EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

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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.

Emission	Source	Air Contaminant	Emission	Rates *
Point No. (1)	Name (2) Name (3)	lb/hr(4) TPY(5)		
	natural gas and supplemental hy , B-C-9B, A-C-OA/OB/OC only) 8			
B-C-8A	42 MMBtu/hr Process Heater	NOx CO SO2 PM10 VOC	5.15 1.29 0.02 0.18 0.10	22.57 5.64 0.10 0.81 0.45
B-C-8B	42 MMBtu/hr Process Heater	NOx CO SO2 PM10 VOC	5.15 1.29 0.02 0.18 0.10	22.57 5.64 0.10 0.81 0.45
B-C-8C	31 MMBtu/hr Process	NOx CO SO2 PM10 VOC	3.74 0.94 0.02 0.13 0.07	16.39 4.10 0.07 0.59 0.33
B-C-8D	31 MMBtu/hr Process	NOx CO SO2 PM10 VOC	3.74 0.94 0.02 0.13 0.07	16.39 4.10 0.07 0.59 0.33
B-C-8E	34 MMBtu/hr Process	NOx CO SO2 PM10 VOC	4.17 1.04 0.02 0.15 0.08	18.25 4.56 0.08 0.65 0.37
B-C-9A	69 MMBtu/hr Dowtherm	NOx	8.89	38.95

CO	2.22	9.74
		SO2
		0.04
		0.16
PM10	0.32	1.39
VOC	0.18	0.78

Emission Point No. (1) Na	Source me (2) Name (3)	Air Contaminant lb/hr(4) TPY(5)	Emission	Rates *
B-C-9B	69 MMBtu/hr Dowtherm	NOx CO	8.89 2.22	38.95 9.74
				SO2
				0.04
		PM10 VOC	0.32 0.18	0.16 1.39 0.78
A-C-OA/OB/OC(5)	130 MMBtu/hr Dowtherm	NOx CO SO2 PM10 VOC	15.77 3.94 0.07 0.56 0.32	69.07 17.27 0.30 2.47 1.38
C-C-1A/1B (5)	14 MMBtu/hr Aluminum Melt	NOx CO SO2	1.52 0.38 0.01	6.67 1.67 0.03
	0.05	0.24	F	PM10
	0.05	0.24 VOC	0.03	0.13
C-C-1C/1D (5)	14 MMBtu/hr Aluminum Melt	NOx CO SO2 PM10 VOC	1.52 0.38 0.01 0.05 0.03	6.67 1.67 0.03 0.24 0.13
Case 2: Waste liqu	id fuel firing 168 hours per ye	ar:		
B-C-8A	42 MMBtu/hr Process Heater	NOx CO PM10 VOC	44.16 1.84 0.74 0.07	3.71 0.15 0.06 0.01

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B-C-8B	42 MMBtu/hr Process Heater	NOx CO PM10 VOC	44.16 1.84 0.74 0.07	3.71 0.15 0.06 0.01
B-C-8C	31 MMBtu/hr Process	NOx CO PM10 VOC	32.06 1.34 0.53 0.05	2.69 0.11 0.04 0.01
B-C-8D	31 MMBtu/hr Process	NOx CO PM10 VOC	32.06 1.34 0.53 0.05	2.69 0.11 0.04 0.01

Emission Point No. (1) Na	Source ame (2) Name (3)	Air Contaminant lb/hr(4) TPY(5)	Emission F	Rates *
B-C-8E	34 MMBtu/hr Process	NOx CO PM10 VOC	35.71 1.49 0.60 0.06	3.00 0.13 0.05 0.01
B-C-9A	69 MMBtu/hr Dowtherm	NOx CO	72.22 3.17	6.07 0.27
		PM10 VOC	1.27 0.13	0.11 0.01
B-C-9B	69 MMBtu/hr Dowtherm	NOx CO	72.22 3.17	6.07 0.27
		PM10 VOC	1.27 0.13	0.11 0.01
A-C-OA/OB/OC (5)	130 MMBtu/hr Dowtherm	NOx CO PM10 VOC	135.17 5.63 2.25 0.23	11.35 0.47 0.19 0.02
C-C-1A/1B (5)	14 MMBtu/hr Aluminum Melt	NOx CO PM10 VOC	13.06 0.54 0.22 0.02	1.10 0.05 0.02 0.10
C-C-1C/1D (5)	14 MMBtu/hr Aluminum Melt	NOx CO PM10 VOC	13.06 0.54 0.22 0.02	1.10 0.05 0.02 0.10
Case 3: No.4 fuel of	oil firing 336 hours per year:			
B-C-8A	42 MMBtu/hr Process Heater	NOx CO PM10 VOC SO2 SO3	7.36 1.84 2.58 0.07 15.68 0.22	1.24 0.31 0.43 0.01 2.63 0.04
B-C-8B	42 MMBtu/hr Process	NOx	7.36	1.24

Heater	CO	1.84	0.31
	PM10	2.58	0.43
	VOC	0.07	0.01
	SO2	15.68	2.63
	SO3	0.22	0.04

