

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 1967B

This table lists the maximum allowable emission rates for the sources of air contaminants covered by this permit.

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates</u>	
			lb/hr	TPY
2A	Dust Collector	PM	<0.01	<0.04
3	L-Dia. Elbow Oven	VOC	<0.01	<0.04
		PM	<0.01	<0.01
5	S-Dia. Pipe Machine (P5)	VOC	<0.01	<0.04
		PM	<0.01	<0.01
5A	S-Dia. Pipe Machine (P5)	VOC	0.03	0.13
		PM	0.02	0.08
		POC	0.16	<0.10
5B	S-Dia. Fitting Bond Oven	VOC	<0.01	<0.01
		PM	<0.01	<0.01
6	S-Dia. Pipe Machine (P6)	VOC	0.03	0.13
		PM	<0.01	0.02
		Acid	<0.01	<0.01
6A	S-Dia. Pipe Machine (P6)	VOC	0.07	0.27
		PM	0.02	0.08
		Acid	<0.01	<0.01
7	S-Dia. Pipe Machine (P7)	VOC	0.03	0.13
		PM	<0.01	0.02
		Acid	<0.01	<0.01
7A	S-Dia. Pipe Machine (P7)	VOC	0.07	0.27
		PM	0.02	0.08
		Acid	<0.01	<0.01
7B	Prepreg Process	Acetone	5.60	25.00
		CH ₂ CL ₂	12.30	54.00

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			lb/hr	TPY
8	S-Dia. Pipe Machine (P8)	VOC	0.03	0.13
		PM	<0.01	0.02
		Acid	<0.01	<0.01
8A	S-Dia. Pipe Machine (P8)	VOC	0.07	0.27
		PM	0.02	0.02
		Acid	<0.01	<0.01
9	S-Dia. Pipe Machine (P9)	VOC	0.03	0.14
		PM	0.03	0.09
		Acid	<0.01	<0.01
9A	S-Dia. Pipe Machine (P9)	VOC	0.06	0.26
		PM	0.02	0.07
		Acid	<0.01	<0.01
10	Pipe Machine (P10)	VOC	0.03	0.14
		PM	0.03	0.09
		Acid	<0.01	<0.01
10A	Pipe Machine (P10)	VOC	0.06	0.26
		PM	0.02	0.07
		Acid	<0.01	<0.01
11	Pipe Machine (P11)	VOC	0.03	0.14
		PM	0.03	0.09
		Acid	<0.01	<0.01
11A	Pipe Machine (P11)	VOC	0.06	0.26
		PM	0.02	0.07
		Acid	<0.01	<0.01
21	L-Dia. Pipe Machine (P21)	Acetone	0.17	0.72
		CH ₂ CL ₂	0.36	1.58

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lb/hr	TPY
21A	L-Dia. Pipe Machine (P21)	VOC	0.03	0.1
		PM	0.12	0.53
		Acid	<0.01	<0.01
21B	L-Dia. Pipe Machine (P21)	VOC	0.05	0.18
		PM	0.12	0.53
		Acid	<0.01	<0.01
21C	L-Dia. Pipe Machine (P21)	POC	<0.01	0.03
21D	L-Dia. Pipe Machine (P21)	VOC	0.01	0.04
		PM	0.01	0.04
		Acid	<0.01	<0.01
21E	L-Dia. Pipe Machine (P21)	VOC	0.01	0.04
		PM	0.01	0.04
		Acid	<0.01	<0.01
22	L-Dia. Pipe Machine (P22)	Acetone	0.17	0.72
		CH ₂ CL ₂	0.36	1.58
22A	L-Dia. Pipe Machine (P22)	VOC	0.03	0.1
		PM	0.12	0.53
		Acid	<0.01	<0.01
22B	L-Dia. Pipe Machine (P22)	VOC	0.05	0.18
		PM	0.12	0.53
		Acid	<0.01	<0.01
22C	L-Dia. Pipe Machine (P22)	POC	<0.01	0.03
22D	L-Dia. Pipe Machine (P22)	VOC	0.01	0.04
		PM	0.01	0.04
		Acid	<0.01	<0.01

