EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 2798

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 Ra	ates*
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY

Case 1: Firing process gas from the butadiene section of the No. 2 Olefins Unit, combined tail gas, and pipeline-quality natural gas.

DDB901A	No. 2 Olefins Unit Steam Boiler (388 MMBtu/hr)	NO_x CO SO_2 PM $PM (from SCR)**$ VOC $NH_3 (from SCR)**$	77.7 14.4 7.1 3.8 0.7 2.7 1.8
DDB901B	No. 2 Olefins Unit Steam Boiler (388 MMBtu/hr)	NO_x CO SO_2 PM $PM (from SCR)**$ VOC $NH_3 (from SCR)**$	77.7 14.4 7.1 3.8 0.7 2.7 1.8

Case 2: Co-firing fuel oil produced at the on-site No. 2 Olefins Unit and process gas from the butadiene section of the No. 2 Olefins Unit, combined tail gas, and pipeline-quality natural gas.

DDB901A	No. 2 Olefins Unit	NO_x	88.9
	Steam Boiler	CO	21.8
	(388 MMBtu/hr)	SO ₂	107.4
	,	PM	12.4
		PM (from SCR)**	11.1
		VOC	2.6

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission	Source	Air Contaminant	Emission	Rates*
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
		NH₃ (from SCR)**	1.8	
DDB901B	No. 2 Olefins Unit Steam Boiler (388 MMBtu/hr)	NO _x CO SO ₂ PM PM (from SCR)** VOC NH ₃ (from SCR)**	88.9 21.8 124.3 11.5 22.4 1.2 1.8	
Annual Emissions				
DDB901A	No. 2 Olefins Unit Steam Boiler (388 MMBtu/hr)	NO _x CO SO ₂ PM PM (from SCR)** VOC NH ₃ (from SCR)**	357.9 89.8 159.3 52.8 16.4 10.9 7.0	
DDB901B	No. 2 Olefins Unit Steam Boiler (388 MMBtu/hr)	NO_x CO SO_2 PM $PM (from SCR)**$ VOC $NH_3 (from SCR)**$	357.9 89.8 159.3 52.8 16.4 10.9 7.0	

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

(1)	Emission	n point identification - either specific equipment designation or emission point number
	from plo	t plan.
(2)	Specific	point source name. For fugitive sources use area name or fugitive source name.
(3)	PM -	particulate matter
	VOC -	volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1

 NO_x - total oxides of nitrogen

SO₂ - sulfur dioxide

CO - carbon monoxide

NH₃ - 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:

Like/dest	Dayahuaala	Maakakaar	or Hrs/year	0.760
Hrs/day	Days/week	Weeks/year _	or Hrs/vear	8 / NU
·······	Dayor Wook _		<u> </u>	$\frac{0,100}{}$

** Additional emissions during SCR operation. These emission rates are for representational purposes only. The emission rates of PM and NH₃ reflect emission rates authorized under Standard Permit Number 55980.

Dated	