Emission Point No. (1) Nan	Source ne (2) Name (3)	Air Contaminant lb/hr(4) TPY(5)	Emission Ra	ates *
B-C-8C	31 MMBtu/hr Process Heater	NOx CO PM10 VOC SO2 SO3	5.34 1.34 1.87 0.05 11.38 0.16	0.90 0.23 0.31 0.01 1.91 0.03
B-C-8D	31 MMBtu/hr Process Heater	NOx CO PM10 VOC SO2 SO3	5.34 1.34 1.87 0.05 11.38 0.16	0.90 0.23 0.31 0.01 1.91 0.03
B-C-8E	34 MMBtu/hr Process Heater	NOx CO PM10 VOC SO2 SO3	5.95 1.49 2.08 0.06 12.68 0.18	1.00 0.25 0.35 0.01 2.13 0.03
B-C-9A	69 MMBtu/hr Dowtherm	NOx CO PM10 VOC SO2 SO3	12.70 3.18 4.60 0.13 25.36 0.36	2.13 0.53 0.77 0.02 4.26 0.06
B-C-9B	69 MMBtu/hr Dowtherm	NOx CO PM10 VOC SO2 SO3	12.70 3.18 4.60 0.13 25.36 0.36	2.13 0.53 0.77 0.02 4.26 0.06
A-C-OA/OB/OC (5)	130 MMBtu/hr Dowtherm	NOx CO PM10 VOC SO2 SO3	22.53 5.63 7.89 0.23 47.98 0.68	3.79 0.95 1.32 0.04 8.06 0.11
C-C-1A/1B (5)	14 MMBtu/hr Aluminum	NOx	2.18	0.37

Melt	CO	0.54	0.09
	PM10	0.76	0.13
	VOC	0.02	0.01
	SO2	4.63	0.78
	SO3	0.07	0.01

Emission	Sour	ce	Air Contaminant	Emission	Rates *
Point No. (1)	Name (2)	Name (3)	lb/hr(4) TPY(5)		
C-C-1C/1D(5)	14 MME Melt	8tu/hr Aluminum	NOx CO PM10 VOC SO2 SO3	2.18 0.54 0.76 0.02 4.63 0.07	0.37 0.09 0.13 0.01 0.78 0.01

Case 4: Firing a combination of natural gas and supplemental hydrocarbon fuel (EPNs B-C-9A, B-C-9B, A-C-OA/OB/OC only) 8,256 hrs/yr, waste liquid fuel 168 hrs/yr, and No. 4 fuel oil 336 hrs/yr:

B-C-8A	42 MMBtu/hr Process Heater	NOx CO SO2 SO3 PM10 VOC	44.16 1.84 15.68 0.22 2.58 0.10	26.21 5.78 2.72 0.04 1.25 0.44
B-C-8B	42 MMBtu/hr Process Heater	NOx CO SO2 SO3 PM10 VOC	44.16 1.84 15.68 0.22 2.58 0.10	26.12 5.78 2.72 0.04 1.25 0.44
B-C-8C	31 MMBtu/hr Process	NOx CO SO2 SO3 PM10 VOC	32.06 1.34 11.38 0.16 1.87 0.07	19.03 4.20 1.98 0.03 0.91 0.32
B-C-8D	31 MMBtu/hr Process	NOX CO SO2 SO3 PM10 VOC	32.06 1.34 11.38 0.16 1.87 0.07	19.03 4.20 1.98 0.03 0.91 0.32
B-C-8E	34 MMBtu/hr Process	NOx CO SO2	35.71 1.49 12.68	21.20 4.67 2.20

SO3	0.18	0.03
PM10	2.08	1.01
VOC	0.08	0.36

Emission Point No. (1) Name	Source e (2) Name (3)	Air Contaminant lb/hr(4) TPY(5)	Emission Rates *	
B-C-9A	69 MMBtu/hr Dowtherm	NOx CO	72.22 3.18	44.91 9.98
				SO2
				25.36
		SO3 PM10 VOC	0.36 4.60 0.18	4.41 0.06 2.19 0.77
B-C-9B	69 MMBtu/hr Dowtherm	NOx CO	72.22 3.18	44.91 9.98
				SO2
				25.36
		SO3 PM10 VOC	0.36 4.60 0.18	4.41 0.06 2.19 0.77
A-C-OA/OB/OC(5)	130 MMBtu/hr Dowtherm	NOx CO SO2 SO3 PM10 VOC	135.17 5.63 47.98 0.68 7.88 0.32	80.24 17.69 8.34 0.11 3.84 1.36
C-C-1A/1B (5)	14 MMBtu/hr Aluminum Melt	NOx CO SO2 SO3 PM10 VOC	13.06 0.54 4.63 0.07 0.76 0.03	7.75 1.71 0.81 0.01 0.37 0.13

C-C-1C/1D (5)	14 MMBtu/hr Aluminum	NOx	13.06	7.75
	Melt	CO	0.54	1.71
		SO2	4.63	0.81
		SO3	0.07	0.01
		PM10	0.76	0.37
		VOC	0.03	0.13

- Emission point identification either specific equipment designation or emission point number (1) from plot plan.
- Specific point source name.
- (2) (3) PM10 - particulate matter less than 10 microns
 - VOC volatile organic compounds as defined in General Rule 101.1 NOx total oxides of nitrogen

 - SO2 sulfur dioxide
 - SO3 sulfur trioxide
 - CO carbon monoxide

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Revised____

(4) (5)	, ·					
*	* The facilities are limited by the following maximum operating schedule:					
	Hrs/dayDays/weekWeeks/yearor Hrs/year_8,760_					