Emission Sources - Maximum Allowable Emission Rates

Permit Numbers 53581 and PSDTX1029M2

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, sources, and related activities. 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 (7)	
			lbs/hour	TPY (4)
BAGHSMS	Meltshop Baghouse Stack FINs: EAF, LMS, Caster, LADLETO, TUNDDUMP, VTD, and Lime Bin 3	PM (total)	55.55	243.31
		PM (filterable)	34.21	149.86
		PM_{10} (total)	55.55	243.31
		PM_{10} (filterable)	34.21	149.86
		$PM_{2.5}$ (total)	54.02	236.61
		$PM_{2.5}$ (filterable)	34.21	149.86
		NO_x	283.77	673.50
		CO	1124.43	1701.08
		SO_2	555.21	1317.75
		VOC	136.83	324.75
		Exempt Solvents	0.07	0.32
		Benzene	1.32	5.10
		Pb	0.03	0.15
		Fluoride	0.23	1.00
		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	5.00

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		Hg	0.40	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 LMS/Caster Building Vents FINS: CASTERVENT, LADLEPREHT, TUNDPREHT, RLINEPREHT, TUNDDRY, TUNDNZLHT (5)	PM	15.60	30.15
		PM_{10}	12.08	23.50
		$PM_{2.5}$	8.56	16.85
		NO_x	12.25	32.22
		CO	10.29	27.07
		SO_2	0.07	0.19
		VOC	0.68	1.81
		Exempt Solvents	0.004	0.02
		Pb	0.02	0.03
		Fluoride	0.0005	0.0011
RUNOUTVENT	Billet Caster Runout Building Vents FINs: Caster, Torch (5)	PM	6.55	11.53
		PM_{10}	5.57	9.82
		$PM_{2.5}$	3.30	5.84
		NO_x	0.75	1.92
		CO	0.63	1.62
		SO_2	0.005	0.012
		VOC	0.19	0.75
		Exempt Solvents	0.08	0.34
		Pb	0.0001	0.0001

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		Fluoride	0.010	0.023
FINISHVENT	Rolling Mill and Billet Storage Building Vents (5)	PM	56.64	142.58
		PM_{10}	48.66	122.49
		$PM_{2.5}$	19.20	48.34
		VOC	3.38	14.82
		Exempt Solvents	1.78	7.78
		Pb	0.0005	0.0019
REHEATXI	TEXAS I Reheat Station Stack	PM	1.35	5.91
		PM_{10}	1.35	5.91
		$PM_{2.5}$	1.35	5.91
		CO	14.91	65.29
		NO_x	16.29	71.35
		SO_2	0.11	0.47
		VOC	0.98	4.27
REHEATXII	TEXAS II Reheat Station Stack	PM	1.54	6.08
		PM_{10}	1.54	6.08
		$PM_{2.5}$	1.54	6.08
		CO	10.35	40.82
		NO_x	15.53	61.23
		SO_2	0.12	0.48
		VOC	1.12	4.40

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SLAGDUMP	Slag Pot Dump Pile (5)	PM	0.48	1.42
		PM_{10}	0.23	0.68
		$PM_{2.5}$	0.03	0.10
		Pb	0.00001	0.00004
SLAGPROC	Slag/Mill Scale Processing (5)	PM	2.55	1.12
		PM_{10}	1.17	0.46
		$PM_{2.5}$	0.17	0.06
		Pb	0.00007	0.00003
FUGLANCE	Outdoor Scrap Lancing (5)	PM	2.03	2.14
		PM_{10}	2.03	2.14
		$PM_{2.5}$	2.03	2.14
		NO_x	0.94	2.40
		CO	0.79	2.02
		SO_2	0.01	0.01
		VOC	0.05	0.13
		Pb	0.00002	0.00002
TEAROUT	Ladle Tearout and Tundish Dump (5)	PM	1.09	0.40
		PM_{10}	0.52	0.19
		$PM_{2.5}$	0.08	0.03
		Pb	0.00003	0.00001
CLEANOUT	EAF Drop Out Box (5)	PM	0.55	0.46
		PM_{10}	0.26	0.02
		$PM_{2.5}$	0.04	0.003
		Pb	0.001	0.0001
ALLOYDUMP	Alloy Dump To Larry Car (5)	PM	0.08	0.02
		PM_{10}	0.04	0.01

