

# 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 Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			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		Excluded VOC	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 <sub>2</sub>	0.01	0.03
		PM	1.50	6.90
		NO <sub>x</sub>	1.46	5.75
		CO	2.50	10.90
		Excluded VOC	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		Excluded VOC	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		Excluded VOC	0.1	0.42
E-HR-1, 2, 3, and 4				
E-JR-3				

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Emission	Source	Air Contaminant	Emission Rates	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
(4)				
E-CR-1, 2, 3	2 Boilers (Natural Gas-Fired) and 1 Boiler (Stand-By, Fuel Oil-Fired)	PM	1.33	3.95
		SO <sub>2</sub>	8.10	1.93
		CO	3.32	9.87
		NO <sub>x</sub>	13.27	39.49
		VOC	0.22	0.77
	2 Boilers (Fuel Oil-Fired)	PM	0.90	0.20
		SO <sub>2</sub>	16.13	3.53
		CO	2.24	0.49
		NO <sub>x</sub>	8.96	1.96
		VOC	0.09	0.02
E-CR-4	A-Building Generator No. 2	PM	0.90	0.20
		SO <sub>2</sub>	16.13	3.53
		CO	2.24	0.49
		NO <sub>x</sub>	8.96	1.96
		VOC	0.09	0.02
E-CR-5	A-Building Generator No. 1	PM	0.90	0.09
		SO <sub>2</sub>	4.07	0.41
		CO	8.87	0.89
		NO <sub>x</sub>	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

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Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
<u>(4)</u>				
E-ER-5	2 Boilers (Natural Gas-Fired) and 1 Boiler (Stand-By, Fuel Oil-Fired)	PM	0.24	0.67
		SO <sub>2</sub>	1.63	0.39
		CO	0.49	1.20
		NO <sub>x</sub>	2.16	5.70
		VOC	0.09	0.32
	2 Boilers (Fuel Oil-Fired)	PM	0.18	0.04
		SO <sub>2</sub>	3.24	0.71
		CO	0.45	0.10
		NO <sub>x</sub>	1.80	0.39
		VOC	0.03	0.01
E-JR-5 and 6	1 Boiler (Natural Gas Fired) and 1 Hot Water Heater (Natural Gas Fired)	PM	0.16	0.35
		SO <sub>2</sub>	1.62	0.37
		CO	0.39	0.63
		NO <sub>x</sub>	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 (Emergency Use)	PM	0.46	0.05
		SO <sub>2</sub>	0.43	0.04
		CO	1.39	0.14
		NO <sub>x</sub>	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 Emergency Generator	PM	0.64	0.06
		SO <sub>2</sub>	0.60	0.06
		CO	1.94	0.19
		NO <sub>x</sub>	8.98	0.90
		VOC	0.87	0.09
E-ST-5	C-Building Cooling Tower Corrosion Inhibitor Tank	Inorganics	0.17	0.01

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(4)				
E-ST-10	C-Building Cooling Towers	Inorganics	0.01	0.01
		VOC	0.01	0.01
E-ST-11	H-Building Emergency Generator	PM	0.59	0.06
		SO <sub>2</sub>	0.60	0.06
		CO	1.79	0.18
		NO <sub>x</sub>	8.28	0.83
		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 <sub>2</sub>	4.07	0.41
		CO	8.87	0.89
		NO <sub>x</sub>	40.66	4.07
		VOC	1.22	0.12
E-ST-14	Emergency Generator No. 3 B-Building	PM	0.90	0.09
		SO <sub>2</sub>	4.07	0.41
		CO	8.87	0.89
		NO <sub>x</sub>	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 <sub>2</sub>	0.62	0.06
		CO	1.55	0.16
		NO <sub>x</sub>	5.81	0.58
		VOC	0.32	0.03
E-ST-19	Generator 3, 4 Diesel Day Tank	VOC	0.01	0.01

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(4)				
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

(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 Section 101.1 (30 TAC § 101.1).

Excluded VOC - volatile organic compounds as defined in 30 TAC § 101.1 specifically excluded from the definition of VOC in 30 TAC § 101.1.

NO<sub>x</sub> - total oxides of nitrogen

CO - carbon monoxide

PM - particulate matter suspended in the atmosphere, including PM<sub>10</sub>.

SO<sub>2</sub> - sulfur dioxide

(4) Annual emissions are based on a rolling 12-month average.

Dated January 7, 2002