### Emission Sources, Emissions Caps, and Individual Maximum Allowable Emission Rates

### Flexible Permit Numbers 16989 and PSDTX794

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)			
Aromatics and Olefins Plant, Aromatics Unit (AU)					
Flare					
AUFLARE-1	AU Flare	CO, NO <sub>X</sub> , SO <sub>2</sub> , VOC, Benzene, Toluene			
Process Fugitive A	reas				
AUFUGS	AU Fugitives (5)	VOC, Benzene, Toluene			
Tanks					
AUT33979	Tank 33979	VOC			
AUT4881	Tank 4881	VOC			
AUT4882	Tank 4882	VOC			
AUT4883	Tank 4883	VOC			
AUT4884	Tank 4884	VOC, Benzene			
AUT4930	Tank 4930	VOC			
Aromatics and Olef	ins Plant, Cyclohexane Unit (CHXU)				
Process Fugitive A	reas				
CHXUFUGS	Cyclohexane Unit Fugitives (5)	VOC, Benzene			
Aromatics and Olef	Aromatics and Olefins Plant, Light Olefins Unit (LOU)				
Cooling Tower					
LOUCOOLTWR	LOU Cooling Tower	VOC, Benzene, Toluene, PM, PM <sub>10</sub> , PM <sub>2.5</sub>			
Flare	Flare				
LOUFLARE	LOU Elevated Flare	CO, NO <sub>X</sub> , SO <sub>2</sub> , VOC, Benzene, Toluene			
Process Fugitive A	Process Fugitive Areas				
LOUFUGS	LOU Fugitives (5)	VOC, Benzene, Toluene			
Combustion Sources					
LOUBOILER1	Cracking Furnace A	CO, NO <sub>X</sub> , PM, PM <sub>10</sub> , PM <sub>2.5</sub> , SO <sub>2</sub> , VOC			

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)			
LOUBOILER2	Cracking Furnace B	CO, NO <sub>X</sub> , PM, PM <sub>10</sub> , PM <sub>2.5</sub> , SO <sub>2</sub> , VOC			
LOUBOILER3	Cracking Furnace C	CO, NO <sub>X</sub> , PM, PM <sub>10</sub> , PM <sub>2.5</sub> , SO <sub>2</sub> , VOC			
LOUBOILER4	Cracking Furnace D	CO, NO <sub>X</sub> , PM, PM <sub>10</sub> , PM <sub>2.5</sub> , SO <sub>2</sub> , VOC			
LOUBOILER5	Cracking Furnace E	CO, NO <sub>X</sub> , PM, PM <sub>10</sub> , PM <sub>2.5</sub> , SO <sub>2</sub> , VOC			
LOUBOILER6	Cracking Furnace F	CO, NO <sub>X</sub> , PM, PM <sub>10</sub> , PM <sub>2.5</sub> , SO <sub>2</sub> , VOC			
LOUBOILER7	Cracking Furnace G	CO, NO <sub>X</sub> , PM, PM <sub>10</sub> , PM <sub>2.5</sub> , SO <sub>2</sub> , VOC			
LOUBOILER8	Ethane Cracking Furnace	CO, NO <sub>X</sub> , PM, PM <sub>10</sub> , PM <sub>2.5</sub> , SO <sub>2</sub> , VOC			
LOUBOILER9	Superheater A	CO, NO <sub>X</sub> , PM, PM <sub>10</sub> , PM <sub>2.5</sub> , SO <sub>2</sub> , VOC			
LOUBOILR10	Superheater B	CO, NO <sub>X</sub> , PM, PM <sub>10</sub> , PM <sub>2.5</sub> , SO <sub>2</sub> , VOC			
LOUBOILR11	Cracking Furnace H	CO, NO <sub>X</sub> , PM, PM <sub>10</sub> , PM <sub>2.5</sub> , SO <sub>2</sub> , VOC			
LOUHEATER1	GHU Regeneration Heater	CO, NO <sub>X</sub> , PM, PM <sub>10</sub> , PM <sub>2.5</sub> , SO <sub>2</sub> , VOC			
Loading	Loading				
LOUPFOLR	LOU Loading Rack	VOC, Benzene, Toluene			
Miscellaneous Sou	irces				
ABRSVCLEAN	Abrasive Blasting Area	PM, PM <sub>10</sub> , PM <sub>2.5</sub>			
AOMPANTFUG	Plant Painting Operations	VOC			
LOUAPIVO	API Regenerative Thermal Oxidizer (RTO)	CO, NO <sub>X</sub> , PM, PM <sub>10</sub> , PM <sub>2.5</sub> , SO <sub>2</sub> , VOC, Benzene, Toluene			
LOUVENTDD1	LOU Decoking Drum No. 1	CO, PM, PM <sub>10</sub> , PM <sub>2.5</sub>			
LOUVENTDD2	LOU Decoking Drum No. 2	CO, PM, PM <sub>10</sub> , PM <sub>2.5</sub>			
LOUCARBON1	API Carbon Adsorption System	VOC, Benzene			
AOARVS	Analyzer, Atmospheric Reference Valve	VOC, Benzene, Toluene			
Tanks					
10T-113	Tank 113	voc			
10T-114	Tank 114	voc			
LOUT1596	Tank 1596	VOC, Benzene, Toluene			
LOUT1597	Tank 1597	VOC, Benzene, Toluene			

