

## EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 6754A

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
ANALYZ-53	12 Oxygen Analyzers	VOC	0.15	0.65
BL4407	PBS-4 Dryer Exhaust Filter 13.60		PM <sub>10</sub>	3.20
BL4608/1	PBS-1 Dryer Exhaust Filter 8.13		PM <sub>10</sub>	1.92
BL4608/2	PBS-1 Dryer Exhaust Filter 8.13		PM <sub>10</sub>	1.92
BLDGVENT	Ventilation Fan Exhaust (5) 2.37		NH <sub>3</sub>	0.54
C1282	Wet Scrubber Blower Exhaust 16.00		PM <sub>10</sub>	4.38
		VOC	0.73	2.68
A097-CAS	A097 CAS Vent	VOC	2.39	10.48
A079-CAS	A079 CAS Vent	VOC	2.40	5.90
DISTIL-AO	4 Distillation Column Steam 0.05 Vacuum Jets		VOC	0.01
DRUMBLDG	Drum Loading Building	H <sub>2</sub> O <sub>2</sub>	0.061	0.039
EGTKS	Electronic Grade H <sub>2</sub> O <sub>2</sub>	H <sub>2</sub> O <sub>2</sub>	0.002	0.010

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Emission *	Source	Air Contaminant	Emission Rates	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
Facilities (6)				
F1102/3	Cyclone Vent Filter	PM <sub>10</sub>	<0.01	<0.01
F1102/4	Silo Vent Filter	PM <sub>10</sub>	<0.01	<0.01
F4104	Borax Vacuum Filter Exhaust 0.30		PM <sub>10</sub>	0.30
LOADRACK	H <sub>2</sub> O <sub>2</sub> Loading Rack	H <sub>2</sub> O <sub>2</sub>	1.422	0.34
NH3PSVVENT Use Only	PBS Refrigeration Unit PSV Vent	NH <sub>3</sub>	For	Emergency
PBSFUGDUST	Fugitive Dust (4)	PM <sub>10</sub>	0.07	0.31
PROCFUG	A079 Process Fugitives (4) 6.58		VOC	1.50
		H <sub>2</sub> O <sub>2</sub>	0.02	0.10
PROC-FUG5	A097 Process Fugitives (4) 3.96		VOC	0.90
		H <sub>2</sub> O <sub>2</sub>	0.01	0.05
R1301EMG	A079 Hydrogenation Reactor For Emergency Use Only Emergency Vent		VOC	
R5301EMG	A097 Hydrogenation Reactor For Emergency Use Only Emergency Vent		VOC	
SCRUBVENT	NH <sub>3</sub> Scrubber Vent (5)	NH <sub>3</sub>	0.54	2.37
V1121	Tank V-1121	H <sub>2</sub> O <sub>2</sub>	0.21	0.003

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			<u>lb/hr</u>	<u>TPY</u>
V1123	Tank V-1123	H <sub>2</sub> O <sub>2</sub>	0.3	<0.001
V1126	Tank V-1126	H <sub>2</sub> O <sub>2</sub>	0.3	0.001
V1306	Tank V-1306	VOC	0.048	0.21
V1620/1	Tank V-1620/1	H <sub>2</sub> O <sub>2</sub>	0.418	0.122
V1620/2	Tank V-1620/2	H <sub>2</sub> O <sub>2</sub>	0.418	0.122
V1620/3	Tank V-1620/3	H <sub>2</sub> O <sub>2</sub>	0.418	0.122
V1620/4	Tank V-1620/4	H <sub>2</sub> O <sub>2</sub>	0.418	0.122
V1620/5	Tank V-1620/5	H <sub>2</sub> O <sub>2</sub>	0.418	0.122
V1718	Tank V-1718	H <sub>2</sub> O <sub>2</sub>	0.03	0.007
V1721/1	Tank V-1721/1	H <sub>2</sub> O <sub>2</sub>	0.29	0.145
V1721/2	Tank V-1721/2	H <sub>2</sub> O <sub>2</sub>	0.29	0.145
V1723	Tank V-1723	H <sub>2</sub> O <sub>2</sub>	0.06	0.007
V1725	Tank V-1725	H <sub>2</sub> O <sub>2</sub>	0.299	0.192
V1727	Tank V-1727	H <sub>2</sub> O <sub>2</sub>	0.299	0.192
V1729	Tank V-1729	H <sub>2</sub> O <sub>2</sub>	0.299	0.192
V1735/1	Tank V-1735/1	H <sub>2</sub> O <sub>2</sub>	0.549	0.26
V1735/2	Tank V-1735/2	H <sub>2</sub> O <sub>2</sub>	0.549	0.26
V1735/3	Tank V-1735/3	H <sub>2</sub> O <sub>2</sub>	0.549	0.26

