

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 20162

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 Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates*</u>	
			lbs/hr	TPY
E-AN-A1,2	Scrubber Stacks	Acids	1.43	6.26
E-AS-A1,2		Halocarbons	0.02	0.11
E-AS-E1		Hydrides	1.91	8.37
		Inorganics	0.06	0.24
		VOC		2.32
	9.74			
E-AS-H2	Heat Stack	VOC		0.69
	0.10			
E-AS-S1	Rotor Concentrator/	VOC		5.01
	21.86			
	Thermal Oxidizer Stack	CO	4.50	19.71
		NO _x	0.60	2.63
E-BR-1,	Scrubber Stack	Acids	0.22	0.91
E-BR-2,	Solvent Stack	Halocarbons	<0.01	0.01
E-BR-3,4,6,	Lab Vents	Hydrides	0.20	0.87
E-BR-5	Burn Box Vent	Inorganics	<0.01	0.03
		VOC		0.10
	0.44			
E-CR-1,2,3	Boiler Stacks (4)	PM	0.90	1.38
		SO ₂	6.45	0.51
		CO	2.24	9.63
		NO _x	8.96	38.51
		VOC		0.18
	0.77			
E-CR-4,5	Emergency Generators (5)	PM	1.23	0.29
		SO ₂	1.15	0.27
		CO	3.73	0.88

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			lbs/hr	TPY
			NO _x	17.25
			VOC	4.06
	0.39			1.64
E-CR-6, E-CR-7	Lab Vent		Acids	0.01
	DI System		Inorganics	0.06
	Scrubber Stack		VOC	0.14
	<0.01			<0.01
E-CR-8	Gas Compressor		SO ₂	<0.01
			CO	0.02
			NO _x	2.70
			VOC	11.83
	2.63			8.50
				0.60
E-ER-1,2,3,4	Test Floor		Acids	0.02
			HCFC	0.02
			Hydrides	0.01
			Inorganics	0.02
			VOC	0.05
				0.28
E-ER-5	Boiler Stack (6)		PM	0.18
			SO ₂	1.30
			CO	0.1
			NO _x	1.93
			VOC	7.70
	0.29			0.067
E-FR-1,2	Test Floor/Labs		Acids	0.01
			HCFC	0.01
			Inorganics	<0.01
			VOC	<0.01
	0.08			0.02
E-HR-1, E-HR-2, E-HR-3,	Exhaust Stack		Acids	<0.01
	Paint Booth		Inorganics	<0.01
	Exhaust Stack		VOC	4.28
	0.88			

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			lbs/hr	TPY
		PM	<0.01	<0.01
E-JR-1, E-JR-2	Boiler Stacks (6)	PM	0.18	0.28
		SO ₂	1.30	0.10
		CO	0.45	1.93
		NO _x	1.80	7.70
		VOC		0.07
	0.29			
E-JR-3, E-JR-4	Exhaust Stack	Acids	0.02	0.08
	Scrubber Stack	HCFC	0.07	0.31
		VOC		0.16
	0.69			
E-WR-1	Packaging Foam	VOC		<0.01
	<0.01			
		PM	<0.01	<0.01
E-SR-1, E-SR-2	Scrubber Stack	Acids	<0.01	<0.01
	Burn Box Vent	HCFC	<0.01	<0.01
		Hydrides	<0.01	0.01
		Inorganics	<0.01	<0.01
E-ST-1	Diesel Tank	VOC		0.13
	<0.01			
E-ST-2	Fire Pump	PM	0.10	<0.01
		SO ₂	0.10	<0.01
		CO	0.31	<0.01
		NO _x	1.44	<0.01
		VOC		0.14
	<0.01			
E-ST-3	Diesel Tank	VOC		0.13
	<0.01			
E-ST-4	Emergency Generator	PM	0.21	0.05

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			lbs/hr	TPY
		SO ₂	0.20	0.05
		CO	0.65	0.15
		NO _x	3.00	0.71
		VOC		0.29
	0.07			
E-ST-5	Chem Storage	Acids	0.27	0.01
		Inorganics	0.23	0.02
		VOC		0.13
	<0.01			
E-ST-11	Emergency Generator	PM	0.20	0.05
		SO ₂	0.18	0.04
		CO	0.60	0.14
		NO _x	2.77	0.65
		VOC		0.26
	0.06			
E-ST-10, E-ST-12	Cooling Towers (7)	Acids	<0.01	0.01
		Inorganics	0.01	0.03
		VOC		<0.01
	<0.01			
E-ST-13	Emergency Generator	PM	1.23	0.29
		SO ₂	1.15	0.27
		CO	3.73	0.88
		NO _x	17.25	4.06
		VOC		1.64
	0.39			
E-ST-14	Emergency Generator	PM	1.23	0.29
		SO ₂	1.15	0.27
		CO	3.73	0.88
		NO _x	17.25	4.06
		VOC		1.64
	0.39			

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates*	
			lbs/hr	TPY
E-ST-15	Emergency Generator	PM	0.20	0.05
		SO ₂	0.18	0.04
		CO	0.60	0.14
		NO _x	2.77	0.65
		VOC		0.26
			0.06	

- (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 General Rule 101.1
 NO_x - total oxides of nitrogen
 CO - carbon monoxide
 PM - particulate matter
 SO₂ - sulfur dioxide
 HCFC - halogenated chlorofluorocarbons
- (4) Emission rates are summed for 2 operational boilers; 1 extra boiler is for backup only.
- (5) Emission rates are for a single generator.
- (6) Emission rates are summed for 2 boilers.
- (7) Emission rates are summed for all cooling towers.

* 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

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Dated_____