Emission Sources - Maximum Allowable Emission Rates

Permit Number 162531

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)
STM-01-01	Panel Stamping	VOC	<0.01	<0.01
CAS-01-01 through CAS-01-10	Casting Furnaces Cap	VOC	0.69	3.02
		PM_{10}	1.22	5.34
		$PM_{2.5}$	1.22	5.34
		NO_x	8.24	36.09
		CO	4.73	20.72
		SO_2	0.08	0.33
CAS-01-21 through CAS-01-30	Metal Trimming Machines Cap	PM_{10}	<0.10	0.20
		$PM_{2.5}$	<0.10	0.20
SND-01	Sanding	PM_{10}	0.04	0.18
BIW-01-01 through BIW-01-15	Body in White Sealers and Adhesives	VOC	1.08	2.36
PPT-01a, PPT-02a, PPT-03a	Pretreat Line A	VOC	0.26	0.56
		Nitric Acid	0.13	0.28
		Hydrofluoric Acid	0.02	0.03
PPT-01b, PPT-02b, PPT-03b	Pretreat Line B	VOC	0.26	0.56
		Nitric Acid	0.13	0.28
		Hydrofluoric Acid	0.02	0.03
ECT-03a	E-coat Sanding Line A	PM_{10}	0.21	0.55
		$PM_{2.5}$	0.21	0.55
ECT-03b	E-coat Sanding Line B	PM_{10}	0.21	0.55
		$PM_{2.5}$	0.21	0.55
ECT-05-PMa	E-Coat Line A (Heavy Sanding)	PM_{10}	<0.01	0.04
		$PM_{2.5}$	<0.01	0.04

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ECT-05-PMb	E-Coat Line B (Heavy Sanding)	PM_{10}	<0.01	0.04
		$PM_{2.5}$	<0.01	0.04
TO-01	Line A and Line B E-coat Dip Tank, E-coat Oven, Heated Flash Basecoat 1 Booth, Basecoat 2, Booth, Clearcoat Booth, Clearcoat Oven and Purge Solvent	VOC	22.36	44.24
		Exempt Solvent	0.25	0.55
TO-01	Line A and Line B E-coat Oven Burners, E-coat Air Supply Air Heaters, Topcoat Oven Burners, Topcoat Air Supply Heaters, Concentrator Burners, and Redundant RTO Burners 78.82 MMBtu/hr	VOC	0.42	1.86
		PM_{10}	0.59	2.57
		$PM_{2.5}$	0.59	2.57
		NO_x	5.74	28.16
		CO	13.92	60.98
		SO_2	0.05	0.20
ZEO-1a	Line A Basecoat Booth 1, Basecoat Booth 2, Heated Flash, Purge, and Clearcoat Booth	VOC	20.14	43.52
		Exempt Solvent	0.33	0.72
		PM_{10}	0.04	0.16
		$PM_{2.5}$	0.01	0.03
ZEO-1b	Line B Basecoat Booth 1, Basecoat Booth 2, Heated Flash, Purge, and Clearcoat Booth	VOC	20.14	43.52
		Exempt Solvent	0.33	0.72
		PM_{10}	0.04	0.16
		$PM_{2.5}$	0.01	0.03
BRN-01	Heated Flash Line A - Burner 1, 2 and 3 4.08 MMBtu/hr	VOC	0.02	0.10
		PM_{10}	0.03	0.13
		$PM_{2.5}$	0.03	0.13
		NO_x	0.30	1.31
		CO	1.19	5.22
		SO_2	<0.01	0.01
BRN-02	Dehumidifier Line A Air Supply Heater 1.02 MMBtu/hr	VOC	<0.01	0.02
		PM_{10}	<0.01	0.03
		$PM_{2.5}$	<0.01	0.03

