Permit Nos. 8097 and PSD-TX-135M5

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)	lb/hr	TPY
01	Meltshop Overhead Canopy Hoods Baghouse "A" Stack (Positive Pressure Baghouse) (6)	PM <sub>10</sub> CO NO <sub>x</sub> SO <sub>2</sub> VOC Pb Hg Cr Cd	17.90 81.90 6.00 5.10 31.20 0.045 0.0031 0.0011 0.0017	71.60 327.60 24.00 19.60 124.90 0.18 0.012 0.0045 0.0067
02A	Bar Mill Reheat Furnace (7) (Permit No. 1635)	$PM_{10}$ $NO_x$ $CO$ $SO_2$ $VOC$	1.19 24.95 2.20 0.07 0.53	5.20 109.27 9.63 0.31 2.34
05	Medium Section Mill Reheat Furnace (7) (Permit No. 8099)	$PM_{10}$ $NO_{x}$ $CO$ $SO_{2}$ $VOC$	4.30 65.70 10.70 15.40 2.10	10.00 154.00 25.00 36.00 5.00
06	Meltshop Overhead Canopy Hoods Baghouse "B" Stack (6)	$PM_{10}$ $CO$ $NO_{x}$ $SO_{2}$ $VOC$ $Pb$ $Hg$ $Cr$ $Cd$	26.00 140.80 10.30 8.70 53.70 0.077 0.0053 0.0019 0.0029	104.20 563.20 41.20 33.80 214.70 0.31 0.021 0.0077 0.012

Emission	Source	Air Contaminant	Emission Rates *	
Point No. (1)	Name (2)	Name (3)	lb/hr	<u>TPY</u>
07	Furnaces "A" and "B" 4th Hole Evacuation System Baghouse "C" Stack	$PM_{10}$ $CO$ $NO_x$ $SO_2$ $VOC$ $Pb$ $Hg$ $Cr$ $Cd$	17.40 284.30 63.10 28.60 24.60 0.023 0.11 0.0022 0.0013	69.50 1137.20 252.30 114.30 98.30 0.091 0.44 0.0088 0.0053
08	Air Cascade Separator Auto Shredder Primary Collection System (7) (Permit No. 3026)	PM <sub>10</sub>	2.50	2.20
09	Large Section Mill Reheat Furnace (5)	$PM_{10}$ $NO_x$ $SO_2$ $CO$ $VOC$	0.70 26.00 2.00 5.60 0.20	0.90 37.00 1.50 7.10 0.30
10C	"B" Side Ladle Heaters Sidewall Vent	$PM_{10}$ $CO$ $NO_x$ $SO_2$ $VOC$	0.15 1.61 1.91 0.27 0.11	0.58 6.43 7.65 0.05 0.42
10D	"A" Side Ladle Heaters Side Wall Vent	$PM_{10}$ $CO$ $NO_x$ $SO_2$ $VOC$	0.04 0.49 0.59 0.08 0.03	0.18 1.97 2.34 0.01 0.13
11A	Outdoor Alloy Handling (4)	PM PM <sub>10</sub>	<0.01 <0.01	<0.01 <0.01
11B	Indoor Alloy Handling	PM	<0.01	<0.01

Emission	Source	Air Contaminant	Emission Rates *		
Point No. (1)	Name (2)	Name (3)	lb/hr	<u>TPY</u>	
	Monovent "A"	PM <sub>10</sub>	<0.01	<0.01	
12	Scrap Steel Handling (4)	PM PM <sub>10</sub>	0.48 0.23	1.93 0.91	
13	Baghouse Dust Railcar Fugitives (4)	PM PM <sub>10</sub> Pb Hg Cr Cd	<0.01 <0.01 0.000015 0.00000009 0.00000097 0.00000042	<0.01 <0.01 0.000059 0.00000004 0.0000039 0.0000017	
14	Alloy Piles (4)	PM PM <sub>10</sub>	0.08 0.08	0.05 0.05	
15A	Pelletizer Silo Baghouse Stack	PM <sub>10</sub> Pb Hg Cr Cd	0.03 0.00085 0.0000005 0.000055 0.000024	0.13 0.0034 0.000002 0.00022 0.000095	
15B	Railcar Loading From Pelletizer Silo (4)	PM PM <sub>10</sub> Pb Hg Cr Cd	<0.01 <0.01 0.000015 0.00000009 0.00000097 0.00000042	<0.01 <0.01 0.000059 0.00000004 0.0000039 0.0000017	
16	Shredder Fugitives (4) and (7) (Permit No. 3026)	PM PM <sub>10</sub>	0.01 0.01	0.01 0.01	
17	Residue Transfer at Magnetic Separator (4) and (7) (Permit No. 3026)	PM PM <sub>10</sub>	0.01 <0.01	0.03 <0.01	
20A	Unprocessed Residue Storage Pile (4) and (7)	$PM_{10}$		0.14	