Emission Sources - Maximum Allowable Emission Rates

		$PM_{2.5}$	0.006	0.002
ALLOYBUNKR	Alloy Storage Bunkers (5)	PM	0.05	0.16
		PM_{10}	0.02	0.08
		$PM_{2.5}$	0.003	0.008
LIMEBIN1	Lime Silo No. 1 Bin Vent	PM	0.007	0.005
		PM_{10}	0.007	0.005
		$PM_{2.5}$	0.003	<0.003
LIMEBIN2	Lime Silo No. 2 Bin Vent	PM	0.007	0.008
		PM_{10}	0.007	0.008
		$PM_{2.5}$	0.003	0.004
DOLOBIN1	Dolomite Silo No. 1 Bin Vent	PM	0.007	0.015
		PM_{10}	0.007	0.015
		$PM_{2.5}$	0.003	0.007
CARBONBIN2	Carbon Silo No. 2 and No. 4 to Common Bin Vent	PM	0.003	0.004
		PM_{10}	0.003	0.004
		$PM_{2.5}$	0.001	0.002
CARBONBIN	Carbon Silo and Carbon Bin 3 to Common Bin Vent	PM	0.011	0.03
		PM_{10}	0.011	0.03
		$PM_{2.5}$	0.006	0.013
SCALPITXI	Texas I Mill Scale Cleanout (5)	PM	0.96	0.19
		PM_{10}	0.45	0.09
		$PM_{2.5}$	0.07	0.01
		Pb	<0.00001	<0.00001
SCALPITXII	Texas II Mill Scale Cleanout (5)	PM	0.96	0.19
		PM_{10}	0.45	0.09
		$PM_{2.5}$	0.07	0.01

Emission Sources - Maximum Allowable Emission Rates

		Pb	<0.00001	<0.00001
SCALPITCST	Caster Mill Scale Cleanout (5)	PM	0.96	0.19
		PM_{10}	0.45	0.09
		$PM_{2.5}$	0.07	0.01
		Pb	<0.00001	<0.00001
SCALPITRM	Roll Mill Scale Cleanout (5)	PM	1.92	0.38
		PM_{10}	0.91	0.18
		$PM_{2.5}$	0.14	0.03
		Pb	<0.00002	<0.00001
CASTSPRAYW	Caster Spray Chamber Exhaust (West)	PM	0.026	0.100
		PM_{10}	0.019	0.075
		$PM_{2.5}$	0.0001	0.0002
		VOC	0.59	2.59
		Exempt Solvents	0.31	1.36
		Fluoride	0.014	0.034
CASTSPRAYE	Caster Spray Chamber Exhaust (East)	PM	0.026	0.100
		PM_{10}	0.019	0.075
		$PM_{2.5}$	0.0001	0.0002
		VOC	0.59	2.59
		Exempt Solvents	0.31	1.36
		Fluoride	0.014	0.034
CWTCCRMI	Texas I Contact Cooling Tower	PM	0.088	0.384
		PM_{10}	0.049	0.214
		$PM_{2.5}$	0.0002	0.0008
CWTNCRMI	Roll Mill Non-Contact Cooling Tower	PM	0.050	0.218
		PM_{10}	0.028	0.122

