

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 20162

This table lists the maximum allowable emission rates and all sources of air contaminants on the applicant's property covered by this permit.

AIR CONTAMINANTS DATA

Emission	Source	Air Contaminant	Emission Rates	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
(4)				
E-AN-A1, 2	Building A (Wet Scrubbers)	Inorganics	8.35	16.97
E-AS-A1, 2		VOC	2.13	9.31
E-BR-1		Exempt solvent	4.28	15.44
		PM 1.25	5.50	
		Ozone	3.28	14.36
E-AS-AMM	Ammonia Scrubber	Inorganics	3.64	1.87
		PM 0.25	1.10	
E-AS-S1	Rotor Concentrator/ Thermal Oxidizer Stack	VOC	87.69	33.88
		SO ₂	0.01	0.03
		PM	1.50	6.90
		NO _x	1.46	5.75
		CO	2.50	10.90
		Exempt solvent	0.82	0.42
E-BR-1, 2, 4, 5, 6, 7	B, C, and S Building Operations	VOC	1.24	5.15
E-CR-6, 7		Inorganics	2.0	8.35
E-SR-1, 2, 3		Exempt solvent	0.1	0.42
E-DR-1, 2	D, E, F, H, and J- Building Operations	VOC	1.23	5.11
E-ER-1, 2, 3, and 4		Inorganics	1.64	6.79
E-FR-1 and 2		Exempt solvent	0.1	0.42
E-HR-1, 2, 3, and 4				
E-JR-3				
E-CR-1, 2, 3	2 Boilers (Natural Gas-Fired) and 1 Boiler (Stand-By, Fuel Oil-Fired)	PM	1.33	3.95
		SO ₂	8.10	1.93
		CO	3.32	9.87
		NO _x	13.27	39.49
		VOC	0.22	0.77

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	AIR CONTAMINANTS DATA Emission Rates	
			lb/hr	TPY
(4)				
	2 Boilers (Fuel Oil-Fired)	PM	0.90	0.20
		SO ₂	16.13	3.53
		CO	2.24	0.49
		NO _x	8.96	1.96
		VOC	0.09	0.02
E-CR-4	A-Building Generator No. 2	PM	0.90	0.20
		SO ₂	16.13	3.53
		CO	2.24	0.49
		NO _x	8.96	1.96
		VOC	0.09	0.02
E-CR-5	A-Building Generator No. 1	PM	0.90	0.09
		SO ₂	4.07	0.41
		CO	8.87	0.89
		NO _x	40.66	4.07
		VOC	1.22	0.12
E-CR-10	Generator 1 Diesel Day Tank	VOC	0.01	0.01
E-CR-11	Generator 2 Diesel Day Tank	VOC	0.01	0.01
E-CR-12	Generator 5 Diesel Day Tank	VOC	0.01	0.01
E-ER-5	2 Boilers (Natural Gas-Fired) and 1 Boiler (Stand-By, Fuel Oil-Fired)	PM	0.24	0.67
		SO ₂	1.63	0.39
		CO	0.49	1.20
		NO _x	2.16	5.70
		VOC	0.09	0.32
	2 Boilers (Fuel Oil-Fired)	PM	0.18	0.04
		SO ₂	3.24	0.71

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Emission	Source	Air Contaminant	Emission Rates	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
(4)				
		CO	0.45	0.10
		NO _x	1.80	0.39
		VOC	0.03	0.01
E-JR-5 and 6	1 Boiler	PM	0.16	0.35
	(Natural Gas Fired)	SO ₂	1.62	0.37
	and 1 Hot Water Heater	CO	0.39	0.63
	(Natural Gas Fired)	NO _x	1.53	2.95
	VOC	0.62	0.06	
E-ST-1	CUB Diesel Tank	VOC	0.14	0.01
E-ST-2	Fire Pump	PM	0.46	0.05
	(Emergency Use)	SO ₂	0.43	0.04
		CO	1.39	0.14
		NO _x	6.42	0.64
		VOC	0.62	0.06
E-ST-3	ECP Diesel Tank	VOC	0.11	0.01
E-ST-4	E-Building	PM	0.64	0.06
	Emergency Generator	SO ₂	0.60	0.06
		CO	1.94	0.19
		NO _x	8.98	0.90
		VOC	0.87	0.09
E-ST-5	C-Building	Inorganics	0.17	0.01
	Cooling Tower Corrosion			
	Inhibitor Tank			
E-ST-10	C-Building Cooling Towers	Inorganics	0.01	0.01
		VOC	0.01	0.01
E-ST-11	H-Building	PM	0.59	0.06
	Emergency Generator	SO ₂	0.60	0.06
		CO	1.79	0.18
		NO _x	8.28	0.83

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	AIR CONTAMINANTS DATA Emission Rates	
			lb/hr	TPY
(4)				
		VOC	0.80	0.08
E-ST-12	E-Building Cooling Towers	Inorganics	0.01	0.01
		VOC	0.01	0.01
E-ST-13	Emergency Generator No. 4 B-Building	PM	0.90	0.09
		SO ₂	4.07	0.41
		CO	8.87	0.89
		NO _x	40.66	4.07
		VOC	1.22	0.12
E-ST-14	Emergency Generator No. 3 B-Building	PM	0.90	0.09
		SO ₂	4.07	0.41
		CO	8.87	0.89
		NO _x	40.66	4.07
		VOC	1.22	0.12
E-ST-16	C-Building Cooling Tower Biocide Tank	VOC	0.09	0.01
E-ST-17	D-Building Emergency Generator	PM	0.29	0.03
		SO ₂	0.62	0.06
		CO	1.55	0.16
		NO _x	5.81	0.58
		VOC	0.32	0.03
E-ST-19	Generator 3, 4 Diesel Day Tank	VOC	0.01	0.01
E-ST-20	D, E, and H Generator Diesel Day Tank	VOC	0.01	0.01
E-ST-21	Fire Pump Diesel Day Tank	VOC	0.01	0.01

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			Emission Rates	
			lb/hr	TPY
(4)				
ALL	Various	Individual HAPs		<10.00
		All HAPs		<25.00

- (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 Title 30 Texas Administrative Code § 101.1 (30 TAC § 101.1)
- Exempt solvent - as defined in 30 TAC § 101.1
- HAP - any air contaminant (pollutant) listed in § 112(b) of the Federal Clean Air Act or Title 40 Code of Federal Regulations Part 63, Subpart C
- NO_x - total oxides of nitrogen
- CO - carbon monoxide
- PM - particulate matter suspended in the atmosphere, including PM₁₀.
- PM₁₀ - particulate matter equal to or less than 10 microns in diameter.
- SO₂ - sulfur dioxide
- (4) Annual emissions are based on a rolling 12-month average.

Dated October 5, 2004