

# EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

5485

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	Source	Air Contaminant	<u>Emission Rates *</u>	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
<u>CASE 1: NATURAL GAS FIRING (8,760 HRS/YR)</u>				
E-CPR-3	CP BLR 1 (750-HP Cleaver- Brooks, 31.4MMBtu/Hr)	PM	0.62	2.72
		VOC	0.38	1.66
		NOx	3.14	13.75
		SO2	0.02	0.08
		CO	4.71	20.63
E-CPR-2	CP BLR 2 (500-HP Kewanee, 20.9 MMBtu/Hr)	PM	0.04	0.18
		VOC	0.08	0.35
		NOx	2.09	9.15
		SO2	0.01	0.06
		CO	0.31	1.36
E-CPR-1	CP BLR 3 (750-HP Kewanee, 31.4 MMBtu/Hr)	PM	0.06	0.26
		VOC	0.13	0.57
		NOx	3.14	13.75
		SO2	0.02	0.08
		CO	0.47	2.06
E-PUBR-1	PUB BLR 1 (500-HP Cleaver- Brooks, 20.9 MMBtu/Hr)	PM	0.41	1.84
		VOC	0.25	1.10
		NOx	1.26	5.52
		SO2	0.01	0.06
		CO	1.57	6.88
E-PUBR-2	PUB BLR 2 (500-HP Cleaver- Brooks, 20.9 MMBtu/Hr)	PM	0.41	1.84
		VOC	0.25	1.10
		NOx	1.26	5.52
		SO2	0.01	0.06
		CO	1.57	6.88
E-PUBR-3	PUB BLR 3 (500-HP Kewanee, 20.9 MMBtu/Hr)	PM	0.04	0.02
		VOC	0.08	0.04
		NOx	2.09	0.92

SO2		0.01	0.01
CO	0.31	0.14	

AIR CONTAMINANTS DATA

Emission	Source	Air Contaminant	Emission Rates *		
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY	
<u>CASE II: No.2 FUEL OIL FIRING (672 HRS/YR)</u>					
E-CPR-3	CP BLR 1 (750-HP Cleaver- Brooks, 31.4 MMBtu/Hr)	PM	1.16	0.38	
		VOC	0.63	0.21	
		NOx	6.78	2.28	
		SO2	7.20	2.42	
		CO	0.97	0.33	
E-CPR-2	CP BLR 2 (500-HP Kewanee, 20.9 MMBtu/Hr)	PM	2.10	0.70	
		VOC	0.10	0.03	
		NOx	4.51	1.52	
		SO2	4.80	1.61	
		CO	0.33	0.11	
E-CPR-1	CP BLR 3 (750-HP Kewanee, 31.4 MMBtu/Hr)	PM	3.14	1.06	
		VOC	0.16	0.05	
		NOx	6.78	2.28	
		SO2	7.20	2.42	
		CO	0.50	0.17	
E-PUBR-1	PUB BLR 1 (500-HP Cleaver- Brooks, 20.9 MMBtu/Hr)	PM	0.78	0.26	
		VOC	0.52	0.17	
		NOx	3.69	1.24	
		SO2	4.80	1.61	
		CO	1.47	0.49	
E-PUBR-2	PUB BLR 1 (500-HP Cleaver- Brooks, 20.9 MMBtu/Hr)	PM	0.78	0.26	
		VOC	0.52	0.17	
		NOx	3.69	1.24	
		SO2	4.80	1.61	
		CO	1.47	0.49	
E-PUBR-3	PUB BLR 3 (500-HP Kewanee, 20.9 MMBtu/Hr)	PM	2.10	0.92	
		VOC	0.10	0.04	
		NOx	4.51	1.98	
		SO2	4.80	2.10	
		CO	0.33	0.14	

CASE III: COMBINED FIRING 8,088 HRS/YR NATURAL GAS AND 672 HRS/YR NO. 2 FUEL OIL

E-CPR-3	CP BLR 1 (750-HP Cleaver- Brooks, 31.4 MMBtu/Hr)		PM	2.87	
			VOC	1.73	
			NOx	14.88	

SO2  
CO

2.49  
19.24

# AIR CONTAMINANTS DATA

Emission Point No. (1)	Source		Air Contaminant		<u>Emission Rates *</u>
	Name (2)	Name (3)	lb/hr	TPY	
E-CPR-2	CP BLR 2 (500-HP Kewanee, 20.9 MMBtu/Hr)			PM	0.87
				VOC	0.35
				NOx	9.91
				SO2	1.67
				CO	1.36
E-CPR-1	CP BLR 3 (750-HP Kewanee, 31.4 MMBtu/Hr)			PM	1.29
				VOC	0.57
				NOx	14.88
				SO2	2.49
				CO	2.06
E-PUBR-1	PUB BLR 1 (500-HP Cleaver- Brooks, 20.9 MMBtu/Hr)			PM	1.95
				VOC	1.18
				NOx	6.30
				SO2	1.67
				CO	6.80
E-PUBR-2	PUB BLR 2 (500-HP Cleaver- Brooks, 20.9 MMBtu/Hr)			PM	1.95
				VOC	1.18
				NOx	6.30
				SO2	1.67
				CO	6.80
E-PUBR-3	PUB BLR 3 (500-HP Kewanee, 20.9 MMBtu/Hr)			PM	0.94
				VOC	0.08
				NOx	2.82
				SO2	2.11
				CO	0.27

- (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) PM - particulate matter  
VOC - volatile organic compounds as defined in General Rule 101.1  
NOx - total oxides of nitrogen  
SO2 - sulfur dioxide  
CO - carbon monoxide
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.

\* 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