EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 42623

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	
			lbs/hour	TPY (4)
BH-1	Cullet Crushing Baghouse	PM	0.08	0.31
		PM_{10}	0.08	0.31
RMS	Raw Material Silo Vent - Cullet Silos (3 Units) Baghouse, Soda Ash Silos (2 Units) Baghouse, Limestone Silos (2 Units) Baghouse, Aplite Silo Baghouse, Spare Silo Baghouse, Melite Silo Baghouse, Saltcake Silo Baghouse, Aborted Batch Silo Baghouse, and Slag Silo Baghouse	PM	0.71	2.80
		PM_{10}	0.71	2.80
BH-13	Sand Unloading Hopper Baghouse	PM	0.11	0.42
		PM_{10}	0.11	0.42
BH-14	Sand Silos (2 Units) Baghouse	PM	0.06	0.21
		PM_{10}	0.06	0.21

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MB	Mixer Building - Gathering Belt Conveyor Baghouse, Weighed Batch Elevator and Check Scale Baghouse, Cullet Weighed Batch Conveyor Baghouse, Batch Mixer, Carbocite Bag Dump	PM	2.03	4.54
		PM_{10}	0.93	2.28
BH-19	Mixed Batch Elevator Baghouse	PM	0.06	0.23
		PM_{10}	0.06	0.23
BH-21	LHS Daybin Baghouse	PM	0.07	0.29
		PM_{10}	0.07	0.29
BH-22	RHS Daybin Baghouse	PM	0.06	0.24
		PM_{10}	0.06	0.24
BH-23	Raw Material Bucket Elevator Baghouse	PM	0.06	0.24
		PM_{10}	0.06	0.24
BH-24	Sand Unloading Bucket Elevator Baghouse	PM	0.05	0.17
		PM_{10}	0.05	0.17
Furnace	Glass Melting Furnace	PM (6)	25.00	109.50
		PM_{10} (6)	25.00	109.50
		VOC	5.00	21.90
		NO_x	37.00	162.06
		SO_2	53.74	235.40
		CO	5.00	21.90
FB	Furnace Building	PM (7)	2.74	11.96

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	Ventilation - Belt Burners (3 Units), Hot End Coating Hoods, Distribution Chamber, Forehearths (3 Units), Feeders (6 Units), Glass Forming Machines (3 Units), Abrasive Blast Furnace Building	PM_{10} (7)	1.54	6.74
		$PM_{2.5}$ (7)	0.87	3.79
		VOC	0.66	2.90
		NO_x	3.77	16.53
		SO_2	2.28	11.50
		CO	2.65	11.57
		HCl	0.41	1.80
		MBTC	0.96	4.20
BO-1	Mold and Burn-Off Ovens (3 Units)	PM	0.02	0.07
		PM_{10}	0.02	0.07
		VOC	0.01	0.05
		NO_x	0.20	0.88
		SO_2	<0.01	0.01
		CO	0.17	0.74
CULLET	Silo Transfer Hopper (5)	PM	0.10	0.43
		PM_{10}	0.05	0.20
MOLD	Mold Shop Baghouse - Bead Blaster, Grinding and Sanding Tools, Welding	PM	0.51	2.25
		PM_{10}	0.51	2.25
VAC	Mini Vec Loader and Propane Motor	PM	0.06	0.25
		PM_{10}	0.06	0.25
		VOC	<0.01	<0.01

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		NO_x	0.01	0.04
		SO_2	<0.01	<0.01
		CO	<0.01	0.01
PILE-A	Working Cullet Pile (5)	PM	--	0.04
		PM_{10}	--	0.02
PILE-B	Long Term Cullet Storage Pile (5)	PM	--	0.03
		PM_{10}	--	0.02
PB	Packaging Building Ventilation - Packing Room Space Heaters, LEHR Unit 1, LEHR Unit 2, LEHR Unit 3, Parts Washers (3 Units), Video Jet Ink, Video Jet Solvent	PM	0.12	0.54
		PM_{10}	0.12	0.54
		VOC	1.92	8.41
		NO_x	1.62	7.10
		SO_2	0.01	0.04
		CO	1.36	5.96
BH-10-0001	Raw Materials Unloading Hopper and Raw Materials Conveyor Baghouse	PM	0.15	0.67
		PM_{10}	0.12	0.55
		$PM_{2.5}$	0.05	0.24
BH-10-0002	Raw Materials Conveyor and Raw Materials Elevator Baghouse	PM	0.12	0.52
		PM_{10}	0.10	0.42
		$PM_{2.5}$	0.04	0.18
BH-10-0003	Truck Unloading Hopper Baghouse	PM	0.34	1.50
		PM_{10}	0.28	1.21
		$PM_{2.5}$	0.12	0.52
BH-10-0004	Sand Scale and Weighed Sand Conveyor Baghouse	PM	0.13	0.56
		PM_{10}	0.10	0.45

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		$PM_{2.5}$	0.05	0.20
BH-10-0005	Minor and Major Scales Baghouse	PM	0.19	0.82
		PM_{10}	0.15	0.67
		$PM_{2.5}$	0.07	0.29
BH-10-0006	Mixed Batch Conveyor Baghouse	PM	0.06	0.26
		PM_{10}	0.05	0.21
		$PM_{2.5}$	0.02	0.09
LLRMS	Lower Level Raw Material Silo - Sand Belt Conveyor Baghouse, Major Scale, Minor Scale, Cullet Scale, Sand Scale	PM	6.73	4.84
		PM_{10}	2.73	2.12
BOOTH-1	Graphite Booth	PM	0.03	0.13
		PM_{10}	0.03	0.13
CONV1	Cullet Loading Conveyor (5)	PM	0.07	0.32
		PM_{10}	0.03	0.13
B-1	Water Heaters (3 Units)	PM	0.01	0.04
		PM_{10}	0.01	0.04
		VOC	0.01	0.03
		NO_x	0.08	0.33
		SO_2	<0.01	<0.01
		CO	0.11	0.46
VPUMP	Vacuum Pumps (2	PM	0.05	0.21

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	Units)	PM_{10}	0.05	0.21
DSLGEN	Standby Emergency Diesel Generator	PM	0.63	0.16
		PM_{10}	0.63	0.16
		VOC	0.57	0.14
		NO_x	21.51	5.38
		SO_2	0.36	0.09
		CO	4.93	1.23
DSLPMP	Emergency Fire Water Diesel Pump	PM	0.48	0.12
		PM_{10}	0.48	0.12
		VOC	0.50	0.13
		NO_x	6.82	1.71
		SO_2	0.45	0.25
		CO	1.47	0.37
COOLTW-1	Furnace Cooling Tower	PM	<0.01	0.02
		PM_{10}	<0.01	0.02
COOLTW-2	Cooling Tower	PM	0.02	0.09
		PM_{10}	0.02	0.09
COOLTW-3	Compressor Cooling Tower	PM	0.01	0.07
		PM_{10}	0.01	0.07
DTANK-1	Standby Diesel Generator Tank	VOC	<0.01	<0.01
DTANK-2	Fire Water Diesel Tank	VOC	<0.01	<0.01
DTANK-3	Front End Loader Diesel Tank	VOC	<0.01	<0.01

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OWS	Oil Water Separator	VOC	0.23	0.99

(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
HCl - hydrogen chloride
MBTC - monobutyltin trichloride
(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) Includes H_2SO_4 mist.
(7) PM emissions from this source include tin particulate emissions as MBTC.

Dated March 11, 2011