.56
		CO	0.03	0.12
3-15	South Building Heater	PM	0.01	0.04
		VOC	0.01	0.04
		SO ₂	<0.01	<0.01
		NO _x	0.16	0.69
		CO	0.04	0.14
3-16	South Building Heater	PM	0.01	0.03
		VOC	0.01	0.03
		SO ₂	<0.01	<0.01
		NO _x	0.12	0.52
		CO	0.03	0.11
3-17	South Building Heater	PM	0.01	0.03
		VOC	0.01	0.03
		SO ₂	<0.01	<0.01
		NO _x	0.13	0.54
		CO	0.03	0.11

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY
3-18	South Building Heater	PM	0.02	0.05
		VOC	0.02	0.05
		SO ₂	<0.01	0.01
		NO _x	0.22	0.95
		CO	0.05	0.19
3-19A, 3-19B, 3-19C, and 3-19D	South Building Coating Cure Ovens	PM	0.02	0.07
		VOC	0.02	0.07
		SO ₂	<0.01	0.01
		NO _x	0.30	1.28
		CO	0.06	0.26
3-28	South Building High Temperature Oven	PM	<0.01	0.01
		VOC	<0.01	0.01
		SO ₂	<0.01	<0.01
		NO _x	0.03	0.14
		CO	0.01	0.03
6-01	Technical Building Boron Tribromide Exhaust 0.27	Acid	0.03	0.12
		Inorganic Gas		0.06
		VOC	0.05	0.19
		Non-VOC	0.02	0.08
6-02A and 6-02B	Technical Building TI-KOTE Exhausts	PM	0.23	1.00
		Acid	0.15	0.65
		Inorganic Gas	0.05	0.19

PHASE 4 (Must be completed by December 31, 1997) - AIR
CONTAMINANTS DATA

0-03	Waste Solvent Tank	VOC	<0.01	0.01
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EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY
		Non-VOC	<0.01	<0.01
0-05	Technical Building Diesel Tank	VOC	<0.01	<0.01
0-06	Site Diesel Tank	VOC	<0.01	0.02
0-07	Site Gasoline Tank	VOC	0.02	0.09
0-09	West Building Hydrochloric 0.01 Tank	Acid		<0.01
1-19	Acid Scrubbed Exhaust Stack 6.11	Acid		1.40
		Inorganic Gas	0.10	0.44
		VOC	0.23	1.00
		Non-VOC	0.71	3.10
		PM	0.27	1.15
		NO _x	1.17	5.08
1-20	Caustic Scrubbed Exhaust Stack 3.28	Caustic		0.75
1-21	East Building General Exhaust Stack	VOC	3.84	16.82
		Non-VOC	0.20	0.88
1-31	East Building Boiler	PM	0.02	0.05
		VOC	0.02	0.06
		SO ₂	<0.01	0.01
		NO _x	0.23	0.99
		CO	0.05	0.20

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY
1-32	East Building Boiler	PM	0.02	0.05
		VOC	0.02	0.06
		SO ₂	<0.01	0.01
		NO _x	0.23	1.00
		CO	0.05	0.20
1-51	East Building Thermal Oxidizer 0.12		PM	0.03
	Combustion Emissions	VOC	0.02	0.07
		SO ₂	<0.01	0.02
		NO _x	0.75	3.26
		CO	0.19	0.82
1-51	East Building Thermal Oxidizer 0.12		PM	0.03
	Combustion Emissions	VOC	0.02	0.07
		SO ₂	<0.01	0.02
		NO _x	0.75	3.26
		CO	0.19	0.82
1-51	East Building Thermal Oxidizer Stack	VOC	4.69	20.53
		Non-VOC	0.14	0.59
1-51A	East Building Thermal Oxidizer Bypass Stack	VOC	47.43	7.97
		Non-VOC	1.36	0.23
2-01 and 2-02	North Addition General Exhaust	VOC	1.97	8.61
		Non-VOC	4.52	19.77
3-04	South Building Chemical Finish Exhaust	Acid	0.21	0.92
		PM	0.01	0.05
3-06	South Building High Volume Coating Cure Oven 0.04	PM	0.01	0.03
		VOC		0.01

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY
		SO ₂	<0.01	<0.01
		NO _x	0.14	0.60
		CO	0.03	0.12
3-13	South Building Boiler	PM	0.01	0.03
		VOC	0.01	0.03
		SO ₂	<0.01	<0.01
		NO _x	0.13	0.56
		CO	0.03	0.12
3-15	South Building Heater	PM	0.01	0.04
		VOC	0.01	0.04
		SO ₂	<0.01	<0.01
		NO _x	0.16	0.69
		CO	0.04	0.14
3-16	South Building Heater	PM	0.01	0.03
		VOC	0.01	0.03
		SO ₂	<0.01	<0.01
		NO _x	0.12	0.52
		CO	0.03	0.11
3-17	South Building Heater	PM	0.01	0.03
		VOC	0.01	0.03
		SO ₂	<0.01	<0.01
		NO _x	0.13	0.54
		CO	0.03	0.11
3-18	South Building Heater	PM	0.02	0.05
		VOC	0.02	0.05
		SO ₂	<0.01	0.01
		NO _x	0.22	0.95
		CO	0.05	0.19
3-19A, 3-19B,	South Building Coating	PM	0.02	0.07

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY
3-19C, and 3-19D	Cure Ovens	VOC	0.02	0.07
		SO ₂	<0.01	0.01
		NO _x	0.30	1.28
		CO	0.06	0.26
3-28	South Building High Temperature Oven	PM	<0.01	0.01
		VOC	<0.01	0.01
		SO ₂	<0.01	<0.01
		NO _x	0.03	0.14
		CO	0.01	0.03
6-01	Technical Building Boron Tribromide Exhaust 0.27	Acid	0.03	0.12
		Inorganic Gas		0.06
		VOC	0.05	0.19
		Non-VOC	0.02	0.08
6-02A and 6-02B	Technical Building TI-KOTE Exhausts	PM	0.23	1.00
		Acid	0.15	0.65
		Inorganic Gas	0.05	0.19

(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
VOC - volatile organic compounds as defined in General Rule 101.1
Non-VOC - non-volatile organic compounds
NO_x - total oxides of nitrogen
SO₂ - sulfur dioxide
CO - carbon monoxide

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

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			<u>lb/hr</u>	<u>TPY</u>

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

Dated_____