

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)	Emission Rates *	
			lbs/hr	TPY
E-AN-A1,2	Scrubber Stacks	Acids	1.53	6.41
E-AS-A1,2		Halocarbons	0.14	0.57
E-AS-E1		Hydrides	1.52	6.37
E-BR-1		Inorganics	0.21	0.87
		VOC	2.56	10.75
E-AS-S1	Rotor Concentrator/ Thermal Oxidizer Stack	VOC	7.44	31.22
		CO	4.50	19.71
		NO _x	0.60	2.63
E-BR-2,	Solvent Stack	Halocarbons	0.01	0.01
E-BR-3,4,6,	Lab Vents	Inorganics	<0.01	0.03
E-BR-5	Burn Box Vent	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-4,5,9	Emergency Generators (5)	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-CR-6	Lab Vent	Acids	0.01	0.06
	DI System	Inorganics	0.03	0.14
		VOC	<0.01	<0.01
E-CR-7	Scrubber Stack	Acids	0.04	0.16
E-CR-8	Gas Compressor	SO ₂	<0.01	0.02

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			lbs/hr	TPY
		CO	2.70	11.83
		NO _x	1.94	8.50
		VOC	0.60	2.63
E-DR-1	Lab Acid Exhaust	Acid	0.14	0.60
		Halocarbons	0.01	0.05
		Inorganics/Bases	0.05	0.24
E-DR-2	Lab/Maint Exhaust	VOC	0.07	0.32
E-ER-1,2,3,4	Test Floor	Acids	0.02	0.08
		Halocarbons	0.02	0.09
		Hydrides	0.01	0.02
		Inorganics	0.01	0.05
		VOC	0.06	0.28
E-ER-5	Boiler Stack (6)	PM	0.18	0.28
		SO ₂	1.30	0.1
		CO	0.45	1.93
		NO _x	1.80	7.70
		VOC	0.067	0.29
E-FR-1,2	Test Floor/Labs	Acids	0.01	0.02
		Halocarbons	0.01	0.02
		Inorganics	<0.01	<0.01
		VOC	0.02	0.08
E-HR-1, E-HR-2, E-HR-3,	Exhaust Stack Paint Booth Exhaust Stack	Acids	<0.01	<0.01
		Inorganics	<0.01	<0.01
		VOC	4.28	0.88
		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

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			lbs/hr	TPY
E-JR-3, E-JR-4	Exhaust Stack Scrubber Stack	Acids	0.02	0.08
		Halocarbons	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 Burn Box Vent	Acids	<0.01	<0.01
		Halocarbons	<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
		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

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lbs/hr	TPY
		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
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
E-ST-17	Emergency Generator	PM	0.29	0.13
		SO ₂	0.62	0.27
		CO	1.55	0.68
		NO _x	5.81	2.54
		VOC	0.32	0.14

- (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

Halocarbons- 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.
- (8) Emission rates for hydrides are effective after January 15, 1996.

* 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

Dated_____