EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Numbers 751 and PSD-TX-987

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)	Emission Rates * lb/hr	TPY **
35-HR-5	HR-I Preheater	NO_x	9.60	40.47
		SO_2 **(PSD)**	58.56***	130.76***
		CO 5.65	23.81	
		PM_{10} 0.51	2.15	
		VOC 0.37	1.56	
36-HR-5	HR-II Preheater	NO_x	9.60	40.47
		SO_2 **(PSD)**	58.56***	130.76***
		CO 5.65	23.81	
		PM_{10} 0.51	2.15	
		VOC 0.37	1.56	
38-HR-5	HR-III Preheater	NO_x	9.60	40.47
		SO_2 **(PSD)**	0.94	3.97
		CO 5.65	23.81	
		PM_{10} 0.51	2.15	
		VOC 0.37	1.56	
35-HR-11	HR-I Short Stack (Start-up Emissions)	NO_x	30.83	6.08
		SO_2 **(PSD)**	1.54	0.30
		CO 9.25	1.82	
		PM_{10} 0.84	0.16	
		VOC 0.61	0.12	
36-HR-11	HR-II Short Stack (Start-up Emissions)	NO_x	30.83	6.08
		SO_2 **(PSD)**	1.54	0.30
		CO 9.25	1.82	
		PM_{10} 0.84	0.16	
		VOC 0.61	0.12	

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	TPY **
38-HR-11	HR-III Short Stack (Start-up Emissions)	NO_x	30.83	6.08
		SO_2 **(PSD)**	1.54	0.30
		CO 9.25	1.82	
		PM_{10} 0.84	0.16	
		VOC 0.61	0.12	
HR-8	HR Davy Stack	H_2SO_4 **(PSD)**	28.13	98.55
		NO_x 66.11	242.50	
		SO_2 **(PSD)**	434.9	1769.6
		CO 5.25	18.4	
		PM_{10} 5.58	24.44	
		VOC 4.04	17.68	
TS-1	Test Stack for HR-1 Furnace (4)		NO_x	42.00
		3.02		
		CO 10.00	0.72	
96631	H_2SO_4 Tank	H_2SO_4 **(PSD)**	<0.01	<0.01
96632	H_2SO_4 Tank	H_2SO_4 **(PSD)**	<0.01	<0.01
35630	Primene Salt Tank	NH_3	0.14	0.001

(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) NO_x - total oxides of nitrogen
SO_2 - sulfur dioxide
CO - carbon monoxide
PM_{10} - particulate matter (PM) equal to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no particulate matter greater than 10 microns is emitted. PM_{10} does not include H_2SO_4 condensibles.
NH_3 - anhydrous ammonia
VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1.
H_2SO_4 - sulfuric acid

(4) This is a Test Stack for initial 15 day testing of HR-1 Furnace

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

* Emission rates are based on and the facilities are limited by the following maximum operating schedule:

Hrs/day ____ Days/week ____Weeks/year ____ or Hrs/year 8,760

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

*** Proposed SO_2 emissions from preheaters 35-HR-5 and 36-HR-5 are based on each firing the maximum quantity of B-3 flare gas. The allowable SO_2 emission rates listed in the table are not additive, but represent a combined maximum for both preheaters.

Dated August 6, 2004