Emission Sources - Maximum Allowable Emission Rates

Permit Number 19793

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-DRYER	Flash Dryer Baghouse Stack	PM	1.50	4.93
		PM_{10}	1.50	4.93
		$PM_{2.5}$	1.50	4.93
		SO_2	0.25	0.83
		NO_x	1.76	5.80
		CO	1.48	4.87
		VOC	0.10	0.32
		NiO(5)	0.06	0.21
		V_2O_5(5)	0.04	0.12
		Al_2O_3(5)	1.03	3.40
		As_2O_3(5)	< 0.01	< 0.01
		CoO(5)	0.01	0.02
		MoO_3(5)	0.01	0.02
		PbO(5)	< 0.01	< 0.01
BV-AC	Alumina Concentrate Bin Vent	PM	0.02	0.08
		PM_{10}	0.02	0.08
		$PM_{2.5}$	0.02	0.08
		NiO(5)	< 0.01	< 0.01
		V_2O_5(5)	< 0.01	< 0.01
		Al_2O_3(5)	0.01	0.05
		As_2O_3(5)	< 0.01	< 0.01
		CoO(5)	< 0.01	< 0.01
		MoO_3(5)	< 0.01	< 0.01
		PbO(5)	< 0.01	< 0.01
BVCOALLIME	Coal Bin Vent	PM	0.02	0.08
		PM_{10}	0.02	0.08
		$PM_{2.5}$	0.02	0.08

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EAFSCRUB	Electric Arc Furnace Scrubber Stack	PM	1.47	6.44
		PM_{10}	1.47	6.44
		$PM_{2.5}$	1.47	6.44
		SO_2	6.41	9.99
		CO	5.56	24.30
		NO_x	2.55	11.16
		VOC	1.34	5.85
		NiO(5)	0.01	0.04
		V_2O_5(5)	< 0.01	0.02
		Al_2O_3(5)	0.35	1.50
		As_2O_3(5)	0.01	0.06
		CoO(5)	0.01	0.03
		MoO_3(5)	0.01	0.06
		PbO(5)	0.04	0.19
BH-BLEND	Electric Arc Furnace Baghouse Stack	PM	5.14	5.78
		PM_{10}	5.14	5.78
		$PM_{2.5}$	5.14	5.78
		NiO(5)	0.03	0.04
		V_2O_5(5)	0.02	0.02
		Al_2O_3(5)	1.22	1.37
		As_2O_3(5)	0.05	0.06
		CoO(5)	0.03	0.01
		MoO_3(5)	0.05	0.06
		PbO(5)	0.15	0.17
FUG-AC	AC Loading	VOC	0.09	0.13
		PM	0.01	0.03
		PM_{10}	< 0.01	0.01
		$PM_{2.5}$	< 0.01	< 0.01
		NiO(5)	< 0.01	< 0.01
		V_2O_5(5)	< 0.01	< 0.01
		Al_2O_3(5)	< 0.01	0.02
		As_2O_3(5)	< 0.01	< 0.01
		CoO(5)	< 0.01	< 0.01
		MoO_3(5)	< 0.01	< 0.01
		PbO(5)	< 0.01	< 0.01
CT-14A	Cooling Tower	PM	0.02	0.10

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		PM_{10}	0.02	0.10
		$PM_{2.5}$	0.02	0.10
CT-14B	Cooling Tower	PM	0.02	0.10
		PM_{10}	0.02	0.10
		$PM_{2.5}$	0.02	0.10
CT-34AB	Cooling Tower	PM	0.05	0.20
		PM_{10}	0.05	0.20
		$PM_{2.5}$	0.05	0.20
CT-08AB	Cooling Tower	PM	0.02	0.10
		PM_{10}	0.02	0.10
		$PM_{2.5}$	0.02	0.10
ENGITGEN	Natural Gas Emergency IT Backup Generator	VOC	0.27	0.01
		NO_x	1.05	0.03
		CO	8.70	0.23
		SO_2	< 0.01	<0.01
		PM	0.12	<0.01
		PM_{10}	0.12	<0.01
		$PM_{2.5}$	0.12	<0.01
ENG-EAF	EAF Generator	VOC	2.27	0.11
		NO_x	9.51	0.48
		CO	5.17	0.26
		SO_2	1.85	0.09
		PM	0.30	0.01
		PM_{10}	0.30	0.01
		$PM_{2.5}$	0.30	0.01

(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
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
C - carbon
NiO - nickel oxide
V_2O_5 - vanadium pentoxide
Al_2O_3 - aluminum oxide

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As_2O_3 - arsenic trioxide
CoO - cobalt oxide
MoO_3 - molybdenum trioxide
PbO - lead oxide

(4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.
(5) These emissions are included in the total particulate at this source.
(6) Maximum tapping and pouring operation of 2,100 Hrs/yr.

Date: March 25, 2021