

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)	<u>Emission Rates *</u>	
			lb/hr	TPY
E-1	Furnace "A" Stack	TSP-Total	1.50	1.97
		TSP-Aluminum Only	1.48	1.95
		TSP-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.	7.10	9.41
		HF	0.50	0.72
E-2	Furnace "B" Stack	TSP-Total	2.50	2.20
		TSP-Aluminum Only	2.47	2.18
		TSP-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.	7.10	9.41
		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	
		NO _x	0.35	
		CO	0.08	
		VOC (4)	0.01	
E-5	Press 2 Stack	PM ₁₀	0.04	

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SO ₂	<0.01
NO _x	0.72
CO	0.16
VOC (4)	0.03

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			lb/hr	TPY
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	
		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	

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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

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			lb/hr	TPY
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
	Aluminum Cleaning Operation Fugitives (4)	H ₂ SO ₄	<0.01	<0.01
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) TSP - total suspended particulate matter including PM₁₀
- TSP-Total - all stack particulate matter, including aluminum and alloy metals
- TSP-Al only - only particulate matter containing aluminum
- TSP-Alloy metals- includes (but is not limited to) the following metals: zinc,
copper, magnesium, manganese, chromium, and silicon
- PM₁₀ - particulate matter 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
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_____