Emission	Source	Air Contaminant	Emission F	
Point No. (1)	Name (2)	Name (3)	lb/hr	<u>TPY</u>
	(Permit No. 3026)			
21	Residue Storage Pile at Separation Facility (4) and (7) (Permit No. 3026)	PM <sub>10</sub>		0.14
22	Vibrating Screen (4) and (7)	PM	0.15	0.65
	(Permit No. 3026)	PM <sub>10</sub>	0.02	0.07
23	Material Handling (4)and (7)	PM	0.32	1.41
	(Permit No. 3026)	PM <sub>10</sub>	0.15	0.67
24	Fines Storage Pile (4) and (7)	PM	<del></del>	0.14
	(Permit No. 3026)	PM <sub>10</sub>		0.14
25	Fines and Course Sand Storage (4) and (7) (Permit No. 3026)	PM PM <sub>10</sub>		0.14 0.14
26	Light Organic Material Storage (4) and (7) (Permit No. 3026)	PM PM <sub>10</sub>	 	0.14 0.14
30	In-Plant Vehicle Traffic (4)	PM PM <sub>10</sub>		34.80 12.50
S1	Slag Raw Feed (4) and (7)	PM	3.25	1.95
	(Permit No. 5983)	PM <sub>10</sub>	1.63	0.98
S3	Grizzly to Stock (4) and (7)	PM	<0.01	<0.01
	(Permit No. 5983)	PM <sub>10</sub>	<0.01	<0.01
S4	Grizzly to Conveyor (4) and (7)	PM	0.03	0.02
	(Permit No. 5983)	PM <sub>10</sub>	0.01	<0.01
S5	Conveyor To Conveyor (4) and (	(7) PM	0.03	0.02
	(Permit No. 5983)	PM <sub>10</sub>	0.01	<0.01

Emission	Source	Air Contaminant	Emission Rates *	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
S6	Conveyor To Feeder (4) and (7) (Permit No. 5983)	PM PM <sub>10</sub>	0.06 0.03	0.04 0.02
	(F emili No. 3903)	F 1V110	0.03	0.02
S7	Feeder to Feeder (4) and (7)	PM	<0.01	<0.01
	(Permit No. 5983)	$PM_{10}$	<0.01	<0.01
S8	Feeder to Conveyor (4) and (7)	PM	<0.01	<0.01
	(Permit No. 5983)	$PM_{10}$	<0.01	<0.01
S9	Conveyor To Screen (4) and (7)	PM	<0.01	<0.01
	(Permit No. 5983)	$PM_{10}$	<0.01	<0.01
S10	Screen (4) and (7)	PM	0.07	0.04
	(Permit No. 5983)	$PM_{10}$	0.03	0.02
S11	Conveyor To Conveyor (4) and (	7) PM	<0.01	<0.01
	(Permit No. 5983)	$PM_{10}$	<0.01	<0.01
S12	Conveyor To Conveyor (4) and (	7) PM	<0.01	<0.01
	(Permit No. 5983)	PM <sub>10</sub>	<0.01	<0.01
S13	Conveyor To Screen (4) and (7)	PM	<0.01	<0.01
	(Permit No. 5983)	$PM_{10}$	<0.01	<0.01
S14	Screen (4) and (7)	PM	0.03	0.02
	(Permit No. 5983)	$PM_{10}$	0.01	<0.01
S15	Screen to Conveyor (4) and (7)	PM	<0.01	<0.01
	(Permit No. 5983)	$PM_{10}$	<0.01	<0.01
S16	Conveyor To Conveyor (4) and (	7) PM	<0.01	<0.01
	(Permit No. 5983)	$PM_{10}$	<0.01	<0.01
S17	Conveyor To Conveyor (4) and (	7) PM	0.02	0.01

