Permit No. 8097/PSD-TX-138M5

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 A		Air Contaminant	Emission Rates *	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
01	Meltshop Overhead Ca	nopy	PM_{10}	13.0 51.8
	Hoods Baghouse "A"	CO	72.5	289.9
	Stack (Positive Pr	essure	NO_X	4.3 17.1
	Baghouse) (6)	SO_2	4.3	17.0
		VOC	27.1	108.3
		Pb	0.039	0.16
		Hg	0.0027	0.011
		Cr	0.00097	0.0039
		Cd	0.0015	0.0058
02	Bar Mill Reheat	PM_{10}	0.70	3.10
02	Furnace (7)	NO _X	77.00	340.00
	rarnace (7)	CO	5.60	25.00
		SO ₂	0.08	0.37
		VOC	0.20	0.86
04A	Meltshop Roof Monito	r PM ₁₀	3.1	12.5
U4A	Monovent "A"	CO	2.0	8.0
	Monovenc A	NO _X	0.12	0.47
		SO ₂	0.12	0.47
		VOC	0.75	3.01
		Pb	0.063	0.25
		Hg	0.000046	0.00018
		Cr	0.0026	0.010
		Cd	0.0020	0.008

${\tt EMISSION} \ \ {\tt SOURCES} \ \ {\tt -} \ \ {\tt MAXIMUM} \ \ {\tt ALLOWABLE} \ \ {\tt EMISSION} \ \ {\tt RATES}$

Emission	Source	Air Contaminant	Emission Rates *	
Point No. (1)	Name (2)	Name (3)	<u> 1b/hr</u>	<u>TPY</u>
04B	Meltshop Roof Monitor	- PM ₁₀	3.1	12.5
	Monovent "B"	CO	2.0	8.0
		NO_X	0.12	0.47
		SO_2	0.12	0.47
		VOC	0.75	3.01
		Pb	0.063	0.25
		Hg	0.000046	0.00018
		Cr	0.0026	0.010
		Cd	0.0020	0.008
05	Medium Section Mill	PM_{10}	4.30	10.00
	Reheat Furnace (8)	NO_X	65.70	154.00
		CO	10.70	25.00
		SO_2	15.40	36.00
		VOC	2.10	5.00
06	Meltshop Overhead Car	ιοργ	PM ₁₀	21.9 87.4
	Hoods Baghouse "B" Stack (6)	CO	124.6	498.3
		NO_X	7.3	29.4
		SO_2	7.3	29.3
		VOC	46.6	186.2
		Pb	0.067	0.27
		Hg	0.0046	0.018
		Cr	0.0017	0.0067
		Cd	0.0025	0.010
07	Furnaces "A" and "B"	PM_{10}	17.4	69.5
	4th Hole Evacuatior	n CO	254.4	1017.4
	System Baghouse	NO_X	59.8	239.2
	"C" Stack	SO_2	27.1	108.4
		VOC	21.4	85.5
		Pb	0.022	0.087
		Hg	0.10	0.42
		Cr	0.0021	0.0083

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES AIR CONTAMINANTS DATA

Emission	Source Ai	r Contaminant	<u>Emission Rates *</u>	
Point No. (1)	Name (2)	Name (3)	1b/h <u>r</u>	<u>TPY</u>
		Cd	0.0013	0.0050
08	Air Cascade Separator Auto Shredder Primary Collection System (9)	PM_{10}	2.50	2.20
09	Large Section Mill Reheat Furnace (5)	$\begin{array}{c} PM_{10} \\ NO_X \\ SO_2 \\ CO \\ VOC \end{array}$	0.60 26.40 1.70 4.80 0.20	2.60 115.60 4.50 21.00 0.70
10A	Meltshop Roof Monitor Monovent "A"	PM_{10} CO NO_X SO_2 VOC	0.19 0.34 1.62 0.23 0.09	0.77 1.36 6.46 0.04 0.34
10B	Meltshop Roof Monitor Monovent "B"	$\begin{array}{c} PM_{10} \\ CO \\ NO_X \\ SO_2 \\ VOC \end{array}$	0.19 0.34 1.62 0.23 0.09	0.77 1.36 6.46 0.04 0.34
10C	Meltshop Sidewall Vent	PM_{10} CO NO_X SO_2 VOC	0.23 0.40 1.91 0.27 0.10	0.91 1.61 7.65 0.05 0.40
11A	Outdoor Alloy Handling 0.0073	(4) PM ₁₀	PM 0.00089	0.0019 0.0035
11B	Indoor Alloy Handling Monovent "A"	PM PM ₁₀	0.00019 0.000089	0.00075 0.00035

