

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)	<u>Emission Rates *</u>	
			lb/hr	TPY
ANALYZ-53	12 Oxygen Analyzers	VOC	0.15	0.65
BL4407	PBS-4 Dryer Exhaust Filter	PM ₁₀	3.20	13.60
BL4608/1	PBS-1 Dryer Exhaust Filter	PM ₁₀	1.92	8.13
BL4608/2	PBS-1 Dryer Exhaust Filter	PM ₁₀	1.92	8.13
BLDGVENT	Ventilation Fan Exhaust (5)	NH ₃	0.54	2.37
C1282	Wet Scrubber Blower Exhaust	PM ₁₀	4.38	16.00
		VOC	0.73	2.68
AO97-CAS	AO97 CAS Vent	VOC	2.39	10.48
AO79-CAS	AO79 CAS Vent	VOC	2.40	5.90
DISTIL-AO	4 Distillation Column Steam Vacuum Jets	VOC	0.01	0.05
DRUMBLDG	Drum Loading Building	H ₂ O ₂	0.061	0.039
EGTKS	Electronic Grade H ₂ O ₂ Facilities (6)	H ₂ O ₂	0.002	0.010
F1102/3	Cyclone Vent Filter	PM ₁₀	<0.01	<0.01
F1102/4	Silo Vent Filter	PM ₁₀	<0.01	<0.01
F4104	Borax Vacuum Filter Exhaust	PM ₁₀	0.30	0.30

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LOADRACK	H ₂ O ₂ Loading Rack	H ₂ O ₂	1.422	0.383
NH3PSVVENT Only	PBS Refrigeration Unit PSV Vent	NH ₃	For Emergency Use	
PBSFUGDUST	Fugitive Dust (4)	PM ₁₀	0.07	0.31
PROCFUG	AO79 Process Fugitives (4)	VOC H ₂ O ₂	1.50 0.02	6.58 0.10
PROC-FUG5	AO97 Process Fugitives (4)	VOC H ₂ O ₂	0.90 0.01	3.96 0.05
R1301EMG Only	AO79 Hydrogenation Reactor Emergency Vent	VOC	For Emergency Use	
R5301EMG Only	AO97 Hydrogenation Reactor Emergency Vent	VOC	For Emergency Use	
SCRUBVENT	NH ₃ Scrubber Vent (5)	NH ₃	0.54	2.37
V1121	Tank V-1121	H ₂ O ₂	0.21	0.003
V1123	Tank V-1123	H ₂ O ₂	0.3	<0.001
V1126	Tank V-1126	H ₂ O ₂	0.3	0.001
V1306	Tank V-1306	VOC	0.048	0.21
V1620/1	Tank V-1620/1	H ₂ O ₂	0.418	0.122
V1620/2	Tank V-1620/2	H ₂ O ₂	0.418	0.122
V1620/3	Tank V-1620/3	H ₂ O ₂	0.418	0.122
V1620/4	Tank V-1620/4	H ₂ O ₂	0.418	0.122

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V1620/5	Tank V-1620/5	H ₂ O ₂	0.418	0.122
V1718	Tank V-1718	H ₂ O ₂	0.03	0.007
V1721/1	Tank V-1721/1	H ₂ O ₂	0.29	0.145
V1721/2	Tank V-1721/2	H ₂ O ₂	0.29	0.145
V1723	Tank V-1723	H ₂ O ₂	0.06	0.007
V1725	Tank V-1725	H ₂ O ₂	0.299	0.192
V1727	Tank V-1727	H ₂ O ₂	0.299	0.192
V1729	Tank V-1729	H ₂ O ₂	0.299	0.192
V1735/1	Tank V-1735/1	H ₂ O ₂	0.549	0.26
V1735/2	Tank V-1735/2	H ₂ O ₂	0.549	0.26
V1735/3	Tank V-1735/3	H ₂ O ₂	0.549	0.26
V1735/4	Tank V-1735/4	H ₂ O ₂	0.549	0.26
V1737/1	Tank V-1737/1	H ₂ O ₂	0.549	0.25
V1737/2	Tank V-1737/2	H ₂ O ₂	0.549	0.25
V1739/1	Tank V-1739/1	H ₂ O ₂	0.484	0.125
V1739/2	Tank V-1739/2	H ₂ O ₂	0.763	0.197
V1739/3	Tank V-1739/3	H ₂ O ₂	0.763	0.197
V1739/4	Tank V-1739/4	H ₂ O ₂	0.763	0.197

