EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 21865

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
	Emissions Allowables Prior to Completion of MPP 3d Cell Project			
MPP-9	Tank T-813	DTBP	0.005	0.020
MPP-19	Product Packout and Comfort Ventilation	Acid Chloride	0.001	0.001
		Alcohols	0.047	0.011
		Chloroformate	0.001	0.001
		Diluent	0.059	0.075
		Ketone	0.003	0.004
		TBHP	0.008	0.006
		TAHP	0.342	0.272
		Organic Peroxides	0.010	0.007
		DIB	0.380	0.015
		DTBP	0.949	0.030
MPP-25	Cabinet V-107	PM	0.18	0.12
MPP-26	V. Pump P-106	PM	0.33	0.22
MPP-27	Cabinets V-204	PM	0.36	0.10
MPP-28	Tank T-205	Organic Acid	0.16	0.03
MPP-29	Acid Storage Tank	H_2SO_4	<0.001	<0.001
MPP-30	Tank T-1101	Ethylene Glycol	<0.001	<0.001

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
MPP-31	Tank T-203	H_2SO_4	<0.001	<0.001

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
MPP-38	Caustic Scrubber A-1201	Acid Chloride/ Chloroformate	0.057	0.024
		Alcohols	0.382	0.405
		Diluent	0.954	1.232
		Hydrogen Peroxide	0.004	0.001
		Ketone	0.177	0.256
		TBHP	0.118	0.228
		TAHP	0.077	0.059
		Organic Peroxide	0.374	1.109
		DTBP	1.812	3.030
		DTAP	0.272	0.016
		DIB	0.286	0.594
		Isoamylene	4.12	0.331
		Cyclic Ether	0.057	0.054
		Cyclic Peroxide	0.039	0.034
MPP-FUG	Fugitives (4)	VOC	0.81	2.61

Emissions Caps Following the Completion of MPP 3d Cell Project

ORGANIC HYDROPEROXIDES EMISSION CAP

MPP-37	Wastewater Tank	0.115	0.257
MPP-39	Thermal Oxidizer		

ORGANIC PEROXIDES EMISSION CAP

MPP-37	Wastewater Tank	0.706	1.79
MPP-39	Thermal Oxidizer		

CYCLIC PEROXIDES EMISSION CAP

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
MPP-39	Thermal Oxidizer		0.001	0.001

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
		DTBP EMISSION CAP		
MPP-9	Tank T-813		0.605	0.105
MPP-37	Wastewater Tank			
MPP-39	Thermal Oxidizer			
		ALCOHOLS EMISSION CAP		
MPP-37	Wastewater Tank		0.194	0.455
MPP-39	Thermal Oxidizer			
		DILUENTS EMISSION CAP		
MPP-37	Wastewater Tank		1.375	1.140
MPP-39	Thermal Oxidizer			
		CYCLIC ETHERS EMISSION CAP		
MPP-37	Wastewater Tank		0.012	0.004
MPP-39	Thermal Oxidizer			
		KETONES EMISSION CAP		
MPP-37	Wastewater Tank		0.007	0.014
MPP-39	Thermal Oxidizer			
		PM EMISSION CAP		

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
MPP-25	Cabinets V-107 and V-108		0.963	0.629

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
MPP-26	V. Pump P-106			
MPP-27	Cabinets V-204 and V-208			
MPP-39	Thermal Oxidizer			
	Miscellaneous Emission Allowables Following the Completion of MPP 3d Cell Project			
MPP-28	Tank T-205	Organic Acid	0.174	0.058
MPP-29	Acid Storage Tank	H_2SO_4	<0.001	<0.001
MPP-30	Tank T-1101	Ethylene Glycol	<0.001	<0.001
MPP-31	Tank T-203	H_2SO_4	<0.001	<0.001
MPP-39	Thermal Oxidizer	Acid Chloride	0.050	0.047
		Chloroformate	0.001	0.001
		Cumene	0.002	0.003
		Acetic Anhydride	0.014	0.018
		DIB	0.007	0.013
		Isoamylene	0.089	0.008
		SO_2	0.001	0.002
		NO_x	0.100	0.439
		CO	0.021	0.093
		TOC	0.005	0.023
		HCl	0.747	0.706
FUG	Fugitives (4)	VOC	0.844	6.334

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

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

(2) Specific point source name. For fugitive sources use area name or fugitive source name.

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

(3) DTBP - ditertiary butyl peroxide
TBHP - tertiary butyl hydro peroxide
TAHP - tertiary amyl hydro peroxide
DIB - diisobutylene
DTAP - ditertiary amyl peroxide
PM - particulate matter, suspended in the atmosphere, including PM_{10}.
PM_{10} - particulate matter 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.
H_2SO_4 - sulfuric acid
VOC - volatile organic compounds as defined in General Rule 101.1
SO_2 - sulfur dioxide
NO_x - total oxides of nitrogen
CO - carbon monoxide
TOC - total organic carbon from combustion of natural gas
HCl - hydrogen chloride

(4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.

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

_____Hrs/day _____Days/week _____Weeks/year or 8,760 Hrs/year

Dated _____