Emission Sources - Maximum Allowable Emission Rates

		$PM_{2.5}$	0.0001	0.0005
CWTCHILLER	Texas II Chiller Tower	PM	0.016	0.068
		PM_{10}	0.009	0.038
		$PM_{2.5}$	0.00003	0.00014
CWTNCMS	New Melt Shop Cooling Tower	PM	0.563	2.466
		PM_{10}	0.314	1.377
		$PM_{2.5}$	0.001	0.005
SCRAPSTGPR	Scrap Unloading Area Primary (5)	PM	0.94	0.93
		PM_{10}	0.45	0.46
		$PM_{2.5}$	0.07	0.07
		Pb	0.002	0.002
SCRAPSTGN	Scrap and Tire Storage Area North (5)	PM	2.89	6.27
		PM_{10}	1.40	3.12
		$PM_{2.5}$	0.23	0.08
		Pb	0.005	0.012
SCRAPSTGS	Scrap Storage Area South (5)	PM	1.89	1.86
		PM_{10}	0.90	0.91
		$PM_{2.5}$	0.23	0.08
		Pb	0.004	0.003
SCRAPTRKE	Scrap Truck Dump Area (5)	PM	0.19	0.71
		PM_{10}	0.09	0.34
		$PM_{2.5}$	0.02	0.08
		Pb	0.0004	0.0013

Emission Sources - Maximum Allowable Emission Rates

SCRAPSTGNW	Scrap Storage Area Northwest (5)	PM	1.09	1.57
		PM_{10}	0.52	0.78
		$PM_{2.5}$	0.11	0.04
		Pb	0.002	0.003
LANDFILL	Non-Hazardous Landfill Area (5)	PM	0.71	2.70
		PM_{10}	0.35	1.35
		$PM_{2.5}$	0.05	0.20
CAMU	Corrective Action Management Unit (5)	PM	0.64	2.38
		PM_{10}	0.32	1.19
		$PM_{2.5}$	0.05	0.18
		Pb	0.01	0.04
FUELLOCOD	Locomotive Fueling Station Diesel Tank	VOC	0.002	0.003
FUELSLAGD1	Slag Fueling Station Diesel Tank #1	VOC	<0.001	0.001
FUELSLAGD2	Slag Fueling Station Diesel Tank #2	VOC	0.006	0.006
FUELSLAGG	Slag Fueling Station Gasoline Tank	VOC	0.58	0.82
FUELMOBD	Mobile Maintenance Diesel Tank	VOC	0.003	0.001
FUELMOBG	Mobile Maintenance Gasoline Tank	VOC	0.58	0.80
FUELLUBEG	Lube Fuel Station Gasoline Tank	VOC	0.86	0.47
FUELSCRAP	Scrap Vehicle Fueling Diesel Tank	VOC	0.005	0.01
FUELSHIP	Shipping Vehicle Fueling Diesel Tank	VOC	0.002	0.003
FUELPUMP	Cooling Water Emergency Pumps Fuel Tank	VOC	0.005	<0.001
FUELBHD	Baghouse Fueling Station Diesel Tank	VOC	0.003	<0.001
FUGEAF	EAF Building Fugitives	PM	9.78	23.21

Emission Sources - Maximum Allowable Emission Rates

		PM_{10}	5.67	13.46
		$PM_{2.5}$	5.06	12.00
		NO_x	0.002	0.006
		CO	0.14	0.34
		SO_2	0.003	0.007
		VOC	0.003	0.008
		Pb	0.01	0.024
FUGLMS	LMS/Caster Building Fugitives (5)	PM	8.61	20.44
		PM_{10}	4.99	11.85
		$PM_{2.5}$	4.45	10.57
		NO_x	2.95	7.01
		CO	2.17	5.16
		SO_2	5.56	13.19
		VOC	0.05	0.11
		Pb	0.009	0.021
		Fluoride	0.021	0.090
PLASMA	Meltshop Cutting Emissions (5)	PM	2.32	2.38
		PM_{10}	2.32	2.38
		$PM_{2.5}$	2.32	2.38
		NO_x	0.007	0.01
		CO	0.006	0.008
		SO_2	<0.0001	<0.0001
		VOC	<0.0004	0.001
		Pb	<0.0002	0.0002

