Emission Sources - Maximum Allowable Emission Rates

Permit Number 25027

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 (8)	
			lbs/hour	TPY (4)
CR-1	Black Oxide Line Mist Eliminator Stack (7 Tanks) (5)	PM	0.022	0.096
		PM_{10}	0.022	0.096
		$PM_{2.5}$	0.022	0.096
		Cr VI	0.00003	0.000122
		Na_2SiF_6	8.78E-8	3.85E-7
		FeCN	4.28E-8	1.88E-7
		$Ba(NO_3)_2$	1.16E-7	5.06E-7
		H_2SO_4	1.08E-17	4.75E-17
		HNO_3	0.0218	0.09563
		$Na_2Cr_2CO_7$	1.12E-6	4.92E-6
CR-2	Chrome Plating Line Mist Eliminator Stack (4 Tanks) (6)	PM	0.0023	0.0098
		PM_{10}	0.0023	0.0098
		$PM_{2.5}$	0.0023	0.0098
		Cr VI	<0.0011	0.0047
CR-3	Chrome Anodizing Line Mist Eliminator Stack (12 Tanks) (7)	PM	0.039	0.17
		PM_{10}	0.039	0.17
		$PM_{2.5}$	0.039	0.17
		NaOH	0.0379	0.166
		Cr VI	0.0009	0.004
		$Na_2Cr_2CO_7$	6.77 E-6	2.96E-5

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		MgF_2	1.49 E-7	6.51E-7
		HNO_3	0.00004	0.0002
		H_2SO_4	9.51 E-18	4.16E-17
		H_3PO_4	7.89 E-6	3.46E-5
		Na_2SiF_6	1.50E-7	6.57E-7
		FeCN	7.22E-8	3.16E-7
		$Ba(NO_3)_2$	1.98E-7	8.68E-7

(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) PM - total particulate matter, suspended in the atmosphere, including PM_{10} and $PM_{2.5}$, as represented
PM_{10} - total particulate matter equal to or less than 10 microns in diameter, including $PM_{2.5}$, as represented
$PM_{2.5}$ - particulate matter equal to or less than 2.5 microns in diameter
Cr VI - hexavalent chrome
HNO_3 - nitric acid
H_3PO_4 - phosphoric acid
H_2SO_4 - sulfuric acid
MgF_2 - magnesium fluoride
NaOH - sodium hydroxide
$Na_2Cr_2CO_7$ - sodium dichromate
FeCN - ferricyanide
Na_2SiF_6 - sodium silicofluoride
$Ba(NO_3)_2$ - barium nitrate
(4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.
(5) CrVI, HNO_3, Na_2SiF_6, $Ba(NO_3)_2$, $Na_2Cr_2CO_7$, and, FeCN are included in the particulate matter and are addressed in the permit application file.
(6) CrVI is included in the particulate matter.
(7) CrVI, MgF_2, H_3PO_4, $Na_2Cr_2CO_7$, HNO_3, H_2SO_4, Na_2SiF_6, FeCN, $Ba(NO_3)_2$, and NaOH are included in the particulate matter and are addressed in the permit application file.
(8) Planned startup and shutdown emissions are included. Maintenance activities are not authorized by this permit and will need separate authorization unless the activity can meet conditions of 30 TAC 116.119

Date: July 30, 2014