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		NO_x	0.07	0.33
		CO	0.30	1.30
		SO_2	<0.01	0.01
BRN-03	Heated Flash Line B – Burner 1, 2 and 3 4.08 MMBtu/hr	VOC	0.02	0.10
		PM_{10}	0.03	0.13
		$PM_{2.5}$	0.03	0.13
		NO_x	0.30	1.31
		CO	1.19	5.22
		SO_2	<0.01	0.01
BRN-04	Dehumidifier Line B Air Supply Heater 1.02 MMBtu/hr	VOC	<0.01	0.02
		PM_{10}	<0.01	0.03
		$PM_{2.5}$	<0.01	0.03
		NO_x	0.07	0.33
		CO	0.30	1.30
		SO_2	<0.01	0.01
BRN-06	Air Supply Houses- ASH-01 through ASH-07, ASH Paint Mix Room, ASH Paint Hospital, ASH Clean Room 52.92 MMBtu/hr	VOC	0.29	1.25
		PM_{10}	0.39	1.73
		$PM_{2.5}$	0.39	1.73
		NO_x	3.86	16.89
		CO	9.63	42.19
		SO_2	0.03	0.14
CLL-01	Cell Dust Collection System 1	PM_{10}	0.05	0.23
		$PM_{2.5}$	0.05	0.23
CLL-02	Cell Dust Collection System 2	PM_{10}	0.04	0.17
		$PM_{2.5}$	0.04	0.17
CLL-03	Cell Dust Collection System 3	PM_{10}	<0.01	<0.01
		$PM_{2.5}$	<0.01	<0.01
CLL-04	Cell Dust Collection System 4	PM_{10}	<0.01	<0.01
		$PM_{2.5}$	<0.01	<0.01

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CLL-05	Cell Assembly	VOC	0.24	1.03
		Exempt Solvent	0.39	1.73
CTU-01	Cooling Tubes	VOC	<0.01	<0.01
BTM-01	Battery Module Assembly	VOC	3.03	5.26
INV-01	Inverter lines	VOC	0.27	1.18
STR-01-01	Stator Lines	VOC	1.67	7.33
BRO-01	Brazing Oven	VOC	0.02	0.07
GAA-07	General Assembly Area Adhesives	VOC	0.84	1.84
GAA-01	Windshield Washer Fluid Tank No. 1	VOC	2.41	0.02
GAA-02	Windshield Washer Fluid Tank No. 2	VOC	2.41	0.02
GAA-03	Windshield Washer Fluid Tank No. 3	VOC	0.36	<0.01
GAA-04	Coolant Tank No. 1	VOC	1.43	0.01
GAA-05	Brake Fluid Tank No. 1	VOC	0.06	<0.01
GAA-06	General Assembly Tote Filling	VOC	2.89	1.47
PRA-01a and PRA-01b	Paint Repair Area (Offline – Paint Shop)	VOC	0.29	1.26
		Exempt Solvent	0.07	0.31
		PM_{10}	<0.01	0.01
		$PM_{2.5}$	<0.01	<0.01
PRA-02a and PRA-02b	Paint Repair Area (General Assembly)	VOC	0.29	1.26
		Exempt Solvent	0.07	0.31
		PM_{10}	<0.01	0.01
		$PM_{2.5}$	<0.01	<0.01
WIP-01	Plantwide Wipe Cleaning – 2 Lines	VOC	9.45	41.40
BLR-01-01	Boiler No. 1 6.0 MMBtu/hr	VOC	0.03	0.14
		PM_{10}	0.04	0.20
		$PM_{2.5}$	0.04	0.20
		NO_x	0.07	0.29