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)		
LOUT33752	Tank 33752	VOC, Benzene		
LOUT33753	Tank 33753	VOC, Benzene		
LOUT33755	Tank 33755	VOC, Benzene, Toluene		
LOUT33756	Tank 33756	VOC, Benzene, Toluene		
LOUT33758	Tank 33758	VOC, Benzene, Toluene		
LOUT33759	Tank 33759	VOC, Benzene		
LOUT33760	Tank 33760	VOC, Benzene, Toluene		
Aromatics and Olefins Plant, Miscellaneous Sources				
Miscellaneous Chemical Storage Tanks (6)		VOC		
Diesel Internal Combustion Engines (6)		CO, NO <sub>X</sub> , PM, PM <sub>10</sub> , PM <sub>2.5</sub> , SO <sub>2</sub> , VOC		
EMISSION CAPS		Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
		СО	394.34	912.43
		NO <sub>X</sub>	352.16	866.35
		PM	31.50	90.45
		PM <sub>10</sub>	31.41	90.04
		PM <sub>2.5</sub>	31.12	88.78
		so <sub>2</sub>	185.49	197.47
		VOC	242.4	452.6
		Benzene (9)	16.77	41.66
		Toluene (9)	8.92	8.39

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
Planned Maintenar	nce, Startup and Shutdown (MSS)	Emission Limits		
	LOU FLARE	VOC (7)	585.90	49.20
		VOC (8)	3012.99	4.94
		Benzene (9)	299.30	2.24
MSSLOUFLARE		NO <sub>X</sub> (7)	58.83	5.27
		NO <sub>X</sub> (8)	1251.90	7.16
		CO (7)	117.45	36.04
		CO (8)	2499.26	14.30
	AU FLARE	VOC (7)	414.74	0.92
MSSAUSFLARE		VOC (8)	0.01	0.01
		Benzene (9)	109.14	0.31
		NO <sub>X</sub> (7)	75.69	0.11
		NO <sub>X</sub> (8)	26.52	0.08
		CO (7)	151.10	0.22
		CO (8)	52.95	0.16
MSSRTO	Thermal Oxidizer	VOC	0.73	0.07
		Benzene (9)	0.73	0.07
		NO <sub>X</sub>	2.22	0.27
		со	1.48	0.18
		РМ	0.02	0.01
		PM <sub>10</sub>	0.01	0.01
		PM <sub>2.5</sub>	0.01	0.01
		so <sub>2</sub>	0.03	0.01

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
MSSFUG	Fugitive Emissions (5)	VOC	77.75	4.14
		Benzene (9)	0.90	0.08
		NO <sub>X</sub>	45.19	6.31
		СО	83.09	7.26
		PM	90.34	1.14
		PM <sub>10</sub>	81.34	1.10
		PM <sub>2.5</sub>	81.34	1.10
		so <sub>2</sub>	2.77	0.42

- (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

NO<sub>x</sub> - 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  $\ensuremath{\mathsf{PM}}_{2.5},$  as

## represented

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

- (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.
- (6) Miscellaneous sources are identified and listed in Appendix B to Attachment D Emission Caps Compliance Plan of the permit.
- (7) Planned Maintenance, Startup, and Shutdown (MSS) Emissions as described in the permit Special Condition numbers 36 through 52 and Attachments A, B, and C.
- (8) LOU Startup emissions may occur for 73 hours annually.
- (9) Total VOC allowable emissions include benzene and toluene.

Date: January 17, 2023