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lb/hr	TPY
22E	L-Dia. Pipe Machine (P22)	VOC	0.01	0.04
		PM	0.01	0.04
		Acid	<0.01	<0.01
21F	L-Dia. Pipe Machine (P21)	POC	<0.01	0.03
22H	Dust Collector	PM	0.05	0.07
31A	S-Dia. Pipe Finishing	VOC	0.035	0.15
		PM	<0.01	<0.01
31B	Baghouse	PM	0.02	0.08
32C	Baghouse	PM	<0.01	0.04
34A	P34 Winder	VOC	0.09	0.4
		PM	0.1	0.4
		Acid	<0.01	<0.01
35A	P3 L-Dia. Casting	VOC	0.02	0.07
		PM	<0.01	0.01
		Acid	<0.01	<0.01
35B	L-Dia. Casting	VOC	<0.01	0.03
36A	S-Dia. Casting	VOC	0.07	0.30
		PM	0.04	0.16
37B	Baghouse	PM	0.04	0.17
41A	Walk-in Oven	VOC	<0.01	<0.01
45A	Specialty Fabrication	VOC	<0.01	0.04
		PM	<0.01	<0.01
45B	Baghouse	PM	<0.01	0.01

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lb/hr	TPY
45C	Dust Collector	PM	<0.01	<0.01
45D	Hand Layup (Fugitive)	VOC	0.07	0.05
		PM	<0.01	<0.01
45E	L-Dia. Pipe Machine (P21)	VOC	0.02	0.03
		PM	<0.01	<0.01
45F	Cure Oven	VOC	<0.01	<0.01
		PM	<0.01	<0.01
43A	P43 Black Epoxy Fitting and Baghouse	VOC	0.05	0.20
		PM	<0.02	0.06
		Acid	<0.01	<0.01
60A	Fittings Cure Oven	VOC	<0.01	<0.01
		PM	<0.01	<0.01
60B	Gel Oven	VOC	<0.01	0.04
		PM	<0.01	<0.01
71A	L/D Winder	VOC	0.053	0.23
		PM	<0.001	<0.01
71B	L/D Cure Oven	VOC	0.053	0.23
		PM	<0.001	<0.01
2/71C	Fittings Oven and L/D Heater	VOC	0.01	0.05
		Acid	<0.01	<0.01
		PM	0.001	0.01
		NO _x	0.02	0.07
		SO ₂	<0.01	0.01
		CO	0.01	0.03
71D	L/D Cure Oven	VOC	0.072	0.32
		Acid	<0.001	<0.01

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lb/hr	TPY
		PM	0.053	0.23
		NO _x	0.35	1.53
		SO ₂	0.003	0.01
		CO	0.3	1.29
72A	Post-Cure Oven No. 1	VOC	0.27	1.17
		Acid	<0.01	0.01
72B	Post-Cure Oven No. 2	VOC	0.27	1.17
		Acid	<0.01	0.01
72C	Post-Cure Oven No. 1	NO _x	0.08	0.33
		SO ₂	<0.01	<0.01
		CO	0.07	0.28
		VOC	0.01	0.04
		PM	0.01	0.03
72D	Post-Cure Oven No. 2	NO _x	0.08	0.33
		SO ₂	<0.01	<0.01
		CO	0.07	0.28
		VOC	0.01	0.04
		PM	0.01	0.03
100A	Boiler	POC	0.03	0.13
100B	Boiler	POC	0.02	0.06
200A	Hot Water Heater	POC	0.04	0.03
200B	Hot Water Heater	POC	<0.01	0.03
200C	Hot Water Heater	POC	<0.01	0.03
P40	Fire Retardant Coating Line	VOC	0.35	1.54
<u>PHASE 1 (4)</u>				
70G	Winding Machine	VOC	2.68	1.42

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lb/hr	TPY
70H	Liner Machine	VOC	10.62	5.61
<u>PHASE 2 (4)</u>				
70G/H	Winding/Liner Machines	VOC (Mfg)	0.65	3.24
		NO _x	0.66	2.88
		SO ₂	0.01	0.02
		CO	0.55	2.42
		VOC (Combustion)	0.04	0.16
		PM	0.05	0.22

(1) Emission point identification - emission point number from plot plan.

(2) Specific point source name.

(3) PM - particulate matter, suspended in the atmosphere, including PM₁₀ (may include overspray from surface coating).

PM₁₀ - particulate matter equal to or less than 10 microns in diameter (may include overspray from surface coating).

VOC - volatile organic compounds as defined in 30 Texas Administrative Code Section 101.1

POC - products of combustion: NO_x, SO₂, PM, CO, and VOC

SO₂ - sulfur dioxide

CO - carbon monoxide

NO_x - nitrogen oxides

CH₂CL₂ - dichloromethane

(4) Phase 1 is the time period prior to operation of the thermal oxidizer which will control emissions from the winding and liner machines. During Phase 1, emissions may be released directly to the atmosphere. Phase 2 is the time period which begins after construction and initial operation of the thermal oxidizer. The total annual VOC emissions from Phase 1 and 2 combined shall not exceed 10 tons per year. The rolling annual emission rate beginning in Phase 2 shall not exceed 3.24 tons per year of VOCs.

Dated November 30, 2000