Emission Sources - Maximum Allowable Emission Rates

		CO	0.49	2.16
		SO_2	<0.01	0.02
BLR-01-02	Boiler No. 2 6.0 MMBtu/hr	VOC	0.03	0.14
		PM_{10}	0.04	0.20
		$PM_{2.5}$	0.04	0.20
		NO_x	0.07	0.29
		CO	0.49	2.16
		SO_2	<0.01	0.02
BLR-01-03	Boiler No. 3 6.0 MMBtu/hr	VOC	0.03	0.14
		PM_{10}	0.04	0.20
		$PM_{2.5}$	0.04	0.20
		NO_x	0.07	0.29
		CO	0.49	2.16
		SO_2	<0.01	0.02
BLR-01-04	Boiler No. 4 6.0 MMBtu/hr	VOC	0.03	0.14
		PM_{10}	0.04	0.20
		$PM_{2.5}$	0.04	0.20
		NO_x	0.07	0.29
		CO	0.49	2.16
		SO_2	<0.01	0.02
BLR-01-05	Boiler No. 5 6.0 MMBtu/hr	VOC	0.03	0.14
		PM_{10}	0.04	0.20
		$PM_{2.5}$	0.04	0.20
		NO_x	0.07	0.29
		CO	0.49	2.16
		SO_2	<0.01	0.02
BLR-01-06	Boiler No. 6 6.0 MMBtu/hr	VOC	0.03	0.14
		PM_{10}	0.04	0.20
		$PM_{2.5}$	0.04	0.20

Emission Sources - Maximum Allowable Emission Rates

		NO_x	0.07	0.29
		CO	0.49	2.16
		SO_2	<0.01	0.02
BLR-01-07	Boiler No. 7 6.0 MMBtu/hr	VOC	0.03	0.14
		PM_{10}	0.04	0.20
		$PM_{2.5}$	0.04	0.20
		NO_x	0.07	0.29
		CO	0.49	2.16
		SO_2	<0.01	0.02
BLR-01-08	Boiler No. 8 6.0 MMBtu/hr	VOC	0.03	0.14
		PM_{10}	0.04	0.20
		$PM_{2.5}$	0.04	0.20
		NO_x	0.07	0.29
		CO	0.49	2.16
		SO_2	<0.01	0.02
CT-1	Cooling Tower	PM	0.20	0.87
		PM_{10}	0.20	0.87
		$PM_{2.5}$	0.10	0.43
WWTP-1	Wastewater Treatment Plant	VOC	0.15	0.67
		PM_{10}	<0.01	<0.01
		$PM_{2.5}$	<0.01	<0.01
		Exempt Solvent	0.04	0.17
MSS-01-01	MSS for Basecoat/Topcoat Filter Changeout	VOC	0.07	0.30
		Exempt Solvent	0.03	0.12
TO-01	MSS for Booth Cleaning	VOC	1.43	6.23
		Exempt Solvent	0.58	2.54
PILOT BLD FUG	Startup and Pilot Build - Coating Lines Without Abatement	VOC	55.24	0.93
		PM_{10}	0.02	<0.01
		$PM_{2.5}$	<0.01	<0.01

Emission Sources - Maximum Allowable Emission Rates

CAS-01-01 and CAS-01-02	Casting Furnaces – 2 Total During Startup/Shakedown for no more than 120 Days	VOC	0.14	0.20
		PM_{10}	0.20	0.29
		$PM_{2.5}$	0.20	0.29
		NO_x	1.64	2.36
		CO	0.94	1.35
		SO_2	0.02	0.03
CAS-01-01 through CAS-01-10	Casting Furnace During Filtration System Bypass for Filtration System Maintenance	VOC	0.26	0.02
		PM_{10}	0.36	0.03
		$PM_{2.5}$	0.36	0.03
		NO_x	3.09	0.23
		CO	1.77	0.13
		SO_2	0.03	<0.01
All EPNs	All Sources at the Site	Individual HAP	---	<10
		Total HAP	---	<25

(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) Exempt Solvent - Those carbon compounds or mixtures of carbon compounds used as solvents which have been excluded from the definition of volatile organic compound.
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
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) Products of combustion.
(7) Includes planned maintenance, startup and shutdown activities.

Date: DRAFT FEB 2021