

## EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 21233

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
12-19 FUG	Fugitives (4)	VOC	9.6	2.80
SROTOCLONE	South Rotoclone	VOC	10.3	1.45
		PM	0.10	<0.10
NROTOCLONE	North Rotoclone	VOC	67.0	11.25
		PM	0.10	<0.10

#### Building 11-36 H.E. Synthesis Facility

(Effective until Building 11-55 H.E. Synthesis Facility is fully operational. Deleted upon full operations at Building 11-55.)

Scrubber	Vent Scrubber	VOC	52.00	4.50
		PM	0.10	<0.10

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DATA		AIR	CONTAMINANTS	
<u>Emission Rates *</u>	Source	Air Contaminant	<u>Emission</u>	
<u>Point No. (1)</u>	<u>Name (2)</u>	<u>Name (3)</u>	<u>lb/hr</u>	
	<u>TPY</u>			
FLRSWP	Floor Sweeps	VOC	4.10	0.30
VACKST	Vacuum Pump Exhaust	VOC	2.55	<0.10
MT	Measuring Tank	VOC	0.55	<0.10
WT 1	Waste Trailer 1	VOC	1.20	<0.10
WT 2	Waste Trailer 2	VOC	1.20	<0.10
WT 3	Waste Trailer 3	VOC	1.20	<0.10
WT 4	Waste Trailer 4	VOC	1.20	<0.10

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## AIR CONTAMINANTS DATA

Emission *	Source	Air Contaminant	Emission	Rates
Point No. (1)	Name (2)	Name (3)	lb/hrTPY	
<u>Building 11-55 H.E. Synthesis Facility</u>				
PS1	Dust Collector 1 Stack	VOC	17.10	3.97 (5)
		NO <sub>x</sub>	0.70	0.22 (5)
		SO <sub>3</sub>	0.10	0.10 (5)
		CO	0.64	0.21 (5)
		NH <sub>3</sub>	7.50	2.53 (5)
		HCl	0.10	0.10 (5)
		HCN	0.24	0.08 (5)
		Nitric Acid	1.00	<0.01 (5)
		Nitrous Oxide	8.70	2.78 (5)
PS2	Dust Collector 2 Stack	VOC	17.10	
		NO <sub>x</sub>	0.70	
		SO <sub>3</sub>	0.10	
		CO	0.64	
		NH <sub>3</sub>	7.50	
		HCl	0.10	
		HCN	0.24	
		Nitric Acid	1.00	
		Nitrous Oxide	8.70	
PS3	Dust Collector 3 Stack	VOC	4.60	0.22
		NO <sub>x</sub>	0.11	0.01
		SO <sub>3</sub>	0.10	<0.01
		CO	<0.01	<0.01
		NH <sub>3</sub>	0.10	0.13
		HCl	0.10	0.10
		HCN	<0.01	<0.01
		Nitric Acid	0.05	<0.01
		Nitrous Oxide	0.11	0.04

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Emission *	Source	Air Contaminant	<u>Emission Rates</u>	
<u>Point No. (1)</u>	<u>Name (2)</u>	<u>Name (3)</u>	<u>lb/hrTPY</u>	
PS4	Condenser Stack	VOC	9.10	0.24
		NO <sub>x</sub>	0.30	0.50
		SO <sub>3</sub>	0.50	<0.01
		CO	0.15	0.05
		NH <sub>3</sub>	2.00	0.69
		HCl	0.10	0.10
		HCN	0.06	0.02
		Nitric Acid	0.50	<0.01
		Nitrous Oxide	2.07	0.66
		Acetone	4.00	0.14
Tanks	DPM Storage Tanks	VOC	12.20	0.80
	TK1	NH <sub>3</sub>	0.06	<0.01
	TK2	Acetone	0.06	<0.01
	TK3			
	TK4			
SEG	Diesel Generator	VOC	<0.10	<0.10
		PM	<0.10	<0.10
		CO	0.10	<0.10
		NO <sub>x</sub>	0.50	<0.10
		Aldehydes	<0.10	<0.10
		SO <sub>2</sub>	<0.10	<0.10
VPC	Vacuum Pump Condensate	VOC	<0.10	<0.01
Com Fug	Fugitives (4)	VOC	0.39	0.40
		NH <sub>3</sub>	0.01	<0.01
		HCl	<0.01	<0.01
		Acetone	0.17	0.18
		Nitric Acid	0.02	<0.01
		Sulfuric Acid	0.06	<0.01

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Emission *	Source	Air Contaminant	Emission Rates
Point No. (1)	Name (2)	Name (3)	lb/hrTPY

Firing Site 21

FS-21	Firing Site 21	VOC	131.00	0.76
		PM	97.60	0.51
		NH <sub>3</sub>	<0.01	<0.01
		CO	716.00	3.65
		Cl <sub>2</sub>	12.00	0.40
		HCl	24.00	0.80
		HCN	<0.01	<0.01
		HF	23.70	0.20
		Nitrous Oxide	0.02	<0.01
NO <sub>x</sub>	50.10	0.38		

(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) NH<sub>3</sub> - ammonia

CO - carbon monoxide

HCl - hydrogen chloride

NO<sub>x</sub> - total oxides of nitrogen

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

SO<sub>3</sub> - sulfur trioxide

VOC - volatile organic compounds as defined in General Rule 101.1

PM - particulate matter

HCN - hydrogen cyanide

HF - hydrogen fluoride

Cl<sub>2</sub> - chlorine

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

(5) Combined tons-per-year emissions from PS1 and PS2.

\* Emission rates are based on and the facilities are limited by the following maximum operating schedule, per year, per facility:

Hrs/day \_\_\_\_\_ Days/week \_\_\_\_\_ Weeks/year \_\_\_\_\_ or Hrs/year 8,760

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AIR CONTAMINANTS DATA

Emission * <u>Point No. (1)</u>	Source <u>Name (2)</u>	Air Contaminant <u>Name (3)</u>	<u>Emission Rates</u> <u>lb/hrTPY</u>
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Dated\_\_\_\_\_