## Permit Numbers 144784 and PSDTX994M1

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 No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
(-)		(5)	lbs/hour	TPY (4)
		Routine Emissions		
B72SH1	Pyrolysis Furnace H1	со	45.27	-
		NO <sub>x</sub>	30.86	-
		SO <sub>2</sub>	65.90	-
		РМ	5.42	-
B72SH2		voc	1.22	-
		Pb	<0.01	-
		Hg	<0.01	-
	Pyrolysis Furnace H2	со	45.27	-
		NO <sub>x</sub>	30.86	-
		SO <sub>2</sub>	65.90	-
		РМ	5.42	-
		voc	1.22	-
		Pb	<0.01	-
		Hg	<0.01	-

B72SH3       Pyrolysis Furnace H3       CO       45.27       -         NO₂       30.86       -         SO₂       65.90       -         PM       5.42       -         VOC       1.22       -         Pb       <0.01       -         Hg       <0.01       -         R72SH4       Pyrolysis Furnace H4       CO       45.27       -         NO₂       30.86       -       -         PM       5.42       -       -         VOC       1.22       -       -         Pb       <0.01       -       -         Hg       <0.01       -       -         NO₂       30.86       -       -         NO₂       30.86       -       -         NO₂       30.86       -       -         NO₂       30.86       -       -         NO₂       65.90       -       -         PM       5.42       -       -         VOC       1.22       -       -         PM       5.42       -       -         VOC       1.22       -       -         Pb <th></th> <th></th> <th></th> <th></th> <th></th>					
SO <sub>2</sub> 65.90  PM 5.42  VOC 1.22  Pb <	B72SH3	Pyrolysis Furnace H3	СО	45.27	-
PM   5.42   -			NO <sub>x</sub>	30.86	-
VOC 1.22 - Pb			SO <sub>2</sub>	65.90	-
Pb   <0.01   -			PM	5.42	-
B72SH4 Pyrolysis Furnace H4 CO 45.27			voc	1.22	-
B72SH4			Pb	<0.01	-
NO <sub>x</sub>   30.86   -			Hg	<0.01	-
SO <sub>2</sub> 65.90 -  PM 5.42 -  VOC 1.22 -  Pb < 0.01 -  Hg < 0.01 -  B72SH5 Pyrolysis Furnace H5 CO 45.27 -  NO <sub>x</sub> 30.86 -  SO <sub>2</sub> 65.90 -  PM 5.42 -  VOC 1.22 -  Hg < 0.01 -  Furnace Source Group CO -  B72SH1, B72SH2, Furnace Source Group CO -  B72SH2, Furnace Source Group C	B72SH4	Pyrolysis Furnace H4	со	45.27	-
PM 5.42 -  VOC 1.22 -  Pb < 0.01 -  Hg < 0.01 -  Hg < 0.01 -  NO <sub>x</sub> 30.86 -  SO <sub>2</sub> 65.90 -  PM 5.42 -  VOC 1.22 -  PM 5.42 -  Hg < 0.01 -  FM 5.42 -  PM 65.45 -  PM 60.01 -  PM 60			NO <sub>x</sub>	30.86	-
VOC 1.22 - Pb <0.01 - Hg <0.01 - Hg <0.01 -  NO <sub>x</sub> 30.86 - SO <sub>2</sub> 65.90 - PM 5.42 - VOC 1.22 - Pb <0.01 - Hg <0.01 - Friedrich Source Group CO			SO <sub>2</sub>	65.90	-
Pb < <0.01 - Hg <0.01 - Hg <0.01 - CO			PM	5.42	-
Hg < 0.01 -  B72SH5 Pyrolysis Furnace H5 CO			voc	1.22	-
B72SH5 Pyrolysis Furnace H5 CO 45.27 -  NO <sub>x</sub> 30.86 -  SO <sub>2</sub> 65.90 -  PM 5.42 -  VOC 1.22 -  Pb <0.01 -  Hg <0.01 -  B72SH1, B72SH2, Furnace Source Group CO - 158.65			Pb	<0.01	-
NO <sub>x</sub> 30.86 - SO <sub>2</sub> 65.90 - PM 5.42 - VOC 1.22 - Pb <0.01 - Hg <0.01 - B72SH1, B72SH2, Furnace Source Group CO - 158.65			Hg	<0.01	-
SO <sub>2</sub> 65.90 -  PM 5.42 -  VOC 1.22 -  Pb <0.01 -  Hg <0.01 -  B72SH1, B72SH2, Furnace Source Group CO - 158.65	B72SH5	Pyrolysis Furnace H5	со	45.27	-
PM 5.42 -  VOC 1.22 -  Pb <0.01 -  Hg <0.01 -  B72SH1, B72SH2, Furnace Source Group CO - 158 65			NO <sub>x</sub>	30.86	-
VOC 1.22 - Pb <0.01 - Hg <0.01 - B72SH1, B72SH2, Furnace Source Group CO - 158 65			SO <sub>2</sub>	65.90	-
Pb <0.01 - Hg <0.01 -  B72SH1, B72SH2, Furnace Source Group CO - 158 65			PM	5.42	-
Hg <0.01 -  B72SH1, B72SH2, Furnace Source Group CO - 158 65			voc	1.22	-
B72SH1, B72SH2, Furnace Source Group CO - 158 65			Pb	<0.01	-
B72SH1, B72SH2, Furnace Source Group CO - 158.65			Hg	<0.01	-
B72SH3, B72SH4,   Cap	B72SH1, B72SH2, B72SH3, B72SH4, B72SH5	Furnace Source Group Cap	со	-	158.65
B72SH5 NO <sub>x</sub> - 469.26			NO <sub>x</sub>	-	469.26
SO <sub>2</sub> - 9.87			SO <sub>2</sub>	-	9.87
PM - 98.90			PM	-	98.90
VOC - 22.21			voc	-	22.21

