

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. HW-50178-001

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		Air Contaminant		<u>Emission Rates *</u>
	Name (2)	Name (3)	lb/hr	TPY	
EPN 1	Deactivation Furnace		NO _x	364.54	39.90
			SO ₂	12.00	39.90
			CO	0.34	1.49
			PM ₁₀	0.13	0.59
			TSP	0.13	0.59
			VOC	0.03	0.13
			Al ₂ O ₃	0.099	0.431
			B ₂ O ₃	0.013	0.056
			BaO	0.135	0.59
			CaO	0.039	0.172
			CrO ₂	0.027	0.118
			HCl	4.00	17.52
			KOH	0.116	0.509
			MgO	0.077	0.338
			Na ₂ O	0.062	0.269
			NiO	0.007	0.031
			P ₂ O ₃	0.097	0.425
			PbO	0.132	0.579
			Sb ₂ O ₃	0.041	0.178
			SiO ₂	0.016	0.070
			SnO ₂	0.077	0.336
			Sr(OH) ₂	0.104	0.457
			ZnO	0.0001	0.0003
			ZrO ₂	0.0001	0.0005
EPN 2	Smokeless Powder Burn Area (SPBA)		NO _x	275.00	20.63
			SO ₂	3.60	0.27
			CO	9.54	0.72
			VOC	2.61	0.20
			PM	14.00	1.05
			Metals	7.61	0.57
EPN 3	High Explosive Burn Area (HEBA)		NO _x	110.00	16.50
			SO ₂	1.44	0.22
			CO	1.71	0.26
			VOC	1.04	0.16

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PM	5.60	0.84
Metals	2.30	0.35

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Emission Point No. (1)	Source		Air Contaminant		<u>Emission Rates *</u>
	Name (2)	Name (3)	lb/hr	TPY	
EPN 4	Open Detonation Area (ODA)		NO _x		103.00
			SO ₂		25.80
			CO		1.34
			VOC		43.00
			PM		10.76
			Metals		0.39
					1.57
					84.00
					21.00
					5.79
					1.45

- (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) PM₁₀ - particulate matter less than ten microns
 PM - particulate matter
 VOC - volatile organic compounds as defined in General Rule 101.1
 NO_x - total oxides of nitrogen
 SO₂ - sulfur dioxide
 CO - carbon monoxide
 TSP - total suspended particulate
 Metals - Metals as particulate, which may include chromium, nickel, copper, lead, cadmium, antimony, and barium
 Al₂O₃ - aluminum oxide
 B₂O₃ - boric acid
 BaO - barium oxide
 CaO - calcium oxide
 CrO₂ - chromic oxide
 HCl - hydrogen chloride
 KOH - potassium hydroxide
 MgO - magnesium oxide
 Na₂O - sodium oxide
 NiO - nickel oxide
 P₂O₂ - phosphorus trioxide
 PbO - litharge
 Sb₂O₃ - antimony trioxide
 SiO₂ - silicon oxide
 SnO₂ - stannic oxide
 Sr(OH)₂ - strontium hydroxide
 ZnO - zinc oxide
 ZrO₂ - zirconium oxide
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.

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- * Emission rates are based on and the facilities are limited by the following maximum operating schedule:

Hrs/day___Days/week___Weeks/year___or Hrs/year 8,760