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 Point No. (1)	Source Air Name (2)	Contaminant Name (3)	Emission 1b/hr	Rates* TPY
1	A - Baghouse: Canopy Hood for A-Furnace (6)	PM ₁₀ CO	13.0 12.4	51.8 49.7
6	B - Baghouse: Canopy Hood for B-Furnace (6)	PM ₁₀ CO	21.9 21.0	87.4 83.9
7	C - Baghouse: Direct Sh	ell	PM ₁₀	17.4
	Evacuation for A and B Furnace and Melt Shop Scavenger System	CO	552.5	2210.2
4A	Melt Shop Roof Monitor	PM PM ₁₀ CO	10.5 10.5 45.0	42.0 42.0 180.0
4B	Melt Shop Roof Monitor	PM PM ₁₀	10.5 10.5	42.0 42.0
09	Large Section Mill Reheat Furnace (5)	$\begin{array}{c} PM_{10} \\ NO_x \\ SO_2 \\ CO \\ VOC \end{array}$	1.7 72.9 5.0 13.9 0.5	7.6 319.2 0.9 60.8 2.1
08	Air Cascade Separator Auto Shredder Primary Collection System (7) (Permit No. 3026)	PM ₁₀	2.50	2.20

Emission *	Source	Air Contaminant	<u>Emissior</u>	n Rates
Point No. (1)	Name (2)	Name (3)	lb/hrTP\	<u>/</u>
16	Shredder Fugitives ((4) and (7)	PM	0.0056
	(Permit No. 3026)	PM_{10}	0.0024	0.006
17	Residue Transfer at 0.026	Magnetic	PM	0.010
	Separator (4) and 0.012 (Permit No. 3026)		PM ₁₀	0.0049
20A	Unprocessed Residue Storage Pile (4) (Permit No. 3026)	and (7)		0.14
21	Residue Storage Pil Separation Facili and (7) (Permit N	ty (4)	PM_{10}	0.14
22	Vibrating Screen (4	1) and (7)	PM	0.15
	0.65 (Permit No. 3026)	PM ₁₀	0.015	0.065
23	Material Handling (1.41	(4) and (7)	PM	0.32
	(Permit No. 3026)	PM ₁₀	0.15	0.67
24	Fines Storage Pile (Permit No. 3026)		PM 	0.14 0.14
25	Fines and Course Sa Storage (4) and ((Permit No. 3026)	(7) PM ₁₀		0.14 0.14
26	Light Organic Mater	rial PM		0.14

Emission	Source	Air Contaminant	<u>Emissio</u>	n Rates
Point No. (1)	Name (2)	Name (3)	lb/hrTP	Υ
	Storage (4) and 77 (Permit No. 3026)) PM ₁₀		0.14
S1	Slag Raw Feed (4) au	nd (7)	PM	0.4420
	(Permit No. 5983)	PM ₁₀	0.2210	1.0
S3	Grizzly to Stock (4) <0.01) and (7)	PM	0.0004
	(Permit No. 5983)	PM_{10}	0.0002	<0.01
S4	Grizzly to Conveyor <0.01	(4)	РМ	0.0248
	and (7) (Permit No <0.01	o. 5983)	PM ₁₀	0.0118
S5	Conveyor to Conveyor	r (4)	PM	0.0248
	and (7) (Permit No <0.01	o. 5983)	PM ₁₀	0.0118
S6	Conveyor to Feeder and (7) (Permit No <0.01		0.0618 PM ₁₀	<0.01 0.0294
S7	Feeder to Feeder (4) <0.01) and (7)	PM	0.0037
	(Permit No. 5983)	PM ₁₀	0.0018	<0.01
S8	Feeder to Conveyor and (7) (Permit No <0.01		0.0037 PM ₁₀	<0.01 0.0018
S9	Conveyor to Screen	(4) PM	0.0037	<0.01

