

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 329A

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 Name (2)	Air Contaminant Name (3)	<u>Emission Rates</u>	
			lb/hr	TPY**
FGBU01	Utilities Area Fugitives (4)	VOC	0.19	0.82
		HCl	0.32	1.39
		PM	0.14	0.04
		PM ₁₀	0.02	0.01
FGBU02	Loading Fugitives (4)	HCl	0.33	0.34
FGBU03	Abrasive Blasting Fugitives	PM	0.14	0.04
		PM ₁₀	0.02	0.01
GBD014 (5)	HCl Storage Tanks Scrubber	HCl	0.03	0.04
GBD022 (5)	HCl Loading Scrubber	HCl	0.06	0.07
GBD063 (5)	S5-T185 Spent Scrubber	Cl ₂	0.02	0.03
GBD069 (5)	T-704 Spent Scrubber Liquor Tank	Cl ₂	0.02	0.03
GBD075	Dachtal Emergency Diesel Tank	VOC	0.04	0.01
GBD076	Dacthal Emergency Diesel Generator	NO _x	6.63	0.59
		CO	1.43	0.13
		PM	0.47	0.04
		PM ₁₀	0.47	0.04
		VOC	0.53	0.05
		SO ₂	0.44	0.04
GBU007	Fire Water Pump Diesel Fuel Tank No. 2	VOC	0.03	0.01

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GBU008A	Fire Water Pump Diesel Fuel Tank No. 3	VOC	0.03	0.01
GBU008B	Fire Water Pump Diesel Fuel Tank No. 4	VOC	0.03	0.01
GBU008C	Fire Water Pump Diesel Fuel Tank No. 5	VOC	0.03	0.01
GBU025 (5)	Chlorine Unloading Scrubber	Cl ₂	0.15	0.01
GBU028 (5)	BFW HCl Storage Tank Scrubber	HCl	0.01	0.01
GBU035	Diesel Fire Water Pump No. 2	NO _x	6.20	0.31
		CO	1.34	0.07
		PM	0.44	0.02
		PM ₁₀	0.44	0.02
		VOC	0.49	0.02
		SO ₂	0.41	0.02
GBU036A	Diesel Fire Water Pump No. 3	NO _x	10.08	0.50
		CO	2.17	0.11
		PM	0.72	0.04
		PM ₁₀	0.72	0.04
		VOC	0.80	0.04
		SO ₂	0.67	0.03
GBU036B	Diesel Fire Water Pump No. 4	NO _x	13.18	0.66
		CO	2.84	0.14
		PM	0.94	0.05
		PM ₁₀	0.94	0.05
		VOC	1.05	0.05
		SO ₂	0.87	0.04
GBU036C	Diesel Fire Water Pump No. 5	NO _x	13.18	0.66
		CO	2.84	0.14
		PM	0.94	0.05
		PM ₁₀	0.94	0.05
		VOC	1.05	0.05

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GBU037 (5)	West Cooling Tower	SO ₂	0.87	0.04
		VOC	0.21	0.92
GBU041	Paint Area	VOC	92.40	6.65
		PM ₁₀	3.23	0.19
GBU042 (5)	QC Lab Hoods	VOC	0.20	0.80
GBU044 (5)	Formulations Cooling Tower	PM	0.11	0.47
		PM ₁₀	0.11	0.47
GBU048	Plant Diesel Tank	VOC	0.04	0.01
GBU049	Plant Gasoline Tank	VOC	10.79	0.27
GBU061	Abrasive Blasting Facility	PM	0.36	0.37
		PM ₁₀	0.04	0.04
GBU062	Industrial Water Emergency Diesel Generator	NO _x	11.16	0.56
		CO	2.40	0.12
		PM	0.79	0.04
		PM ₁₀	0.79	0.04
		VOC	0.89	0.04
		SO ₂	0.74	0.04
GBU063	Industrial Water Emergency Diesel Tank	VOC	0.01	0.01
GBU064 (5)	Sullair Cooling Tower	PM	0.01	0.06
		PM ₁₀	0.01	0.06
GBU065 (5)	Engr/Tech Bldg Lab Hoods	VOC	0.21	0.92

- (1) Emission point identification - either specific equipment designation or emission point number from a plot plan.
- (2) Specific point source names. For fugitive sources, use an area name or fugitive source name.
- (3) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
 NO_x - total oxides of nitrogen

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SO ₂	-	sulfur dioxide
PM	-	particulate matter, suspended in the atmosphere, including PM ₁₀ and PM _{2.5}
PM ₁₀	-	particulate matter equal to or less than 10 microns in diameter
PM _{2.5}	-	particulate matter equal to or less than 2.5 microns in diameter
CO	-	carbon monoxide
Cl ₂	-	chlorine gas
HCl	-	hydrogen chloride

- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) These facilities are authorized under Permit by Rule (PBR) and incorporated by reference only into this permit. The PBRs utilized for each source are listed below:

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EPN No.	Source Name	Contaminant Name	PBR Claimed
GBU025	Chlorine Unloading Scrubber	Cl ₂	106.262
GBU042	QC Lab Hoods	VOC	106.122
GBU037	West Cooling Tower	VOC	106.371
GBU044	Formulations Cooling Tower	PM PM ₁₀	SE8
GBU064	Sullair Cooling Tower	PM PM ₁₀	106.371
GBU065	Engr./Tech. Bldg. Lab Hoods	VOC	106.122
GBD014	HCl Storage Tanks Scrubber	HCl	SE 78
GBD022	HCl Loading Scrubber	HCl	106.472
GBU028	BFW HCl Storage Tank Scrubber	HCl	SE51
GBD063	S5-T185 Spent Scrubber Liquor Tank	Cl ₂	106.472
GBD069	T-704 Spent Scrubber Liquor Tank	Cl ₂	SE 51

** Compliance with annual emission limits is based on a rolling 12-month period.

Dated March 3, 2010