

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

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 Stack	Acids	1.43	
	6.26			
E-AS-A1,2	" "	HCFC	0.02	
	0.11			
E-AS-E1	" "	Hydrides	1.91	
	8.37			
	Solvent Stack	Inorganics	0.06	
	0.24			
		VOC	0.07	
	0.29			
E-AS-H2	Heat Stack	VOC	0.69	0.10
E-AS-S1	Rotor Concentrator/	VOC	4.53	
	19.85			
	Thermal Oxidizer Stack	CO	4.50	
	19.71			
		NOx	0.60	
	2.63			
E-BR-1,	Scrubber Stack	Acids	0.22	
	0.91			
E-BR-2,	Solvent Stack	HCFC	<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			

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates*	
			lbs/hr	TPY
E-CR-1,2,3	Boiler Stacks (4)	PM	1.38	0.90
		SO2	0.51	6.45
		CO	9.63	2.24
		NOx	38.51	8.96
		VOC	0.77	0.18
E-CR-4,5	Emergency Generators (5)	PM	0.29	1.23
		SO2	0.27	1.15
		CO	0.88	3.73
		NOx	4.06	17.25
		VOC	0.39	1.64
E-CR-6,	Lab Vent	Acids	0.06	0.01
	DI System	Inorganics	0.14	0.03
E-CR-7	Scrubber Stack	VOC	<0.01	<0.01
E-CR-8	Gas Compressor	SO2	0.02	<0.01
		CO	11.83	2.70
		NOx	8.50	1.94
		VOC	2.63	0.60
E-ER-1,2,3,4	Test Floor	Acids		0.02

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			lbs/hr	TPY
	0.08			
		HCFC		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			
		SO2		1.30
	0.1			
		CO		0.45
	1.93			
		NOx		1.80
	7.70			
		VOC		0.067
	0.29			
E-FR-1,2	Test Floor/Labs	Acids		0.01
	0.02			
		HCFC		0.01
	0.02			
		Inorganics		<0.01
	<0.01			
		VOC		0.02
	0.08			
E-HR-1,	Exhaust Stack	Acids		<0.01
	<0.01			
E-HR-2,	Paint Booth	Inorganics		<0.01
	<0.01			
E-HR-3,	Exhaust Stack	VOC		4.28
	0.88			

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates*	
			lbs/hr	TPY
				PM
			<0.01	<0.01
E-JR-1,	Boiler Stacks (6)			PM
	0.28			0.18
E-JR-2				SO2
	0.10			1.30
				CO
	1.93			0.45
				NOx
	7.70			1.80
				VOC
	0.29			0.07
E-JR-3,	Exhaust Stack			Acids
	0.08			0.02
E-JR-4	Scrubber Stack			HCFC
	0.31			0.07
				VOC
	0.69			0.16
E-WR-1	Packaging Foam			VOC
	<0.01			<0.01
				PM
	<0.01			<0.01
E-SR-1,	Scrubber Stack			Acids
	<0.01			<0.01
E-SR-2	Burn Box Vent			HCFC
	<0.01			<0.01
				Hydrides
	0.01			<0.01
				Inorganics
	<0.01			<0.01
E-ST-1	Diesel Tank			VOC
	<0.01			0.13

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			lbs/hr	TPY
E-ST-2	Fire Pump <0.01	PM		0.10
		SO2		0.10
		CO		0.31
		NOx		1.44
		VOC		0.14
E-ST-3	Diesel Tank <0.01	VOC		0.13
E-ST-4	Emergency Generator 0.05	PM		0.21
		SO2		0.20
		CO		0.65
		NOx		3.00
		VOC		0.29
E-ST-5	Chem Storage 0.01	Acids		0.27
		Inorganics		0.23
		VOC		0.13
E-ST-11	Emergency Generator 0.05	PM		0.20
		SO2		0.18
	0.04			

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates*</u>	
			lbs/hr	TPY
	0.14	CO		0.60
	0.65	NOx		2.77
	0.06	VOC		0.26
E-ST-10,	Cooling Towers (7)	Acids		<0.01
E-ST-12	0.01	Inorganics		0.01
	0.03	VOC		<0.01
	<0.01			
E-ST-13	Emergency Generator	PM		1.23
	0.29	SO2		1.15
	0.27	CO		3.73
	0.88	NOx		17.25
	4.06	VOC		1.64
	0.39			
E-ST-14	Emergency Generator	PM		1.23
	0.29	SO2		1.15
	0.27	CO		3.73
	0.88	NOx		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	0.05	0.20
			0.04	0.18
		CO	0.14	0.60
			0.65	2.77
		VOC	0.06	0.26

- (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
 NOx - 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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			lbs/hr	TPY

Revised_____