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V1741/1	Tank V-1741/1	H ₂ O ₂	0.203	0.085
V1741/2	Tank V-1741/2	H ₂ O ₂	0.241	0.097
V1741/3	Tank V-1741/3	H ₂ O ₂	0.38	0.154
V1741/4	Tank V-1741/4	H ₂ O ₂	0.38	0.154
V1741/5	Tank V-1741/5	H ₂ O ₂	0.38	0.154
V1741/6	Tank V-1741/6	H ₂ O ₂	0.607	0.236
V1752/1	Tank V-1752/1	H ₂ O ₂	0.101	0.074
V1752/2	Tank V-1752/2	H ₂ O ₂	0.16	0.115
V1752/3	Tank V-1752/3	H ₂ O ₂	0.084	0.065
V1752/4	Tank V-1752/4	H ₂ O ₂	0.084	0.064
V1752/5	Tank V-1752/5	H ₂ O ₂	0.084	0.064
V1752/6	Tank V-1752/6	H ₂ O ₂	0.091	0.074
V1786	Tank V-1786	H ₂ O ₂	0.01	0.002
V1906	Tank V-1906	HNO ₃	4.26	0.02
V1907	Tank V-1907	VOC	0.77	0.009
V1908	Tank V-1908	VOC	6.74	0.03
V2718	Tank V-2718	H ₂ O ₂	0.03	0.007
V2723	Tank V-2723	H ₂ O ₂	0.06	0.007

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			<u>lb/hr</u>	<u>TPY</u>
V3620/1	Tank V-3620/1	H ₂ O ₂	0.909	0.25
V3620/2	Tank V-3620/2	H ₂ O ₂	0.418	0.110
V3723	Tank V-3723	H ₂ O ₂	0.005	<0.001
V3741/1	Tank V-3741/1	H ₂ O ₂	0.124	0.064
V3741/2	Tank V-3741/2	H ₂ O ₂	0.124	0.064
V3741/3	Tank V-3741/3	H ₂ O ₂	0.124	0.064
V3741/4	Tank V-3741/4	H ₂ O ₂	0.08	<0.001
V3741/5	Tank V-3741/5	H ₂ O ₂	0.24	0.129
V3741/6	Tank V-3741/6	H ₂ O ₂	0.347	0.182
V3754	Tank V-3754	H ₂ O ₂	0.008	<0.001
V3756	Tank V-3756	H ₂ O ₂	0.008	<0.001
V3757	Tank V-3757	H ₂ O ₂	0.008	<0.001
V3767	Tank V-3767	H ₂ O ₂	0.074	0.064
V3768	Tank V-3768	H ₂ O ₂	0.074	0.064
V3769	Tank V-3769	H ₂ O ₂	0.008	0.001
V3771	Tank V-3771	H ₂ O ₂	0.004	<0.001
V3772	Tank V-3772	H ₂ O ₂	0.008	0.001
V4204	Tank V-4204	H ₂ O ₂	0.2	0.009

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V5660/1	Tank V-5660/1	H ₂ O ₂	0.13	0.06
V5660/2	Tank V-5660/2	H ₂ O ₂	(7)	0.06
V5780/1	Tank V-5780/1	H ₂ O ₂	0.011	0.03
V5780/2	Tank V-5780/2	H ₂ O ₂	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	Wastewater Treatment System	VOC	1.42	6.20

(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 30 Texas Administrative Code Section 101.1
 PM₁₀ - 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.

H₂O₂ - hydrogen peroxide

HNO₃ - nitric acid

NH₃ - 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 H₂O₂ 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

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schedule:

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

Dated _____