Permit No. 1820

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	<u>Emissio</u>	n Rates
* Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
	tural gas and supple 9B, A-C-OA/OB/OC on	emental hydrocarbon f ly) 8,760 hrs/yr:	<u>uel</u>	
B-C-8A	42 MMBtu/hr Process Heater	S NO _x CO SO ₂ PM ₁₀ 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	S NO _x CO SO ₂ PM ₁₀ 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	S NO _x CO SO ₂ PM ₁₀ 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 Proces	$\begin{array}{c} \text{S} & \text{NO}_x \\ \text{CO} \\ \text{SO}_2 \\ \text{PM}_{10} \\ \text{VOC} \end{array}$	3.74 0.94 0.02 0.13 0.07	16.39 4.10 0.07 0.59 0.33

Emission	Source	Air Contaminant	<u>Emission Rates</u>
<u>*</u> Point No. (1)	Name (2)	Name (3) lb	/hr TPY
B-C-8E	34 MMBtu/hr Process	NO_x CO SO_2 PM_{10} VOC	4.17 18.25 1.04 4.56 0.02 0.08 0.15 0.65 0.08 0.37
B-C-9A	69 MMBtu/hr Dowtherm	NO _x CO SO ₂ PM ₁₀ VOC	8.89 38.95 2.22 9.74 0.04 0.16 0.32 1.39 0.18 0.78
B-C-9B	69 MMBtu/hr Dowtherm	CO SO ₂ PM ₁₀ VOC	8.89 38.95 2.22 9.74 0.04 0.16 0.32 1.39 0.18 0.78
Case 2: Waste lig	<u>uid fuel firing 168 h</u>	ours per year:	
B-C-8A	42 MMBtu/hr Process Heater	NO _x CO PM ₁₀ VOC	44.163.711.840.150.740.060.070.01
B-C-8B	42 MMBtu/hr Process Heater	NO_{x} CO PM_{10} VOC	44.16 3.71 1.84 0.15 0.74 0.06 0.07 0.01
B-C-8C	31 MMBtu/hr Process	NO_x CO PM_{10} VOC	32.06 2.69 1.34 0.11 0.53 0.04 0.05 0.01

Emission	Source	Air Contaminant	<u>Emission</u>	Rates
<u>*</u> Point No. (1)	Name (2)	Name (3)	1b/hr TPY	
B-C-8D	31 MMBtu/hr Process	S NO _x CO PM ₁₀ VOC	32.06 1.34 0.53 0.05	2.69 0.11 0.04 0.01
B-C-8E	34 MMBtu/hr Process	S NO _x CO PM ₁₀ VOC	35.71 1.49 0.60 0.06	3.00 0.13 0.05 0.01
B-C-9A	69 MMBtu/hr Dowther	${ m CM}$ ${ m NO}_{ m x}$ ${ m CO}$ ${ m PM}_{ m 10}$ ${ m VOC}$	72.22 3.17 1.27 0.13	6.07 0.27 0.11 0.01
B-C-9B	69 MMBtu/hr Dowther	${ m CM} > { m NO}_{ m x} < { m CO} < { m PM}_{ m 10} < { m VOC}$	72.22 3.17 1.27 0.13	6.07 0.27 0.11 0.01
Case 3: No. 4 fue	<u>l oil firing 336 hou</u>	ırs per year:		
B-C-8A	42 MMBtu/hr Process Heater	NO_{x} CO PM_{10} VOC SO_{2} SO_{3}	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 Heater	NO_{\times} CO PM_{10} VOC SO_{2}	7.36 1.84 2.58 0.07 15.68	1.24 0.31 0.43 0.01 2.63