		Pb	-	0.01
		Hg	-	<0.01
B60F3	FS-1 Large Elevated Flare	со	38.89	-
		NO <sub>x</sub>	7.67	-
		SO <sub>2</sub>	0.77	-
		voc	32.27	-
B72F1	FS-2 Small Elevated Flare	со	4.97	-
		NO <sub>x</sub>	0.96	-
		SO <sub>2</sub>	0.93	-
		voc	0.70	-
B60F3, B72F1	Flare Source Group Cap	со	-	47.33
		NO <sub>x</sub>	-	9.11
		SO <sub>2</sub>	-	4.11
		voc	-	17.35
B72CT1	CT-1 Cooling Tower	voc	3.09	13.03
		PM	2.62	4.13
B72FU1	B-7200 Process Area Fugitives (5)	voc	23.66	38.16
	. ag.a. 66 (6)	Cl <sub>2</sub>	0.05	0.05
B72GE01	Emergency Generator	со	1.14	0.05
		NO <sub>x</sub>	2.87	0.14
		SO <sub>2</sub>	0.35	0.02
		PM	0.37	0.02
		voc	0.42	0.02
B72SC02	B-7202 Degreasing	VOC	0.31	1.34

Routine Emissions	s Compliance Cap	СО	236.34	197.5
		NO <sub>x</sub>	158.86	476.91
		SO <sub>2</sub>	96.1	11.75
		PM	22.05	73.62
		VOC	23.65	98.62
		Cl <sub>2</sub>	0.01	0.05
		HCI	-	-
		Pb	<0.01	<0.01
		Hg	<0.01	<0.01
	Maintenan	ce, Startup, and Sl	nutdown Emissions	
B60F3, B72F1	LHC-7 Flare System MSS Emissions	СО	1215.64	94.81
	Inde Emissions	NO <sub>x</sub>	170.59	14.55
		VOC	968.35	63.82
		VOC¹	250.00	-
B72SH1	Furnace Purge, H-1	VOC	0.01	<0.01
B72SH2	Furnace Purge, H-2	VOC	0.01	<0.01
B72SH3	Furnace Purge, H-3	VOC	0.01	<0.01
B72SH4	Furnace Purge, H-4	VOC	0.01	<0.01
B72SH5	Furnace Purge, H-5	VOC	0.01	<0.01

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

VOC¹ - Hourly emissions from LHC-7 ethylene drum flaring. Will not occur simultaneously with other

LHC-7 hourly start-up emissions.

CO carbon monoxide NO<sub>x</sub> - total oxides of nitrogen

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

PM - total particulate matter, suspended in the atmosphere, including  $PM_{10}$  and  $PM_{2.5}$ , as represented

(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.

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Emission Sources - Maximum Allowable Emission Rates