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 F	Rates *
Point No. (1)	Name (2)	Name (3)	lb/hr	<u>TPY</u>
01	Meltshop Overhead Canopy Hoods Baghouse "A" Stack (Positive Pressure Baghouse) (6)	PM_{10} CO NO_{\times} SO_{2} VOC Pb Hg Cr Cd	17.9 81.9 6.0 5.1 31.2 0.045 0.0031 0.0011 0.0017	71.6 327.6 24.0 19.6 124.9 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	26.0 140.8 10.3 8.7 53.7 0.077 0.0053 0.0019 0.0029	104.2 563.2 41.2 33.8 214.7 0.31 0.021 0.0077 0.012

Emission	Source	Air Contaminant	Emission R	
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_{\times} SO_{2} VOC Pb Hg Cr Cd	17.4 284.3 63.1 28.6 24.6 0.023 0.11 0.0022 0.0013	69.5 1137.2 252.3 114.3 98.3 0.091 0.44 0.0088 0.0053
08	Air Cascade Separator Auto Shredder Primary Collection System (7) (Permit No. 3026)	PM ₁₀	2.50	2.20
09	Large Section Mill Reheat Furnace (5)	PM_{10} NO_{X} SO_{2} CO VOC	2.3 95.3 6.5 18.2 0.6	9.9 417.6 1.2 79.5 2.8
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 0.014 0.13
11A	Outdoor Alloy Handling (4)	PM PM ₁₀	0.0023 0.0011	0.0089 0.0042
11B	Indoor Alloy Handling	PM	0.00023	0.00089

Emission	Source Ai	r Contaminant	Emission Rates *		inant <u>Emission Rates</u>	*	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY			
	Monovent "A"	PM ₁₀	0.00011	0.00042			
12	Scrap Steel Handling (4)	PM PM ₁₀	0.48 0.23	1.93 0.91			
13	Baghouse Dust Railcar Fugitives (4)	PM PM ₁₀ Pb Hg Cr Cd	0.00057 0.00027 0.000015 0.000000009 0.00000097 0.00000042	0.0023 0.0011 0.000059 0.00000004 0.0000039 0.0000017			
14	Alloy Piles (4)	PM PM ₁₀	0.079 0.079	0.054 0.054			
15A	Pelletizer Silo Baghouse Stack	PM ₁₀ Pb Hg Cr Cd	0.0324 0.00085 0.0000005 0.000055 0.000024	0.1296 0.0034 0.000002 0.00022 0.000095			
15B	Railcar Loading From Pelletizer Silo (4)	PM PM ₁₀ Pb Hg Cr Cd	0.00057 0.00027 0.000015 0.00000009 0.00000097 0.00000042	0.0023 0.00011 0.000059 0.00000004 0.0000039 0.0000017			
16	Shredder Fugitives (4) and (7) (Permit No. 3026)	PM PM ₁₀	0.0056 0.0024	0.014 0.006			
17	Residue Transfer at Magnetic Separator (4) and (7 (Permit No. 3026)	PM ') PM ₁₀	0.010 0.0049	0.026 0.012			
20A	Unprocessed Residue Storage Pile (4) and (7)	PM ₁₀		0.14			

Emission	Source A	ir Contaminant	Emission Rates	*
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 ₁₀		0.14
22	Vibrating Screen (4) and (7) (Permit No. 3026)	PM PM ₁₀	0.15 0.015	0.65 0.065
23	Material Handling (4) and (7) (Permit No. 3026)	PM PM ₁₀	0.32 0.15	1.41 0.67
24	Fines Storage Pile (4) and (7) (Permit No. 3026)	PM PM ₁₀	 	0.14 0.14
25	Fines and Course Sand Storage (4) and (7) (Permit No. 3026)	PM PM ₁₀		0.14 0.14
26	Light Organic Material Storage (4) and (7) (Permit No. 3026)	PM PM ₁₀		0.14 0.14
30	In-Plant Vehicle Traffic (4)	PM PM ₁₀		34.8 12.5
S1	Slag Raw Feed (4) and (7) (Permit No. 5983)	PM PM ₁₀	3.25 1.63	1.95 0.98
S3	Grizzly to Stock (4) and (7) (Permit No. 5983)	PM PM ₁₀	0.000383 0.00018	0.00023 0.00011

Emission	Source	Air Contaminant	Emission Rates	<u>*</u>
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY_
S4	Grizzly to Conv (4) and (7)	PM	0.0248	0.0149
	(Permit No. 5983)	PM ₁₀	0.0118	0.0071
S5	Conv. to Conv. (4) and (7)	PM	0.0248	0.0149
	(Permit No. 5983)	PM ₁₀	0.0118	0.0071
S6	Conv. to Feeder (4) and (7)	PM	0.062	0.037
	(Permit No. 5983)	PM ₁₀	0.029	0.018
S7	Feeder to Feeder (4) and (7	7) PM	0.0037	0.0022
	(Permit No. 5983)	PM ₁₀	0.0018	0.0011
S8	Feeder to Conv. (4) and (7)	PM	0.0037	0.0022
	(Permit No. 5983)	PM ₁₀	0.0018	0.0011
S9	Conv. to Screen (4) and (7)	PM	0.0037	0.0022
	(Permit No. 5983)	PM ₁₀	0.0018	0.0011
S10	Screen (4) and (7)	PM	0.065	0.039
	(Permit No. 5983)	PM ₁₀	0.031	0.019
S11	Conv. to Conv. (4) and (7)	PM	0.0016	0.0010
	(Permit No. 5983)	PM ₁₀	0.00077	0.00046
S12	Conv. to Conv. (4) and (7)	PM	0.0016	0.0010
	(Permit No. 5983)	PM ₁₀	0.0008	0.00046
S13	Conv. to Screen (4) and (7)	PM	0.0016	0.0010
	(Permit No. 5983)	PM ₁₀	0.000877	0.00046
S14	Screen (4) and (7)	PM	0.028	0.017
	(Permit No. 5983)	PM ₁₀	0.013	0.008
S15	Screen to Conv. (4) and (7)	PM	0.00062	0.00037
	(Permit No. 5983)	PM ₁₀	0.0003	0.00018