Emission *	Source	Air Contaminant	<u>Emission</u>	Rates
Point No. (1)	Name (2)	Name (3)	lb/hr TPY	
		SO₃	0.22	0.04
B-C-8C	31 MMBtu/hr Process Heater	NO_x CO PM_{10} VOC SO_2 SO_3	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	$\begin{array}{c} NO_x \\ CO \\ PM_{10} \\ VOC \\ SO_2 \\ SO_3 \end{array}$	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	$\begin{array}{c} NO_x \\ CO \\ PM_{10} \\ VOC \\ SO_2 \\ SO_3 \end{array}$	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 Dowther	$\begin{array}{c} \text{m} & \text{NO}_{\times} \\ \text{CO} \\ \text{PM}_{10} \\ \text{VOC} \\ \text{SO}_{2} \\ \text{SO}_{3} \end{array}$	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 Dowther	m NO_x CO PM_{10} VOC	12.70 3.18 4.60 0.13	2.13 0.53 0.77 0.02

Emission	Source	Air Contaminant	<u>Emission</u>	Rates
Point No. (1)	Name (2)	Name (3)	lb/hr TPY	<u> </u>
		SO ₂ SO ₃	25.36 0.36	4.26 0.06

Emission *	Source	Air Contaminant	<u>Emission</u>	Rates
Point No. (1)	Name (2)	Name (3)	lb/hr TPY	<u> </u>
<u>fuel (EPNs B-C-9A</u>	combination of natu , B-C-9B, A-C-0A/0B/ and No. 4 fuel oil 33	<u>/OC only) 8,256 ł</u>		
B-C-8A	42 MMBtu/hr Process Heater	NO_{x} CO SO_{2} SO_{3} PM_{10} VOC	1.84 15.68 0.22 2.58	6.21 5.78 2.72 0.04 1.25 0.44
B-C-8B	42 MMBtu/hr Process Heater	NO_x CO SO_2 SO_3 PM_{10} VOC	1.84 15.68 0.22 2.58	6.12 5.78 2.72 0.04 1.25 0.44
B-C-8C	31 MMBtu/hr Process	NO_x CO SO_2 SO_3 PM_{10} VOC	1.34 11.38 0.16 1.87	9.03 4.20 1.98 0.03 0.91
B-C-8D	31 MMBtu/hr Process	NO_x CO SO_2 SO_3 PM_{10} VOC	1.34 11.38 0.16 1.87	9.03 4.20 1.98 0.03 0.91 0.32
B-C-8E	34 MMBtu/hr Process	NO _x CO SO ₂	1.49	1.20 4.67 2.20

Emission	Source	Air Contaminant	Emission Rates	_
Point No. (1)	Name (2)	Name (3)	<u>lb/hr TPY</u>	
B-C-9A	69 MMBtu/hr Dowther	$\begin{array}{ccc} SO_3 \\ PM_{10} \\ VOC \\ n & NO_x \\ CO \\ SO_2 \\ SO_3 \\ PM_{10} \\ VOC \\ \end{array}$	0.18 0.03 2.08 1.01 0.08 0.36 72.22 44.91 3.18 9.98 25.36 4.41 0.36 0.06 4.60 2.19 0.18 0.77	
B-C-9B	69 MMBtu/hr Dowther	$\begin{array}{cc} \text{m} & \text{NO}_{\text{x}} \\ & \text{CO} \\ & \text{SO}_{\text{2}} \\ & \text{SO}_{\text{3}} \\ & \text{PM}_{\text{10}} \\ & \text{VOC} \end{array}$	72.22 44.91 3.18 9.98 25.36 4.41 0.36 0.06 4.60 2.19 0.18 0.77	

⁽¹⁾ Emission point identification - either specific equipment designation or emission point number from plot plan.

st The facilities are limited by the following maximum operating :	schedule:
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Hrs/day	Days/week	Weeks/year	or Hrs/year <u>8,760</u>	
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⁽²⁾ Specific point source name.

⁽³⁾ PM_{10} - particulate matter less than 10 microns

VOC - volatile organic compounds as defined in General Rule 101.1

 NO_x - total oxides of nitrogen

SO₂ - sulfur dioxide

SO₃ - sulfur trioxide

CO - carbon monoxide

AIR CONTAMINANTS DATA

Emission *	Source	Air Contaminant	<u>Emission</u>	Rates
Point No. (1)	Name (2)	Name (3)	lb/hr TPY	

Dated____