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 Bucket Elevator 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, Slag Silo Baghouse, and Raw Material Distributor Head	PM	0.79	3.15
		PM_{10}	0.75	2.99
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
MB	Mixer Building - Gathering Belt Conveyor Baghouse, Weighed Batch Elevator and Check Scale Baghouse, Cullet Weighed Batch Conveyor Baghouse, Batch Mixer, and 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

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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 Ventilation - Belt Burners (3 Units), Hot End Coating, Distribution Chamber, Forehearths (3 Units), Feeders (6 Units), Glass Forming Machines (3 Units), Abrasive Blaster-Automatic, Abrasive Blaster- Manual, and Shear & Distributor	PM (7)	2.81	12.27
		PM_{10} (7)	1.60	7.02
		$PM_{2.5}$ (7)	0.93	4.05
		VOC	1.41	6.19
		NO_x	3.77	16.53
		SO_2	2.28	11.50
		CO	2.65	11.57
		HCl	0.41	1.80
		MBTC	1.37	6.01
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

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MOLD	Mold Shop Baghouse-Bead Blaster, Grinding and Sanding Tools, and Welding	PM	0.51	2.25
		PM_{10}	0.51	2.25
VAC	Vacuum System	PM	0.06	0.25
		PM_{10}	0.06	0.25
		VOC	<0.01	<0.01
		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, Marsh Coders (4 units), and Cold End Coating	PM	0.12	0.54
		PM_{10}	0.12	0.54
		VOC	2.56	11.20
		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 -Cullet Scale Baghouse	PM	6.73	4.84
		PM_{10}	2.73	2.12
BOOTH-1	Graphite Booth	PM	0.08	0.35
		PM_{10}	0.08	0.35
		VOC	0.02	0.09
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 Units)	PM	0.05	0.21
		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

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		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	Cullet Cooling Tower	PM	0.02	0.09
		PM_{10}	0.02	0.09
COOLTW-3	Compressor Cooling Tower #1	PM	0.01	0.07
		PM_{10}	0.01	0.07
COOLTW-4	Compressor Cooling Tower #2	PM	<0.01	<0.01
		PM_{10}	<0.01	<0.01
		$PM_{2.5}$	<0.01	<0.01
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
OWS	Oil Water Separator	VOC	0.23	0.99
CONV6	Mixed Batch Transfer Conveyor	PM	0.01	0.04
		PM_{10}	<0.01	0.02
		$PM_{2.5}$	<0.01	0.02
PW-4	Proceco Parts Washer with Heaters	VOC	0.08	0.33
Crush	Cullet Crusher	PM	0.08	0.35

(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

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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.

Date: DRAFT