AIR CONTAMINANTS DATA

Emission	Source	Air Contaminant	Emission Rates *
Point No. (1)	Name (2)	Name (3)	<u>lb/hr TPY</u>

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 21826

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.

Emission	Source	Air Contaminant	Emission Rates *	
Point No. (1)	Name (2)	Name (3)	1b/hr	TPY
F-1	Melting Furnace 1	PM_{10}	0.70	3.05
		VOC	0.04	0.19
		NO_x	2.06	9.03
		SO_2	0.01	0.04
		CO	0.52	2.26
		HF	0.02	0.09
F-2	Melting Furnace 2	PM ₁₀	0.45	1.97
1 -2	Mercing runnace 2	VOC	0.02	0.11
		NO _x	1.23	5.41
		SO ₂	0.01	0.03
		CO	0.31	1.35
		HF	0.01	0.06
F-3	Melting Furnace 3	PM_{10}	0.27	1.18
		VOC	0.02	0.07
		NO _x	0.82	3.61

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission</u> lb/hr	Rates *
TOTHE NO. (1)	Name (2)	Name (5)	10/111	
		SO_2	<0.01	0.02
		CO	0.21	0.90
		HF	0.01	0.04
F-4	Melting Furnace 4	PM_{10}	0.70	3.05
		V0C	0.04	0.19
		NO_x	2.06	9.03
		SO_2	0.01	0.04
		CO	0.52	2.26
		HF	0.02	0.09
WE-1	Water Evaporator	PM ₁₀	0.01	0.04
WL-T	Water Evaporator (SAMSCO) Stack	VOC	<0.01	0.04
	(SAMSCO) Stack	VOC (a)	<0.01	<0.01
		NO _x	0.08	0.33
		SO ₂	<0.01	<0.01
		CO	0.02	0.07
WE-2	Water Evaporator	PM ₁₀	<0.01	0.03
	(Landa) Stack	VOC	<0.01	0.01
	,	NO_x	0.06	0.25
		SO_2	<0.01	<0.01
		CO	0.01	0.05
DH-1	Holding Furnaces 1, 2	•	PM	0.02
		0.01		
	4, 14, 15, 16, 17,	PM_{10}	0.01	0.01
	19, 20, and Zinc	VOC	0.01	0.01
	Holding Furnace (4		0.25	0.18
		SO ₂	<0.01	<0.01
		CO	0.21	0.15
DH-2	Holding Furnaces 5, 6	, PM	<0.01	<0.01
	and 18 (4)	PM ₁₀	<0.01	<0.01

Emission	Source	Air Contaminant	<u>Emission</u>	
Point No. (1)	Name (2)	Name (3)	<u> 1b/hr</u>	<u>TPY</u>
		VOC NO _x SO ₂ CO	<0.01 0.07 <0.01 0.06	<0.01 0.05 <0.01 0.04
DH-3	Holding Furnaces 8, and 10	$\begin{array}{c} 9, \qquad PM \\ PM_{10} \\ VOC \\ NO_x \\ SO_2 \\ CO \end{array}$	<0.01 <0.01 <0.01 0.07 <0.01 0.06	<0.01 <0.01 <0.01 0.05 <0.01 0.04
DH-4	Holding Furnaces 11, and 13 (4)	12, $ \begin{array}{c} < 0.01 \\ PM_{10} \\ VOC \\ NO_x \\ SO_2 \\ CO \end{array}$	PM <0.01 <0.01 0.07 <0.01 0.06	<0.01 <0.01 <0.01 0.05 <0.01 0.04
EF -1, 2 and 3	Holding Furnaces 21 and 22 (4)	$\begin{array}{c} PM \\ PM_{10} \\ VOC \\ NO_{x} \\ SO_{2} \\ CO \end{array}$	<0.01 <0.01 <0.01 0.05 <0.01 0.04	<0.01 <0.01 <0.01 0.03 <0.01 0.03
EF -6	Holding Furnaces 25 and 26 (4)	PM PM_{10} VOC NO_x SO_2 CO	<0.01 <0.01 <0.01 0.05 <0.01 0.04	<0.01 <0.01 <0.01 0.03 <0.01 0.03

Emission Source Air Conta Point No. (1) Name (2) Name (ion Rates * TPY
EF -7 Holding Furnaces 24 (4)	PM <0.01	<0.01
PM_{10}	<0.01	<0.01
VOC	<0.01	<0.01
NO_x	0.02	0.02
SO_2	<0.01	<0.01
СО	0.02	0.01
EF -8 Holding Furnaces 23 (4)	PM	<0.01
	< 0.01	
PM_{10}	< 0.01	< 0.01
VOC	<0.01	<0.01
NO_x	0.02	0.02
SO ₂	<0.01	<0.01
CO	0.02	0.01
HTF -1 Heat Treat Oven Stack PM	< 0.01	<0.01
PM_{10}	<0.01	<0.01
VOC	<0.01	<0.01
NO _x	<0.01	0.01
SO₂	<0.01	<0.01
СО	0.01	0.01
VD-1 ALMCO Vibratory Dryer PM	<0.01	0.03
$Stack PM_{10}$	<0.01	0.01
VOC	<0.01	0.01
NO_x	0.05	0.22
SO_2	<0.01	<0.01
СО	0.04	0.18
VD-2 Roto Finish Dryer PM	<0.01	0.02
Stack PM ₁₀	<0.01	0.01
VOC	<0.01	0.01
NO_x	0.08	0.24
SO_2	<0.01	<0.01
CO	0.07	0.21

- (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 suspended in the atmosphere, including PM_{10} . PM_{10} particulate matter less than or equal to 10 microns in diameter. Where PM is not listed, it shall be assumed that no particulate matter greater than 10 microns is emitted.

VOC - volatile organic compounds as defined in General Rule 101.1
VOC(a) - for VOC emitted during evaporation
process

 NO_x - total oxides of nitrogen

SO₂ - sulfur dioxide CO - carbon monoxide HF - hydrogen fluoride

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EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

- (4) Fugitive emissions are an estimate only.
- * Emission rates are based on and the furnaces are limited to the maximum hourly aluminum production of 4,500 pounds for Furnace 1, 3,000 pounds for Furnace 2, 1,800 pounds for Furnace 3, and 4,500 pounds for Furnace 4 with a maximum annual plant throughput of 45,000,000 pounds of aluminum. Additionally, emission rates are based on and the water evaporators are limited to the maximum hourly wastewater throughput of 63 gallons for the SAMSCO water evaporator and 50 gallons for the Landa water evaporator with a maximum annual

plant throug	hput of 989,880	gallons.		
Hrs/day	_Days/week	_Weeks/year	_or Hrs/year <u>8,76</u>	0
				Dated_
				Dateu_