Emission Sources - Maximum Allowable Emission Rates

BLAST	Abrasive Blasting (5)	PM	2.75	12.03
		PM_{10}	0.33	1.43
		$PM_{2.5}$	0.05	0.21
BLASTBILL	Round Billet Blasting (5)	PM	4.28	18.74
		PM_{10}	1.02	4.45
		$PM_{2.5}$	0.15	0.67
BLASTCAB	Abrasive Blast Cabinet Baghouse Stack	PM	0.13	0.56
		PM_{10}	0.13	0.56
		$PM_{2.5}$	0.13	0.56
BILLCUT	Billet Cutting (5)	PM	0.01	0.01
		PM_{10}	0.01	0.01
		$PM_{2.5}$	0.01	0.01
HWBLR1	Heating Water Boiler #1	PM	0.02	0.07
		PM_{10}	0.02	0.07
		$PM_{2.5}$	0.02	0.07
		NO_x	0.22	0.96
		CO	0.18	0.81
		SO_2	0.001	0.006
		VOC	0.01	0.05
HWBLR2	Heating Water Boiler #2	PM	0.02	0.07
		PM_{10}	0.02	0.07
		$PM_{2.5}$	0.02	0.07
		NO_x	0.22	0.96
		CO	0.18	0.81
		SO_2	0.001	0.006
		VOC	0.01	0.05

Emission Sources - Maximum Allowable Emission Rates

CBLR1	Domestic Boiler #1	PM	0.003	0.013
		PM_{10}	0.003	0.013
		$PM_{2.5}$	0.003	0.013
		NO_x	0.04	0.17
		CO	0.03	0.14
		SO_2	<0.001	0.001
		VOC	0.002	<0.01
CBLR2	Domestic Boiler #2	PM	0.003	0.013
		PM_{10}	0.003	0.013
		$PM_{2.5}$	0.003	0.013
		NO_x	0.04	0.17
		CO	0.03	0.14
		SO_2	<0.001	0.001
		VOC	0.002	<0.01
SLAGPREHT	Slag Pot Preheater (5)	PM	0.08	0.04
		PM_{10}	0.08	0.04
		$PM_{2.5}$	0.08	0.04
		NO_x	0.98	0.49
		CO	0.82	0.41
		SO_2	0.006	0.003
		VOC	0.05	0.03
BULBCRSH	Bulb Crusher (5)	PM	<0.00001	<0.00001
		PM_{10}	<0.00001	<0.00001
		$PM_{2.5}$	<0.00001	<0.00001
EWP	Emergency Cooling Water Pump Engine (6)	PM	1.36	0.07
		PM_{10}	1.36	0.07

Emission Sources - Maximum Allowable Emission Rates

		$PM_{2.5}$	1.36	0.07
		NO_x	19.13	0.96
		CO	4.12	0.21
		SO_2	1.27	0.06
		VOC	1.52	0.08
CWTTXIIRF	Texas II Reheat Furnace Cooling Tower	PM	0.010	0.044
		PM_{10}	0.006	0.024
		$PM_{2.5}$	<0.0001	<0.0001
FUELEAF	EAF Building Diesel Tank	VOC	0.003	<0.001
DOCFUG	Drop-Out Chamber Storage and Loading (5)	PM	0.28	0.04
		PM_{10}	0.13	0.02
		$PM_{2.5}$	0.02	<0.01
ALL	All Sources	Any HAP	-	<10.00
		All HAPS	-	<25.00

(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) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
NO_x - total oxides of nitrogen
SO_2 - sulfur dioxide
PM - total particulate matter, suspended in the atmosphere, including PM_{10} and $PM_{2.5}$, as represented
PM_{10} - total particulate matter equal to or less than 10 microns in diameter, including $PM_{2.5}$, as represented
$PM_{2.5}$ - particulate matter equal to or less than 2.5 microns in diameter
CO - carbon monoxide
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

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Zn - zinc
HAP - hazardous air pollutant as listed in § 112(b) of the Federal Clean Air Act or Title 40 Code of Federal Regulations Part 63, Subpart C

(4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.
(5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.
(6) Limited to 100 hours per year of non-emergency operation.
(7) Planned startup and shutdown emissions are included. Maintenance activities are not authorized by this permit and will need separate authorization unless the activity can meet the conditions of 30 TAC §116.119.

Date: May 11, 2018