

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 3794

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
E-1	Furnace "A" Stack	PM-Total	1.50	1.97
		PM-Aluminum Only	1.48	1.95
		PM-Alloy Metals	0.20	0.25
		SO ₂	0.02	0.03
		NO _x	2.80	7.02
		CO	0.70	1.76
		VOC (4)	0.06	0.14
		Chlorine Comp.	3.73	4.95
		HF	0.50	0.72
E-2	Furnace "B" Stack	PM-Total	2.50	2.20
		PM-Aluminum Only	2.47	2.18
		PM-Alloy Metals	0.32	0.28
		SO ₂	0.02	0.03
		NO _x	23.40	33.00
		CO	1.56	1.60
		VOC (4)	0.09	0.13
		Chlorine Comp.	3.73	4.95
		HF	0.50	0.72
E-3	Homogenizing Oven Stack	PM ₁₀	0.05	0.07
		SO ₂	<0.01	<0.01
		NO _x	0.91	1.58
		CO	0.20	0.34
		VOC (4)	0.04	0.07
E-4	Press 1 Stack	PM ₁₀	0.02	
		SO ₂	<0.01	

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			lb/hr	TPY
		NO _x	0.35	
		CO	0.08	
		VOC (4)	0.01	
E-5	Press 2 Stack	PM ₁₀	0.04	
		SO ₂	<0.01	
		NO _x	0.72	
		CO	0.16	
		VOC (4)	0.03	
E-6	Press 3 Stack	PM ₁₀	0.04	
		SO ₂	<0.01	
		NO _x	0.72	
		CO	0.16	
		VOC (4)	0.03	
E-7	Press 4 Stack	PM ₁₀	0.06	
		SO ₂	<0.01	
		NO _x	1.22	
		CO	0.26	
		VOC (4)	0.05	
	Press Stacks 1-4	PM ₁₀		0.12
		SO ₂		0.04
		NO _x		2.29
		CO		0.47
		VOC (4)		0.09
E-8	Age Oven 1 Stack	PM ₁₀	0.03	
		SO ₂	<0.01	
		NO _x	0.50	
		CO	0.11	
		VOC (4)	0.02	
E-9	Age Oven 2 Stack	PM ₁₀	0.02	

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			lb/hr	TPY
		SO ₂	<0.01	
		NO _x	0.25	
		CO	0.06	
		VOC (4)	<0.01	
E-10	Age Oven 3 Stack	PM ₁₀	0.03	
		SO ₂	<0.01	
		NO _x	0.50	
		CO	0.11	
		VOC (4)	0.02	
E-11	Age Oven 4 Stack	PM ₁₀	0.02	
		SO ₂	<0.01	
		NO _x	0.25	
		CO	0.06	
		VOC (4)	<0.01	
E-11a	Age Oven 5 Stack	PM ₁₀	0.02	
		SO ₂	<0.01	
		NO _x	0.38	
		CO	0.08	
		VOC (4)	0.02	
	Age Oven Stacks 1-5	PM ₁₀		0.10
		SO ₂		0.05
		NO _x		1.81
		CO		0.40
		VOC (4)		0.05
E-12,13, 14	Aluminum Cleaning Stacks	PM ₁₀	0.03	0.03
		SO ₂	0.03	0.03
		NO _x	0.41	0.45
		CO	0.09	0.09
		VOC (4)	0.03	0.03

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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>
	Aluminum Cleaning Operation Fugitives (4)	H ₂ SO ₄	<0.01	<0.01

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Emission * Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lb/hr	TPY
E-15	Die Cleaning Stack	PM ₁₀	<0.01	<0.01
		SO ₂	<0.01	<0.01
		NO _x	0.02	0.02
		CO	<0.01	<0.01
		VOC (4)	<0.01	<0.01
		NaOH	0.14	0.57
E-16	Dross Cooler Baghouse	PM ₁₀	1.90	2.50
E-17	Fab Buffer Cyclone	PM ₁₀	4.80	0.24

(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 - particulate matter suspended in the atmosphere, including PM₁₀

PM-Total - all stack particulate matter, including aluminum and alloy metals

PM-Al only - only particulate matter containing aluminum

PM-Alloy metals - includes (but is not limited to) the following metals: zinc, copper, magnesium, manganese, chromium, and silicon

PM₁₀ - particulate matter equal to or less than 10 microns in diameter

VOC - volatile organic compounds as defined in General Rule 101.1

NO_x - total oxides of nitrogen

SO₂ - sulfur dioxide

CO - carbon monoxide

Chlorine Comp. - chlorine compounds including (but not limited to) hydrogen

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chloride and chlorine gas.

HF - hydrogen fluoride
H₂SO₄ - sulfuric acid, fugitive emissions from the aluminum
cleaning operation
NaOH - sodium hydroxide
(4) VOCs are from the burning of natural gas.

Dated _____