

# EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Numbers 53581 and PSD-TX-1029

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.

## AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lb/hr	TPY
BAGHSMS	Meltshop Baghouse Stack - EAF, LMF, Caster	PM/PM <sub>10</sub> (total)	55.55	243.31
		PM/PM <sub>10</sub> (filterable)	34.21	149.86
		NO <sub>x</sub>	215.52	578.61
		CO	537.89	1444.08
		SO <sub>2</sub>	421.68	1132.09
		VOC	103.92	279.00
		Benzene	1.00	4.38
		Pb	0.88	2.70
		Sb 0.0062	0.27	
		As 0.015	0.045	
		Be 0.0009	0.00115	
		Cd 0.051	0.109	
		Cr 0.26	0.88	
		Cu 0.23	0.77	
		Mn 1.28	5.0	
		Hg 0.4	1.08	
		Ni 0.026	0.101	
		Se 0.023	0.100	
		Ag 0.0092	0.0101	
		Tl 0.029	0.11	
		V 0.070	0.22	
		Zn 13.10	41.40	
CASTERVENT	West LMF/Caster Building Vents - Ladle Preheaters, Tundish Burners, Reline Preheaters, Tundish Dryers, LMF Preheaters	PM/PM <sub>10</sub>	11.63	25.78
		NO <sub>x</sub>	6.36	26.26
		CO	5.34	22.06
		SO <sub>2</sub>	0.04	0.16
		VOC	0.35	1.44
		Pb	0.05	0.10

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lb/hr	TPY
RUNOUTVENT	Billet Caster Runout Building Vents - Autotorch	PM/PM <sub>10</sub>	4.94	9.90
		NO <sub>x</sub>	0.09	1.68
		CO	0.08	1.41
		SO <sub>2</sub>	<0.01	0.01
		VOC	0.01	0.09
		Pb	0.0001	0.0001
FINISHVENT	Billet Bay Building and Rolling Mill Building Vents	PM/PM <sub>10</sub>	45.31	122.43
		Pb	0.0005	0.002
ATXI	Texas I Reheat Station (5)	PM/PM <sub>10</sub>	1.35	5.91
		NO <sub>x</sub>	16.29	71.35
		CO	14.91	65.29
		SO <sub>2</sub>	0.11	0.47
		VOC	0.98	4.28
ATXII	Texas II Reheat Station (5)	PM/PM <sub>10</sub>	1.56	6.85
		NO <sub>x</sub>	18.90	82.78
		CO	17.29	75.75
		SO <sub>2</sub>	0.12	0.54
		VOC	1.13	4.96
SLAGDUMP	Slag Pot Dump Pile (4)	PM	0.38	1.16
		PM <sub>10</sub>	0.18	0.56
		Pb	0.0004	0.001
SLAGPROC	Slag/Mill Scale Processing (4)	PM	1.23	0.91
		PM <sub>10</sub>	0.58	0.44
		Pb	0.001	0.001
FUGLANCE	Outdoor Scrap Lancing (4)	PM/PM <sub>10</sub>	2.03	2.14
		CO	0.79	2.02
		NO <sub>x</sub>	0.94	2.40
		SO <sub>2</sub>	<0.01	0.01
		VOC	0.05	0.13
TEAROUT Dump (4)	Ladle Tearout and Tundish	PM	0.31	0.82
		PM <sub>10</sub>	0.14	0.39
		Pb	0.0003	0.0009
CLEANOUT	EAF Drop Out Box and Spray	PM	0.55	0.05

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			lb/hr	TPY
	Chamber Clean-out (4)	PM <sub>10</sub>	0.26	0.02
		Pb	0.019	0.001
ALLOYDUMP	Alloy Truck Dump (4)	PM	0.04	<0.01
		PM <sub>10</sub>	0.02	<0.01
ALLOYBUNKR	Alloy Storage Bunker (4)	PM	0.04	0.16
		PM <sub>10</sub>	0.02	0.08
DOLOSILO	Texas I Dolomite Storage Bin Vent	PM/PM <sub>10</sub>	0.03	0.006
LIMEBIN1	Lime Silo No. 1 Bin Vent	PM/PM <sub>10</sub>	0.01	0.001
LIMEBIN2	Lime Silo No. 2 Bin Vent	PM/PM <sub>10</sub>	0.01	0.001
DOLOBIN1	Dolomite Silo No. 1 Bin Vent	PM/PM <sub>10</sub>	0.01	0.001
CARBONBIN	Carbon Silo Bin Vent	PM/PM <sub>10</sub>	0.01	0.002
CARBONBIN2	Carbon Silo No. 2 Bin Vent	PM/PM <sub>10</sub>	<0.01	0.001
CARBONSILO	Carbon Storage Bin Vent	PM/PM <sub>10</sub>	0.03	0.01
SCALPITXI	Texas I Mill Scale Clean Out (4)	PM	0.62	0.13
		PM <sub>10</sub>	0.29	0.06
		Pb	0.000007	0.000001
SCALPITXII	Texas II Mill Scale Clean Out (4)	PM	0.62	0.13
		PM <sub>10</sub>	0.29	0.06
		Pb	0.000007	0.000001
SCALPITCST	Caster Mill Scale Clean Out (4)	PM	0.62	0.13
		PM <sub>10</sub>	0.29	0.06
		Pb	0.000007	0.000001
SCALPITRM	Roll Mill Scale Clean Out (4)	PM	0.62	0.13
		PM <sub>10</sub>	0.29	0.06

