

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 4893A

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**
GBP004	Main Cold Stack	CO	2.40	0.30
		HCN	0.05	0.01
		NH ₃	1.50	1.00
		NO _x	0.05	0.04
		PM	0.15	0.03
		VOC	15.00	2.08
GBP005	South Dowtherm Vaporizer	CO	0.60	1.08
		NO _x	0.71	1.29
		PM ₁₀	0.05	0.10
		SO ₂	0.01	0.01
		VOC	0.04	0.07
GBP006	IPN Cooling Tower	VOC	0.01	0.01
GBP007	Exh.-Diesel, Generator	CO	2.50	0.07
		NO _x	11.60	0.30
		PM ₁₀	0.80	0.02
		SO ₂	0.80	0.02
		VOC	0.90	0.02
GBP008	Exh.-Diesel, Cooling Water Pump	CO	1.60	0.04
		NO _x	7.30	0.19
		PM ₁₀	0.50	0.01
		SO ₂	0.50	0.01
		VOC	0.50	0.02

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GBP013	North Dowtherm Vaporizer	CO	0.60	1.08
		NO _x	0.71	1.29
		PM ₁₀	0.05	0.10
		SO ₂	0.01	0.01
		VOC	0.04	0.01
GBP014	Emer. Generator Diesel Storage Tank	VOC	0.09	0.01
GBP016	Incinerator Stack	CO	9.90	39.00
		HCN	0.20	0.80
		NH ₃	0.40	1.70
		NO _x	44.60	90.00
		PM	1.00	3.90
		SO ₂	0.02	0.17
		VOC	2.10	7.60
GBP018	Dowtherm System Inerts Vent	VOC	0.04	< 0.01
GBP021	Catalyst Hopper Baghouse	PM	0.60	0.08
GBP022	Bleach Storage Tank	HCl	0.01	0.01
GBP024	200 Area Baghouse	NH ₃	2.00	4.56
		PM ₁₀	0.18	0.13
		VOC	1.50	2.19
GBP025	Incinerator BFW Treatment Tanks	VOC	0.01	0.01
GBP026	Cool TWR Water Treatment Chemical Tanks	VOC	0.01	0.01
GBP027	Cool TWR Water Pump Diesel Storage Tank	VOC	0.10	0.01
GBP028	BFW Treatment Chemicals Tank	VOC	0.01	0.01

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GBP029	Dissolving Tank Vent	VOC	2.00	0.27
GBP030	Carbon Adsorption System	VOC	0.01	0.04
GBP031	Heavy Ends Baghouse	PM ₁₀	0.35	1.53
		VOC	0.58	0.07
FGBP01	Process Fugitives (4)	NH ₃	0.18	0.83
		PM ₁₀	1.35	5.90
		VOC	2.06	9.07

Planned Maintenance, Startup, and Shutdown

GBP018	Dowtherm System	VOC	0.04	< 0.01
MGBP01-A	IPN Unit MSS Fugitives - Area A	CO	0.17	0.01
		NO _x	0.78	0.03
		PM ₁₀	1.73	0.19
		SO ₂	0.05	< 0.01
		VOC	0.36	< 0.01
MGBP01-B	IPN Unit MSS Fugitives - Area B	VOC	< 0.01	< 0.01
MGBP01-C	IPN Unit MSS Fugitives - Area C	CO	0.05	< 0.01
		NO _x	0.20	0.01
		PM ₁₀	0.02	< 0.01
		SO ₂	1.42	0.05
		VOC	< 0.01	< 0.01

(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) Exempt Solvent - Those carbon compounds or mixtures of carbon compounds used as solvents which

have been excluded from the definition of volatile organic compound.

VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1

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NO _x	-	total oxides of nitrogen
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
HCl	-	hydrogen chloride
HCN	-	hydrogen cyanide
NH ₃	-	ammonia

(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:

24 Hrs/day 7 Days/week 52 Weeks/year

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

Dated January 31, 2011