AIR CONTAMINANTS DATA

Emission Source Air Contaminant Emission Rates * Point No. (1) Name (2) Name (3) 1b/hr **TPY** 0.41.7 12 Scrap Steel Handling (4) PΜ PM_{10} 0.2 0.8 13 Baghouse Dust Railcar PM 0.00047 0.0019 Fugitives (4) PM_{10} 0.00022 0.00089 Pb 0.000012 0.000049 0.00000007 Hg 0.0000003 Cr 0.00000081 0.0000032 0.0000035 Cd 0.000014 PΜ 14 Alloy Piles (4) 0.079 0.054 0.079 0.054 PM_{10} 0.0324 15A Pelletizer Silo PM_{10} 0.1296 Baghouse Stack Pb 0.00085 0.0034 0.000005 0.000002 Hg 0.000055 0.00022 Cr Cd 0.000024 0.000095 15B PΜ 0.00047 Railcar Loading From 0.0019 Pelletizer Silo (4) 0.00022 0.000089 PM_{10} Pb 0.000012 0.000049 0.00000007 Hg 0.0000003 0.0000081 Cr 0.0000032 0.0000035 0.000014 Cd 16 Shredder Fugitives (4)(9) PM 0.0056 0.014 0.0024 PM_{10} 0.006 17 Residue Transfer at 0.010 0.026 PΜ Magnetic Separator (4)(9) PM_{10} 0.0049 0.012 18 Vibrating Screen (4)(9) PΜ 0.34 0.84 0.034 0.084 PM_{10}

Emission Source		Air Contaminant	<u>Emission Rates *</u>	
Point No. (1)	Name (2)	Name (3)	1b/hr	TPY
19	Residue Transfers at Metals Recovery (4)(0.061	PM (9)	0.052 PM ₁₀	0.130 0.025
20A	Unprocessed Residue Storage Pile (4)(9)	PM_{10}	0.084	0.058
20B	Processed Residue Storage Pile (4)(9)	PM_{10}	0.084	0.058
21	In-Plant Vehicle Traffic (4)	PM PM ₁₀		34.8 12.5

- (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 PM_{10}
- In the atmosphere, including PM₁₀
 - PM_{10} particulate matter equal to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no particulate matter greater than 10 microns is emitted.
 - CO carbon monoxide
 - NO_X total oxides of nitrogen
 - SO₂ sulfur dioxide
 - VOC volatile organic compounds as defined in General Rule 101.1
 - Pb lead and lead compounds
 - Hg mercury and mercury compounds
 - Cr chromium and chromium compounds
 - Cd cadmium and cadmium compounds
- (4) Fugitive emissions are an estimate only.
- (5) Emissions are based on a maximum design firing rate of 120 MMBtu/hr of natural gas fuel for a maximum of 8,760 hrs/yr.
- (6) Emissions collected in the canopy hood are combined in a mixing

Emission	Sourc	e	Air Contam	inant	Emission Ra	ates *
Point No.	(1) Name	(2)	Name (3))	1b/hr	TPY
(7) (8) (9)	For reference For reference For reference	itting to the only - emiss only - emiss only - emiss	ions authori ions authori ions authori	zed in zed in zed in	Permit No. Permit No.	8099. 3026.
* Emission rates are based on and the facilities are limited by the following maximum operating schedule:						
Hrs/year	24Hrs/day	7Days	s/week	<u>52</u> We	eeks/year o	r <u>8,000</u>