Emission	Source	Air Contaminant	Emission F	Emission Rates *	
Point No. (1)	Name (2)	Name (3)	lb/hr	<u>TPY</u>	
		PM <sub>10</sub>	0.01	<0.01	
S18	Conveyor To Bin (4) and (7) (Permit No. 5983)	PM PM <sub>10</sub>	0.02 0.01	0.01 <0.01	
S19	Bin to Truck (4) and (7) (Permit No. 5983)	PM PM <sub>10</sub>	0.02 0.01	0.01 <0.01	
S20	Screen to Conveyor (4) and (7) (Permit No. 5983)	PM PM <sub>10</sub>	<0.01 <0.01	<0.01 <0.01	
S21	Conveyor to Stock (4) and (7) (Permit No. 5983)	PM PM <sub>10</sub>	<0.01 <0.01	<0.01 <0.01	
S22	Screen to Conveyor (4) and (7) (Permit No. 5983)	PM PM <sub>10</sub>	<0.01 <0.01	<0.01 <0.01	
S23	Conveyor to Stock (4) and (7) (Permit No. 5983)	PM PM <sub>10</sub>	<0.01 <0.01	<0.01 <0.01	
S24	Feeder to Feeder (4) and (7) (Permit No. 5983)	PM PM <sub>10</sub>	0.06 0.03	0.04 0.02	
S25	Feeder to Conveyor (4) and (7) (Permit No. 5983)	PM PM <sub>10</sub>	0.06 0.03	0.04 0.02	
S26	Conveyor to Screen (4) and (7) (Permit No. 5983)	PM PM <sub>10</sub>	0.06 0.03	0.04 0.02	
S27	Screen (4) and (7) (Permit No. 5983)	PM PM <sub>10</sub>	1.02 0.48	0.61 0.29	
S28	Screen to Conveyor (4) and (7) (Permit No. 5983)	PM PM <sub>10</sub>	0.02 0.01	0.01 <0.01	

Emission	Source Air	Contaminant	Emission Rates *	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
S29	Screen to Conveyor (4) and (7) (Permit No. 5983)	PM PM <sub>10</sub>	0.04 0.02	0.02 0.01
S30	Conveyor to Crusher (4) and (7) (Permit No. 5983)	PM PM <sub>10</sub>	0.06 <0.01	<0.01 <0.01
S31	Crusher With Baghouse (7) (Permit No. 5983)	PM PM <sub>10</sub>	0.07 0.03	0.04 0.02
S32	Crusher to Conveyor (4) and (7) (Permit No. 5983)	PM PM <sub>10</sub>	<0.01 <0.01	<0.01 <0.01
SBH-1	Crusher Baghouse (7) (Permit No. 5983)	PM PM <sub>10</sub>	0.34 0.34	0.20 0.20
S33	Conveyor To Conveyor (4) and (7) (Permit No. 5983)	PM PM <sub>10</sub>	0.04 0.02	0.02 0.01
S34A	Molten Slag Pot Dump (4) and (7) (Permit No. 5983)	PM <sub>10</sub>	1.19	5.30
S34B	Slag Skul Pot Dump (4) and (7) (Permit No. 5983)	PM PM <sub>10</sub>	0.13 0.07	0.59 0.29
S35	Front-End Loader Drop at Mixing Building (4) and (7) (Permit No. 5983)	PM PM <sub>10</sub>	0.44 0.22	1.95 0.98
SBH-2/3	FerroCut Baghouse (7) (Permit No. 5983)	PM <sub>10</sub> NO <sub>x</sub> CO VOC	1.61 0.78 0.13 0.02	1.93 3.49 0.59 0.09
S37 S38	Stockpile (4) and (7) (Permit No. 5983) Slag Road Emissions (4) and (7)	PM PM <sub>10</sub> PM	  	0.43 0.21 21.26

(Permit No. 5983) PM<sub>10</sub> -- 10.63

- (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<sub>10</sub>
  - $PM_{10}$  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<sub>x</sub> total oxides of nitrogen
  - SO<sub>2</sub> sulfur dioxide
  - VOC volatile organic compounds as defined in 30 Texas Administrative Code Section 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 347 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 chamber before splitting to the two baghouses.
- (7) For reference only. These emissions points are authorized under other TNRCC air quality permits as indicated above.
- \* Emission rates are based on and the facilities are limited by the following maximum operating schedule:

24	_Hrs/day	7	_Days/week _	52	_Weeks/year or	8,760	_Hrs/year
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Except for 8,000 Hrs/year for each electric arc furnace

Dated