# EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

# Permit Numbers 751 and PSDTX987

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, sources, and related activities. 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	Source Name (2)	Air Contaminant	Emission Rates	
No. (1)		Name (3)	lbs/hour	TPY (4)
35-HR-5	HR-I Preheater	NO <sub>x</sub>	9.60	40.47
		SO <sub>2</sub> (PSD)	58.56***	130.76***
		СО	5.65	23.81
		PM <sub>10</sub>	0.51	2.15
		VOC	0.37	1.56
36-HR-5	HR-II Preheater	NO <sub>x</sub>	9.60	40.47
		SO <sub>2</sub> (PSD)	58.56***	130.76***
		СО	5.65	23.81
		PM <sub>10</sub>	0.51	2.15
		VOC	0.37	1.56
38-HR-5	HR-III Preheater	NO <sub>x</sub>	9.60	40.47
		SO <sub>2</sub> (PSD)	*0.94-	*3.97-
		СО	5.65	23.81
		PM <sub>10</sub>	0.51	2.15
		VOC	0.37	1.56
35-HR-11	HR-I Short Stack	NO <sub>x</sub>	30.83	6.08
		SO <sub>2</sub> (PSD)	1.54	0.30
		СО	9.25	1.82
		PM <sub>10</sub>	0.84	0.16
		VOC	0.61	0.12

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36-HR-11	HR-II Short Stack	NO <sub>x</sub>	30.83	6.08
30-1111-11	TIN-II SHOIL SLACK		30.03	0.00
		SO <sub>2</sub> (PSD)	1.54	0.30
		СО	9.25	1.82
		PM <sub>10</sub>	0.84	0.16
		VOC	0.61	0.12
38-HR-11	HR-III Short Stack	NO <sub>x</sub>	30.83	6.08
		SO <sub>2</sub> (PSD)	1.54	0.30
		СО	9.25	1.82
		PM <sub>10</sub>	0.84	0.16
		VOC	0.61	0.12
HR-8	HR Davy Stack	H <sub>2</sub> SO <sub>4</sub> (PSD)	28.13	98.55
		NO <sub>x</sub>	66.11	242.50
		SO <sub>2</sub> (PSD)	434.9	1769.6
		СО	5.25	18.4
		PM <sub>10</sub>	5.58	24.44
		VOC	4.04	17.68
96631	H₂SO₄ Tank	H <sub>2</sub> SO <sub>4</sub> (PSD)	<0.01	<0.01
96632	H₂SO₄ Tank	H <sub>2</sub> SO <sub>4</sub> (PSD)	<0.01	<0.01
35630	Primene Salt Tank	NH <sub>3</sub>	0.14	0.001

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<sup>(1)</sup> Emission point identification - either specific equipment designation or emission point number from plot plan.

<sup>(2)</sup> Specific point source name. For fugitive sources, use area name or fugitive source name.

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(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

HRVOC - highly reactive volatile organic compounds as defined in 30 TAC § 115.10

IOC-U - inorganic compounds (unspeciated)

 $NO_x$  - total oxides of nitrogen

SO<sub>2</sub> - sulfur dioxide

PM - total particulate matter, suspended in the atmosphere, including PM<sub>10</sub> and PM<sub>2.5</sub>, as

represented

PM<sub>10</sub> - total particulate matter equal to or less than 10 microns in diameter, including PM<sub>2.5</sub>,

as represented

PM<sub>2.5</sub> - particulate matter equal to or less than 2.5 microns in diameter

CO - carbon monoxide

HAP - hazardous air pollutant as listed in § 112(b) of the Federal Clean Air Act or Title 40

Code of Federal Regulations Part 63, Subpart C

(4) Compliance with annual emission limits (tons per year) is based on a 12-month rolling period.

(5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.

Proposed SO<sub>2</sub> emissions from preheater 35-HR-5 and 36-HR-5 are based on each firing the maximum quantity of B-3 flare gas. The allowable SO<sub>2</sub> emission rates listed in the table are not additive, but represent a combined maximum for both preheaters.

\* HR III preheater does not accept B3 flare gas; therefore, the SO<sub>2</sub> emissions are not the same from the HR III preheater as HR I and HR II.

Date:			