EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 31510

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 *	Source	Air Contaminant	<u>Emissio</u>	n Rates
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
	<u>M</u>	-2 Production Unit		
T25	T-25 OMS	VOC	0.17	0.03
T8500	T-8500	VOC	0.01	0.02
Т9000	T-9000	VOC	0.01	0.02
T9100	T-9100	VOC	0.01	0.02
T9200	T-9200	VOC	0.01	0.02
Т6	T-6	H_2O_2	0.06	0.01
T11	T-11	H_2O_2	0.06	0.01
T24	T-24	VOC	< 0.01	< 0.01
CC32	CC-32 (5)	VOC	0.01	<0.01
C1	C-1 Vent Scrubber	VOC	0.10	0.01
C1	C-1 Vent Scrubber (6)) VOC	0.11	0.01
C813	C-813 Acid Chloride Vent Scrubber	VOC	0.51	0.05

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES AIR CONTAMINANTS DATA

Emission	Source A	ir Contaminant	<u>Emissic</u>	n Rates
<u>*</u> Point No. (1)	Name (2)	Name (3)	<u>lb/hr</u>	TPY
CT1	Cooling Tower	VOC	<0.001	< 0.001
M2PKG	M-2 Packaging (4)	VOC	0.31	0.86
Q8000	M-2 Scrubber	VOC	1.20	5.24
M2SS	M-2 Storage Fugitives S	South (4) 0.68	VOC	0.16
M2SN	M-2 Storage Fugitives N	North (4) 0.68	VOC	0.16
M2RS	M-2 Reactor Room South	(4) 1.17	VOC	0.24
M2RM	M-2 Reactor Room Middle	e (4) 1.17	VOC	0.24
M2RN	M-2 Reactor Room North	VOC	0.24	1.17
C7000	M-2 Centrifuges	VOC	<0.01	<0.01
T5050	T-5050	NaOH	<0.001	<0.001
T7050	T-7050	Sodium Sulfate	<0.001	<0.001
T7080	T-7080	Sodium Sulfate	<0.001	<0.001
T7500	T-7500	Sodium Sulfate	<0.001	<0.001
T7510	T-7510	Sodium Sulfate	<0.001	<0.001
Т5	T-5	Tert-Butyl ydroperoxide	1.07	0.53

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES AIR CONTAMINANTS DATA

Emission <u>*</u>	Source	Ai	r Contaminant	<u>Emissi</u>	on Rates
Point No. (1)	Name (2)		Name (3)	lb/hr	TPY
Т9	T-9		КОН	<0.01	<0.01
T10	T-10		NaOH	<0.01	<0.01
Т39	T-39	Ну	Cumene droperoxide	0.12	0.02
T130	T-130		t-Amyl Hydroperox 0.02	ride	0.06
T150	T-150		Butyl Benzyl Phth <0.001	nalate	<0.001
T9500	T-9500		Ethylene Glycol	<0.001	<0.001
		<u>M-1</u>	Production Unit		
80-Q-2	Scrubber		VOC HC1	1.20 <0.01	5.24 <0.01
FUG-M-1	M-1 Unit Fugitives	(4)	VOC HC1	1.52 <0.01	6.67 <0.01
		<u>B-1</u>	Production Unit		
D-201	Reactor		VOC H_2SO_4 H_2O_2	0.363 <0.001 0.062	0.252 <0.002 0.044
D-202	Reactor		VOC H_2SO_4 H_2O_2	0.363 <0.001 0.062	(5) (5) (5)
F-311	Wash Tank		VOC	0.165	0.116
F-312	Wash Tank		VOC	0.165	(6)

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EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission <u>*</u>	Source	Air Contaminant	<u>Emission Rates</u>		
Point No. (1)	Name (2)	Name (3)	1b/hr	TPY	
F-1	Flare	VOC NO_x SO_2 CO	8.10 0.423 0.030 3.63	4.06 0.503 0.037 4.32	
B-1 Packing	DTAP Packaging	VOC	0.296	0.044	
DTAP Fugitives	DTAP Fugitives (4)	VOC	0.304	1.33	

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

F-203	H₂O₂ Weigh Tank	H_2O_2	0.30	0.02
F-204	Tertiary Amyl Alcohol Weigh Tank	VOC	2.30	0.092
B530	Boiler	VOC NO_x CO SO_2 PM_{10}		

- (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

KOH - potassium hydroxide

H₂O₂ - hydrogen peroxide

NaOH - sodium hydroxide

- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) Emissions from the carbon canisters prior to routing Tank 32 to Emission Point No. (EPN) C1.
- (6) Emissions after Tank 32 is removed from the Carbon Adsorption Unit (EPN CC32) and re-routed to the C-1 Vent Scrubber.
- (7) Total annual emissions for EPN D-201/202 shall not exceed the annual rate listed for EPN D-201.
- (8) Total annual emissions for EPN F-311/312 shall not exceed the annual rate listed for EPN F-311.

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

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	EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES
Hrs/day	Days/weekWeeks/year or <u>8,760</u> Hrs/year
	Dated

Permit No. 20458