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lb/hr	TPY
		Pb	0.000007	0.000001
CASTSPRAYW	Caster Spray Chamber West Exhaust	PM/PM <sub>10</sub>	0.02	0.08
CASTSPRAYE	Caster Spray Chamber East Exhaust	PM/PM <sub>10</sub>	0.02	0.08
CWTCCRMI	Texas I Contact Cooling Tower	PM/PM <sub>10</sub>	0.10	0.41
CWTNCRMI	Texas I Non-Contact Cooling Tower	PM/PM <sub>10</sub>	0.28	1.21
CWTNCRMI2	Texas I Non-Contact Cooling Tower 2	PM/PM <sub>10</sub>	0.06	0.27
NCPONDRMI	Texas I Cooling Water Pond	PM/PM <sub>10</sub>	0.23	1.03
CWTCHILLER	Texas II Chiller Tower	PM/PM <sub>10</sub>	0.17	0.75
CWTNCMS	New Melt Shop Cooling Tower	PM/PM <sub>10</sub>	0.30	1.33
SCRAPSTGPR	Scrap Unloading Area Primary (4)	PM	0.83	0.89
		PM <sub>10</sub>	0.40	0.44
		Pb	0.002	0.002
SCRAPSTGN	Scrap Storage Area North (4)	PM	2.67	6.19
		PM <sub>10</sub>	1.30	3.08
		Pb	0.005	0.012
SCRAPSTGS	Scrap Storage Area South (4)	PM	1.66	1.78
		PM <sub>10</sub>	0.79	0.88
		Pb	0.003	0.003

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates</u>	
			lb/hr	TPY
SCRAPTRKW	Scrap Truck Dump West (4)	PM	0.19	0.63
		PM <sub>10</sub>	0.09	0.30
		Pb	0.0004	0.001
SCRAPTRKE	Scrap Truck Dump East (4)	PM	0.19	0.63
		PM <sub>10</sub>	0.09	0.30
		Pb	0.0004	0.001
SCRAPSTGNW	Scrap Storage Area Northwest (4)	PM	0.98	1.53
		PM <sub>10</sub>	0.47	0.76
		Pb	0.002	0.003
LANDFILL	Non-hazardous Landfill Area (4)	PM	0.71	2.70
		PM <sub>10</sub>	0.35	1.35
CAMU	Corrective Action Management Unit (4)	PM	0.64	2.38
		PM <sub>10</sub>	0.32	1.19
		Pb	0.02	0.055
FUELLOCOD	Locomotive Fueling Station Diesel Tank	VOC	<0.01	<0.01
FUELSLAGD1	Slag Fueling Station Diesel Tank No. 1	VOC	<0.01	<0.01
FUELSLAGD2	Slag Fueling Station Diesel Tank No. 2	VOC	<0.01	<0.01
FUELSLAGG	Slag Fueling Station Gasoline Tank	VOC	0.57	0.87
FUELMSD	Melt Shop Fueling Station Diesel Tank	VOC	<0.01	<0.01
FUELMSG	Melt Shop Fueling Station Gasoline Tank	VOC	0.88	0.68

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates</u>	
			lb/hr	TPY
FUELLUBEG	Lube Fueling Station Gasoline Tank	VOC	0.88	0.68
FUGEAF	EAF Building Fugitives (4)	PM	7.43	19.94
		PM <sub>10</sub>	4.31	11.57
		NO <sub>x</sub>	<0.01	0.01
		CO	0.11	0.29
		SO <sub>2</sub>	<0.01	0.01
		VOC	<0.01	0.01
		Pb	0.25	0.463
FUGLMF	LMF/Caster Building Fugitives (4)	PM	6.54	17.56
		PM <sub>10</sub>	3.79	10.18
		NO <sub>x</sub>	2.24	6.03
		CO	1.33	3.57
		SO <sub>2</sub>	4.22	11.33
		VOC	0.04	0.10
		Pb	0.01	0.03
FUELSCRAP	Scrap Vehicle Fueling Diesel Tank	VOC	<0.01	0.01
FUELSHIP	Shipping Vehicle Fueling Diesel Tank	VOC	<0.01	<0.01
FUELPUMP	Cooling Water Emergency Pumps Fuel Tank	VOC	<0.01	<0.01
FUGTIRE	Tire Handling and Processing (4)	PM	0.16	0.65
		PM <sub>10</sub>	0.08	0.32
FUELBHD	Baghouse Fueling Station Diesel Tank	VOC	<0.01	<0.01

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- (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<sub>10</sub> - particulate matter 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 Title 30 Texas Administrative Code § 101.1  
Pb - lead  
Sb - antimony  
As - arsenic  
Be - beryllium  
Cd - cadmium  
Cr - chromium  
Cu - copper  
Mn - manganese  
Hg - mercury  
Ni - nickel  
Se - selenium  
Ag - silver  
Tl - thallium  
V - vanadium  
Zn - zinc
- (4) Fugitives are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) Until new or retrofitted low NO<sub>x</sub> reheat furnaces are installed, refer to Permit Numbers 2430 and PSD-TX-128 (EPNs 13 and 24) for maximum allowable emission rates.

Dated August 4, 2005