Emission Sources - Maximum Allowable Emission Rates

Permit Number 154404

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, sources, and related activities. 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	
			lbs/hour	TPY (4)
C-2	Train 1 Scrubber controlling emissions from Train 1 Mixing Tank, Ammonium Hydroxide Product Tanks AV-201A and AV-201B, Crude Ammonium Hydroxide Tank, Sampling Box, Evaporator Offloading, Junction Box, Bulk Loading Station, Laboratory Fume Hoods	NH_3	0.14	-
2C-2	Train 2 Scrubber controlling emissions from Train 2 Mixing Tank, Ammonium Hydroxide Products Tanks 2AV-201A and 2AV-201B, Crude Ammonium Hydroxide Tank, Sampling Box, Evaporator Offloading, Junction Box, Bulk Loading Station	NH_3	0.13	-
SCRUB-CAP	Annual Emissions Cap for Ammonium Hydroxide Train 1 & 2 Ammonia Gas Scrubbers	NH_3	-	0.36
CT-1	Ammonium Hydroxide Train 1 Sulfuric Acid Tank	H_2SO_4	<0.01	<0.01
CT-2	Ammonium Hydroxide Train 1 Sulfuric Acid Tank	H_2SO_4	<0.01	<0.01
2CT-1	Ammonium Hydroxide Train 2 Sulfuric Acid Tank	H_2SO_4	<0.01	<0.01
2CT-2	Ammonium Hydroxide Train 2 Sulfuric Acid Tank	H_2SO_4	<0.01	<0.01
MSS-LP	MSS Line Purge (6)	NH_3	<0.01	<0.01
		H_2SO_4	<0.01	<0.01
		H_2O_2	<0.01	<0.01
FUG-1	Ammonium Hydroxide Train 1&2 Fugitive Area (5)	NH_3	0.18	0.81
FUG-2	Ammonia Gas Scrubber Sulfuric Acid System Fugitive Area (5)	H_2SO_4	0.02	0.10
101A	H2O2 Train 1 Raw Material Tank	H_2O_2	0.02	-
102A	H2O2 Train 1 Raw Material Tank	H_2O_2	0.02	-
301A	H2O2 Train 1 Final Product Tank	H_2O_2	<0.01	-
302A	H2O2 Train 1 Final Product Tank	H_2O_2	<0.01	-

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303A	H2O2 Train 1 Final Product Tank	H_2O_2	<0.01	-
304A	H2O2 Train 1 Final Product Tank	H_2O_2	<0.01	-
308A	H2O2 Train 1 Rework Tank	H_2O_2	<0.01	-
309A	H2O2 Train 1 Rework Tank	H_2O_2	<0.01	-
408A	H2O2 Train 1 Rework Tank	H_2O_2	<0.01	-
409A	H2O2 Train 1 Rework Tank	H_2O_2	<0.01	-
101B	H2O2 Train 2 Raw Material Tank	H_2O_2	0.02	-
102B	H2O2 Train 2 Raw Material Tank	H_2O_2	0.02	-
301B	H2O2 Train 2 Final Product Tank	H_2O_2	<0.01	-
302B	H2O2 Train 2 Final Product Tank	H_2O_2	<0.01	-
303B	H2O2 Train 2 Final Product Tank	H_2O_2	<0.01	-
304B	H2O2 Train 2 Final Product Tank	H_2O_2	<0.01	-
308B	H2O2 Train 2 Rework Tank	H_2O_2	<0.01	-
309B	H2O2 Train 1 Rework Tank	H_2O_2	<0.01	-
H2O2 Tank CAP	H2O2 Train 1&2 Tanks	H_2O_2	-	0.05
IL-1&2	H2O2 Train 1 Isotainer Loading	H_2O_2	<0.01	-
IL-3	H2O2 Train 2 Isotainer Loading	H_2O_2	<0.01	-
IL-CAP	H2O2 Train 1&2 Isotainer Loading	H_2O_2	-	<0.01
FUG-3	H2O2 Train 1&2 Fugitive Area (5)	H_2O_2	0.02	0.09

(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_3 ammonia
H_2SO_4 sulfuric acid
H_2O_2 hydrogen peroxide
(4) Compliance with annual emission limits (tons per year) is based on a 12-month rolling period.
(5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.
(6) Emission rates include planned maintenance, startup and shutdown activities.

Date: July 13, 2023