

# EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 8418

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	Emission Rates	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
<u>DIB-300 Unit</u>				
Contains a total of four IR-Allison Turbines. Three Allison turbines share two stacks and one has its own stack.				
6	1½ - 501KC Allison Turbines 1.90		PM	0.43
	With 10MMBtu/hr Duct Burner	VOC	0.17	0.75
		NO <sub>x</sub>	39.30	138.30
		SO <sub>2</sub>	0.12	0.53
		CO	5.17	22.60
7	1½ - 501KC Allison Turbines 1.90		PM	0.43
	With 10MMBtu/hr Duct Burner	VOC	0.17	0.75
		NO <sub>x</sub>	39.30	138.30
		SO <sub>2</sub>	0.12	0.53
		CO	5.17	22.60
14	501KC Allison Turbine	PM	0.18	0.81
	With Water Injection	VOC	0.80	3.50
		NO <sub>x</sub>	7.00	30.66
		SO <sub>2</sub>	0.07	0.28
		CO	4.50	19.71

## DIB-400 Unit

Contains a total of four IR-Allison Turbines. Three Allison turbines share two stacks and one has its own stack.

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## AIR CONTAMINANTS DATA

Emission * Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lb/hr	TPY
8	1½ - 501KC Allison Turbines 1.90		PM	0.43
	With 10MMBtu/hr Duct Burner	VOC	0.17	0.75
		NO <sub>x</sub>	39.30	138.30
		SO <sub>2</sub>	0.12	0.53
		CO	5.17	22.60
9	1½ - 501KC Allison Turbines 1.90		PM	0.43
	With 10MMBtu/hr Duct Burner	VOC	0.17	0.75
		NO <sub>x</sub>	39.30	138.30
		SO <sub>2</sub>	0.12	0.53
		CO	5.17	22.60
15	501KC Allison Turbine With Water Injection	PM	0.18	0.81
		VOC	0.80	3.50
		NO <sub>x</sub>	7.00	30.66
		SO <sub>2</sub>	0.07	0.28
		CO	4.50	19.71
F4	Deisobutanizer Units Fugitives (4)	VOC	3.81	16.69
F2	Butamer Units Fugitives (4) 21.40		VOC	4.89
FL-1	Main Flare Contribution	NO <sub>x</sub>	2.00	8.70
		CO	5.70	25.10
		VOC	5.30	23.20

(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

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

VOC - volatile organic compounds as defined in General Rule 101.1

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

SO<sub>2</sub> - 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 \_\_\_\_\_ Days/week \_\_\_\_\_ Weeks/year or \_\_\_\_\_  
8,760 Hrs/year

Dated \_\_\_\_\_