EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 1176

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)					
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<u>Paraxylene Un</u>	<u>ıt 2</u>				
HF-451	H-1101 150.0 MM Btu/hr Isomerization Heater	VOC NOX SO2 PM CO	0.4 21.5 0.4 0.6 5.4	1.9 94.1 1.8 2.7 23.5	
HF-452	H-1102 217.0 MM Btu/hr Stabilization Tower Reboiler	VOC NOx SO2 PM CO	0.6 31.1 0.6 0.9 7.8	2.7 136.2 2.6 3.9 34.0	
HF-453**	H-1103 116.0 MM Btu/hr Xylene Tower Reboiler	VOC NOx SO2 PM CO	0.3 16.6 0.3 0.5 4.2	1.5 72.8 1.4 2.1 18.2	
HF-453**	H-1104 15.0 MM Btu/hr Rerun Tower Reboiler	VOC NOx SO2 PM CO	0.04 2.15 0.04 0.06 0.54	0.2 9.4 0.2 0.3 2.4	
ST-451	Tank F-1117	VOC	0.3	0.7	
ST-452	Tank F-1111 (6)	VOC	23.1	2.4	
ST-453	Tank F-1112 (6)	VOC	23.1	2.4	
ST-454	Tank F-1113	VOC	0.08	0.2	

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Air Contaminant Name (2) Name (3)	Emission Rates* lb/hr TPY		
ST-455	Tank F-1114	VOC	0.06	0.1
ST-457	Tank F-1118	VOC	0.4	0.6
CT-451	Cooling Tower (4)	VOC	0.2	0.9
S-451	API Separator	VOC	1.1	4.5
Paraxylene Un	it 2 (continued)			
FU-451	Fugitives (4)	VOC	12.6	55.3
FL-401	Flare M-301 (5)	VOC NOx CO	2.1 2.5 12.6	9.1 10.8 55.1
LPV-452	Regeneration Vent	VOC	<0.01	0.01
Paraxylene Un	<u>it 1</u>			
HF-201	H-101 95.0 MM Btu/hr Isomerization Heater	VOC NOx SO2 PM CO	0.2 11.7 0.2 0.3 2.9	1.0 51.1 1.0 1.5 12.8
HF-202	H-102 127.2 MM Btu/hr Stabilizer Tower Reboiler	VOC NOx SO2 PM CO	0.3 15.6 0.3 0.4 3.9	1.4 68.4 1.3 2.0 17.1
HF-203**	H-103 114.5 MM Btu/hr Xylene Tower Reboiler	VOC NOx SO2 PM CO	0.3 14.1 0.3 0.4 3.5	1.2 61.6 1.2 1.8 15.4
HF-203**	H-104 10.3 MM Btu/hr Rerun Tower Reboiler	VOC NOx SO2	0.03 1.27 0.02	0.1 5.5 0.1

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emiss lb/hr	ion Rates* TPY		
				PM CO	0.04 0.32	0.2 1.4
ST-201	Tar	nk F-111 (6)		VOC	44.3	1.9
ST-202	Tar	nk F-112 (6)		VOC	38.6	1.9
ST-203	Tar	nk F-113		VOC	0.03	0.1
ST-204	Tar	nk F-114		VOC	0.03	0.1
ST-205	Tar	nk F-115		VOC	0.2	0.1
ST-206	Tar	nk F-117		VOC	0.2	0.6
<u>Paraxylene Un</u>	<u>it 1</u> (continued)				
ST-207	Tar	nk F-118		VOC	0.2	0.6
ST-208	Tar	nk F-120		VOC	0.02	<0.01
ST-209	Tar	nk F-121		VOC	40.7	11.2
FS-201	AP	Separator		VOC	1.0	3.6
FU-201	Fuç	gitives (4)		VOC	12.3	53.9
FL-201	Fla	re M-1501 (5)		VOC NOx	8.1 3.4	35.6 14.7
				СО	17.1	75.0
SP-201	Tru	ck Loading Rack		VOC	10.1	0.53
Light Aromatics Fractionation/Toluene Disproportionation Unit:						
F-204		601 10.0 MM Btu/hr AF/TDP Furnace		VOC NOx SO2 PM CO	0.03 1.23 0.02 0.04 0.31	0.1 5.4 0.1 0.2 1.3

FU-210	Fugitives (4)	VOC	1.1	4.9
ST-210	Tank F-116	VOC	0.1	0.4
Paraxylene Unit 3				
ST-2118	Tank F-2118	VOC	0.4	0.6
ST-2113	Tank F-2113	VOC	0.2	0.5
FU-551	Fugitives (4)	VOC	3.1	13.5
FL-351	Flare M-117 (5)	VOC NOx CO	0.3 0.04 0.2	1.1 0.2 0.9
CT-351	Cooling Tower (4)	VOC	0.3	1.3

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

- (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 General Rule 101.1
 - NOx total oxides of nitrogen
 - SO2 sulfur dioxide
 - PM particulate matter
 - CO carbon monoxide
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) Emissions for anticipated routine abatement. Does not include upset conditions.
- (6) Tanks F-1111 and F-1112 are not filled simultaneously. Tanks F-111 and F-112 are not filled simultaneously.
 - * Emission rates are based on and the facilities are limited by the following maximum operating schedule: Hrs/year_8,760_
- ** A common stack is used.