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Emission * Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates</u>	
			<u>lb/hr</u>	<u>TPY</u>
V1735/4	Tank V-1735/4	H <sub>2</sub> O <sub>2</sub>	0.549	0.26
V1737/1	Tank V-1737/1	H <sub>2</sub> O <sub>2</sub>	0.549	0.25
V1737/2	Tank V-1737/2	H <sub>2</sub> O <sub>2</sub>	0.549	0.25
V1739/1	Tank V-1739/1	H <sub>2</sub> O <sub>2</sub>	0.484	0.125
V1739/2	Tank V-1739/2	H <sub>2</sub> O <sub>2</sub>	0.763	0.197
V1739/3	Tank V-1739/3	H <sub>2</sub> O <sub>2</sub>	0.763	0.197
V1739/4	Tank V-1739/4	H <sub>2</sub> O <sub>2</sub>	0.763	0.197
V1741/1	Tank V-1741/1	H <sub>2</sub> O <sub>2</sub>	0.203	0.085
V1741/2	Tank V-1741/2	H <sub>2</sub> O <sub>2</sub>	0.241	0.097
V1741/3	Tank V-1741/3	H <sub>2</sub> O <sub>2</sub>	0.38	0.154
V1741/4	Tank V-1741/4	H <sub>2</sub> O <sub>2</sub>	0.38	0.154
V1741/5	Tank V-1741/5	H <sub>2</sub> O <sub>2</sub>	0.38	0.154
V1741/6	Tank V-1741/6	H <sub>2</sub> O <sub>2</sub>	0.607	0.236
V1752/1	Tank V-1752/1	H <sub>2</sub> O <sub>2</sub>	0.101	0.074
V1752/2	Tank V-1752/2	H <sub>2</sub> O <sub>2</sub>	0.16	0.115
V1752/3	Tank V-1752/3	H <sub>2</sub> O <sub>2</sub>	0.084	0.065
V1752/4	Tank V-1752/4	H <sub>2</sub> O <sub>2</sub>	0.084	0.064

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			<u>lb/hr</u>	<u>TPY</u>
V1752/5	Tank V-1752/5	H <sub>2</sub> O <sub>2</sub>	0.084	0.064
V1752/6	Tank V-1752/6	H <sub>2</sub> O <sub>2</sub>	0.091	0.074
V1786	Tank V-1786	H <sub>2</sub> O <sub>2</sub>	0.01	0.002
V1906	Tank V-1906	HNO <sub>3</sub>	4.26	0.02
V1907	Tank V-1907	VOC	0.77	0.007
V1908	Tank V-1908	VOC	6.74	0.02
V2718	Tank V-2718	H <sub>2</sub> O <sub>2</sub>	0.03	0.007
V2723	Tank V-2723	H <sub>2</sub> O <sub>2</sub>	0.06	0.007
V3620/1	Tank V-3620/1	H <sub>2</sub> O <sub>2</sub>	0.909	0.25
V3620/2	Tank V-3620/2	H <sub>2</sub> O <sub>2</sub>	0.418	0.110
V3723	Tank V-3723	H <sub>2</sub> O <sub>2</sub>	0.005	<0.001
V3741/1	Tank V-3741/1	H <sub>2</sub> O <sub>2</sub>	0.124	0.064
V3741/2	Tank V-3741/2	H <sub>2</sub> O <sub>2</sub>	0.124	0.064
V3741/3	Tank V-3741/3	H <sub>2</sub> O <sub>2</sub>	0.124	0.064
V3741/4	Tank V-3741/4	H <sub>2</sub> O <sub>2</sub>	0.08	<0.001
V3741/5	Tank V-3741/5	H <sub>2</sub> O <sub>2</sub>	0.24	0.129
V3741/6	Tank V-3741/6	H <sub>2</sub> O <sub>2</sub>	0.347	0.182
V3754	Tank V-3754	H <sub>2</sub> O <sub>2</sub>	0.008	<0.001

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			<u>lb/hr</u>	<u>TPY</u>
V3756	Tank V-3756	H <sub>2</sub> O <sub>2</sub>	0.008	<0.001
V3757	Tank V-3757	H <sub>2</sub> O <sub>2</sub>	0.008	<0.001
V3767	Tank V-3767	H <sub>2</sub> O <sub>2</sub>	0.074	0.064
V3768	Tank V-3768	H <sub>2</sub> O <sub>2</sub>	0.074	0.064
V3769	Tank V-3769	H <sub>2</sub> O <sub>2</sub>	0.008	0.001
V3771	Tank V-3771	H <sub>2</sub> O <sub>2</sub>	0.004	<0.001
V3772	Tank V-3772	H <sub>2</sub> O <sub>2</sub>	0.008	0.001
V4204	Tank V-4204	H <sub>2</sub> O <sub>2</sub>	0.2	0.009
V5660/1	Tank V-5660/1	H <sub>2</sub> O <sub>2</sub>	0.11	0.06
V5660/2	Tank V-5660/2	H <sub>2</sub> O <sub>2</sub>	(7)	0.06
V5780/1	Tank V-5780/1	H <sub>2</sub> O <sub>2</sub>	0.011	0.03
V5780/2	Tank V-5780/2	H <sub>2</sub> O <sub>2</sub>	0.011	0.03
V5870	Tank V-5870	VOC	<0.001	<0.001
V5878	Tank V-5878	VOC	<0.001	<0.001
V5890	Tank V-5890	VOC	<0.001	<0.001
WCIX-5	Cooling Tower	VOC	1.01	4.42
WWSYSTEM 6.20	Wastewater Treatment System	VOC		1.42

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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/hr</u>	<u>TPY</u>

- (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  
PM<sub>10</sub> - particulate matter (PM) 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<sub>2</sub>O<sub>2</sub> - hydrogen peroxide  
HNO<sub>3</sub> - nitric acid  
NH<sub>3</sub> - ammonia
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) Rate is maximum rate that would occur during an episode period. Under normal operating conditions the equipment provides the refrigeration building with ventilation.
- (6) Emission point includes H<sub>2</sub>O<sub>2</sub> Sources V-3770, V-3781/1, V-3773, V-3774, and V-3775.
- (7) Only Tank No. V-5660/1 or V-5660/2 will be filling at any one time.

\* 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 \_\_\_\_\_