

# EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATE

Permit No. 95

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 Point No. (1)	Source		Air Contaminant		<u>Emission Rates *</u>	
	Name (2)	Name (3)	lb/hr	TPY		
DB-101-A	E/P Furnace			NO2	37.50	164.30
				CO	13.50	59.20
				PM10	1.70	7.40
				SO2	3.10	0.70
				VOC	1.00	4.30
DB-101-B	E/P Furnace			NO2	37.50	164.30
				CO	13.50	59.20
				PM10	1.70	7.40
				SO2	3.10	0.70
				VOC	1.00	4.30
DB-101-C	E/P Furnace			NO2	37.50	164.30
				CO	13.50	59.20
				PM10	1.70	7.40
				SO2	3.10	0.70
				VOC	1.00	4.30
DB-101-D	E/P Furnace			NO2	42.10	184.40
				CO	15.20	66.40
				PM10	1.90	8.40
				SO2	3.50	0.80
				VOC	1.10	4.80
DB-102-A	Liquid Furnace			NO2	28.50	124.80
				CO	10.30	44.90
				PM10	1.30	5.70
				SO2	2.40	0.50
				VOC	0.70	3.20

DB-102-B	Liquid Furnace	NO2	28.50	124.80
		CO	10.30	44.90
		PM10	1.30	5.70
		SO2	2.40	0.50
		VOC	0.70	3.30

AIR CONTAMINANTS DATA

Emission (2)	Name (3)	Source lb/hr	Air Contaminant TPY	Emission Rates*	Point No. (1)	Name
DB-102-C		Liquid Furnace	NO2	28.50	124.80	
			CO	10.30	44.90	
			PM10	1.30	5.70	
			SO2	2.40	0.50	
			VOC	0.70	3.20	
DB-102-D		Liquid Furnace	NO2	28.50	124.80	
			CO	10.30	44.90	
			PM10	1.30	5.70	
			SO2	2.40	0.50	
			VOC	0.70	3.20	
DB-103		Liquid Furnace	NO2	28.50	124.80	
			CO	10.30	44.90	
			PM10	1.30	5.70	
			SO2	2.40	0.50	
			VOC	0.70	3.20	
DB-201		Regeneration Furnace	NO2	5.90	25.60	
			CO	2.10	9.20	
			PM10	0.30	1.20	
			SO2	0.50	0.10	
			VOC	0.20	0.70	
DB-601		Regeneration Heater	NO2	0.81	3.55	
			CO	0.29	1.28	
			PM10	0.037	0.16	
			SO2	0.067	0.015	
			VOC	0.021	0.092	
DM-1101		Flare	NO2	1.36	0.88	
			CO	8.02	5.26	
			SO2	0.01	0.02	
			VOC	10.01	14.15	
AT-1210		Cooling Tower	VOC	2.62	11.50	
DZ-902		Lime Silo Filter Vent	PM	3.0	0.048	
FUG-A10F		Analyzer Vents (4)	VOC	0.001	0.004	

FUG-V10F	General Fugitive (4)	VOC	75.12	329.13
DF-1301	Alcohol Tank	VOC	3.52	0.09
DF-1001	Fuel Oil Tank	VOC	1.70	4.15

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<u>Emission (1) Name (2)</u>	<u>Source Name (3)</u>	<u>lb/hr</u>	<u>TPY</u>	<u>Air Contaminant</u>	<u>Emission Rates</u>	<u>Point No.</u>
DF-701	Sodium Nitrite Solution Tank			VOC	2.60	0.11
DF-702	Sodium Nitrite Solution Tank			VOC	0.69	0.06
				Acetonitrile	0.69	0.055
DF-705	Sodium Nitrite Solution Tank			VOC	0.69	0.02
				Acetonitrile	0.69	0.005
AF-1215	Bleach Tank			NaOCl	0.04	0.005
DF-101	Decoke Stack			PM10	0.29	0.18
				VOC	0.20	0.97
				CO	61.00	12.30
DD-606	Hydrotreater Regeneration Stack			CO	10.00	1.40
				SO2	45.80	3.30
OF1SOVENT	Seal Oil Vents			VOC	0.30	0.10
DF-916	Lube Oil Storage			VOC	0.60	0.02
DF-502	Lube Oil Storage			VOC	0.71	0.20

- (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  
PM10 - particulate matter less than 10 microns  
VOC - volatile organic compounds as defined in General Rule 101.1  
NO2 - nitrogen dioxide  
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 365 Weeks/year 52 or Hrs/year \_\_\_\_\_

Dated \_\_\_\_\_