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

Emission	Source	Air Contaminant	Emission Rates *	<u> </u>
Point No. (1)	Name (2)	Name (3)	lb/hr	<u>TPY</u>
S16	Conv. to Conv. (4) and (7) (Permit No. 5983)	PM PM ₁₀	0.00062 0.0003	0.00037 0.00018
S17	Conv. to Conv. (4) and (7) (Permit No. 5983)	PM PM ₁₀	0.022 0.0103	0.013 0.0062
S18	Conv. to Bin (4) and (7) (Permit No. 5983)	PM PM ₁₀	0.022 0.0103	0.013 0.0062
S19	Bin to Truck (4) and (7) (Permit No. 5983)	PM PM ₁₀	0.022 0.0103	0.013 0.0062
S20	Screen to Conv. (4) and (7) (Permit No. 5983)	PM PM ₁₀	0.00099 0.00047	0.00059 0.00028
S21	Conveyor to Stock (4) and (7 (Permit No. 5983)	7) PM PM ₁₀	0.00099 0.00047	0.00059 0.00028
S22	Screen to Conveyor (4) and (Permit No. 5983)	(7) PM PM ₁₀	0.0021 0.001	0.00126 0.0006
S23	Conveyor to Stock (4) and (7 (Permit No. 5983)	7) PM PM ₁₀	0.0021 0.001	0.00126 0.0006
S24	Feeder to Feeder (4) and (7) (Permit No. 5983)) PM PM ₁₀	0.0581 0.0277	0.0349 0.0166
S25	Feeder to Conveyor (4) and (Permit No. 5983)	(7) PM PM ₁₀	0.0581 0.0277	0.0349 0.0166
S26	Conveyor to Screen (4) and (Permit No. 5983)	(7) PM PM ₁₀	0.0581 0.0277	0.0349 0.0166
S27	Screen (4) and (7)	PM	1.02	0.61

Emission	Source Air	Contaminant	Emission Rates *	
Point No. (1)	Name (2)	Name (3)	lb/hr	<u>TPY</u>
	(Permit No. 5983)	PM ₁₀	0.484	0.291
S28	Screen to Conveyor (4) and (7) (Permit No. 5983)	PM PM ₁₀	0.0211 0.0101	0.0127 0.0060
S29	Screen to Conveyor (4) and (7) (Permit No. 5983)	PM PM ₁₀	0.037 0.0176	0.0222 0.0106
S30	Conveyor to Crusher (4) and (7) (Permit No. 5983)	PM PM ₁₀	0.056 0.0026	0.0033 0.0016
S31	Crusher With Baghouse (7) (Permit No. 5983)	PM PM ₁₀	0.068 0.032	0.041 0.019
S32	Crusher to Conveyor (4) and (7) (Permit No. 5983)	PM PM ₁₀	0.0056 0.0026	0.0033 0.0016
SBH-1	Crusher Baghouse (7) (Permit No. 5983)	PM PM ₁₀	0.3430 0.3430	0.2 0.2
S33	Conv. to Conv. (4) and (7) (Permit No. 5983)	PM PM ₁₀	0.0370 0.0176	0.022 0.01
S34A	Molten Slag Pot Dump (4) and (5.3 (Permit No. 5983)	7) P	M_{10}	1.1900
S34B	Slag Skul Pot Dump (4) and (7) (Permit No. 5983)	PM PM ₁₀	0.1300 0.0650	0.59 0.29
S35	Front End Loader Drop at Mixing Bldg. (4) and (7) (Permit No. 5983)	PM PM ₁₀	0.4420 0.2210	1.95 0.98
SBH-2/3	FerroCut Baghouse (7)	PM ₁₀	1.6100	1.93

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EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Emission	Source	Air Contaminant	Emission R	ates *
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
	(Permit No. 5983)	NO_X	0.78	3.49
		CO	0.134	0.589
		VOC	0.021	0.092
S37	Stockpile (4) and (7)	PM		0.43
	(Permit No. 5983)	PM_{10}		0.21
S38 Slag Road Emissions (4		nd (7) PM		21.26
	(Permit No. 5983)	PM_{10}		10.63

- (1) Emission point identification either specific equipment designation or emission point number from a plot plan.
- (2) Specific point source names. For fugitive sources use area name or fugitive source name.
- (3) PM particulate matter suspended in the atmosphere, including PM_{10} .
 - PM₁₀ 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 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 454 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:

EMISSIOENSIOERODES OUVRIXIES UMAXIMOUWA BLEGEMASSIOEN RATES

AIR CONTAMINANTS DATA

Emission	Source	Air Contaminant	Emission Rates *	
Point No. (1)	Name (2)	Name (3)	lb/hr TPY	_
24 Hrs/dav	v 7 Davs/week 52	Weeks/vear or 8.760	Hrs/year except for_ <u>8,000</u>	_
	ch electric arc furnace	<u></u>	<u></u>	_

Dated____