Emission *	Source	Air Contaminant	<u>Emissio</u>	n Rates
Point No. (1)	Name (2)	Name (3)	lb/hrTP	Υ
	and (7)(Permit No <0.01	. 5983)	PM_{10}	0.0018
S10	Screen (4) and (7) (Permit No. 5983)	PM PM ₁₀	0.0649 0.0309	<0.01 <0.01
S11	Conveyor to Conveyor	r (4)	PM	0.0016
	and (7) (Permit No <0.01	o. 5983)	PM_{10}	0.0008
S12	Conveyor to Conveyor	r (4)	PM	0.0016
	and (7) (Permit No <0.01	o. 5983)	PM ₁₀	0.0008
S13	Conveyor to Screen and (7) (Permit No		0.0016 PM ₁₀	<0.01 0.0008
S14	Screen (4) and (7) (Permit No. 5983)	PM PM ₁₀	0.0281 0.0134	<0.01 <0.01

Emission	Source	Air Contaminant	<u>Emissio</u>	n Rates
Point No. (1)	Name (2)	Name (3)	lb/hrTP	Υ
S15	Screen to Conveyor and (7) (Permit N <0.01		0.0006 PM ₁₀	<0.01 0.0003
S16	Conveyor to Conveyor <0.01 and (7) (Permit N		PM PM ₁₀	0.0006 0.0003
S17	<0.01 Conveyor to Conveyo	or (4)	РМ	0.0217
	and (7) (Permit N <0.01	lo. 5983)	PM ₁₀	0.0103
S18	Conveyor to Bin (4) <0.01 (Permit No. 5983)		PM 0.0103	0.0217 <0.01
S19	Bin to Truck (4) ar <0.01 (Permit No. 5983)	nd (7)	0.0103 PM 0.0103	0.0217
S20	Screen to Conveyor and (7) (Permit N < 0.01	(4) PM	0.0010 PM ₁₀	<0.01 0.0005
SBH-1	Crusher Baghouse (4		PM	0.3430
	(Permit No. 5983)	PM ₁₀	0.1630	0.1
S33	Conveyor to Conveyo	or (4)	PM	0.0370
	and (7) (Permit N <0.01	lo. 5983)	PM ₁₀	0.0176

AIR CONTAMINANTS DATA

Emission *	Source	Air Contaminant	<u>Emissio</u>	n Rates
Point No. (1)	Name (2)	Name (3)	lb/hrTP	Υ
S34A	Molten Slag Pot Dump (4) and (7) (Permit No. 5983)	PM_{10}	1.1900	5.3
S34B	Slag Skul Pot Dump (4) and (7) (Permit No. 5983)	PM PM ₁₀	0.1300 0.0650	0.6 0.3
S35	Front End Loader Dro 2.0 Mixing Building (4 1.0 (Permit No. 5983)		PM PM ₁₀	0.4420
SBH-2/3	FerroCut Baghouse (4) and ((Permit No. 5983)	PM ₁₀ (7)	1.6100	1.9
S37	Stockpile (4) and (7 (Permit No. 5983)			0.5 0.2
S38	Slag Road Emissions (4) and (Permit No. 5983)	PM (7)	 PM ₁₀	21.3 10.6

⁽¹⁾ Emission point identification - either specific equipment designation or emission point number from plot plan.

organic compounds as defined in General Rule 101.1 \mbox{NO}_x – total oxides of nitrogen

⁽²⁾ Specific point source name. For fugitive sources use area name or fugitive source name.

⁽³⁾ VOC -volatile

AIR CONTAMINANTS DATA

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

CO - carbon monoxide

PM - particulate matter, suspended in the atmosphere, including 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.

SO₂ - sulfur dioxide

- (4) Fugitive emissions are an estimate only.
- (5) Hourly emissions are based on a maximum design firing rate of $\underline{120}$ MMBtu/hr, based on a lower heating value (LHV) of the fuel (i.e., natural gas). Annual emissions are based on firing the furnace for a maximum of $\underline{5,600}$ hrs/yr, during which the average firing rate will be less than equal to 60 MMBtu/hr (LHV).
- (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:

Hrs/day 24 Days/week 7 Weeks/year 52 or Hrs/year 8,760 Except 8,000 Hrs/year molten steel production