Emission Sources - Maximum Allowable Emission Rates

Permit Number 156537

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 (6)	
			lbs/hour	TPY (4)
RE-01	Roaster Afterburner Stack	PM	0.05	0.16
		PM_{10}	0.05	0.16
		$PM_{2.5}$	0.05	0.16
		NO_x	0.05	0.14
		VOC	0.02	0.06
		CO	0.25	0.74
		SO_2	0.01	0.06
		CH_3CHO	<0.01	<0.01
		CH_2O	<0.01	<0.01
		CH_2CHCHO	<0.01	<0.01
		CH_3COOH	0.01	0.02
RE-02	Roaster Afterburner Stack	PM	0.05	0.16
		PM_{10}	0.05	0.16
		$PM_{2.5}$	0.05	0.16
		NO_x	0.05	0.14
		VOC	0.02	0.06
		CO	0.25	0.74
		SO_2	0.01	0.06
		CH_3CHO	<0.01	<0.01
		CH_2O	<0.01	<0.01
		CH_2CHCHO	<0.01	<0.01
		CH_3COOH	0.01	0.02
RE-03	Roaster Afterburner Stack	PM	0.05	0.16
		PM_{10}	0.05	0.16

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (6)	
			lbs/hour	TPY (4)
		$PM_{2.5}$	0.05	0.16
		NO_x	0.05	0.14
		VOC	0.02	0.06
		CO	0.25	0.74
		SO_2	0.01	0.06
		CH_3CHO	<0.01	<0.01
		CH_2O	<0.01	<0.01
		CH_2CHCHO	<0.01	<0.01
		CH_3COOH	0.01	0.02
RE-04	Roaster Afterburner Stack	PM	0.05	0.16
		PM_{10}	0.05	0.16
		$PM_{2.5}$	0.05	0.16
		NO_x	0.05	0.14
		VOC	0.02	0.06
		CO	0.25	0.74
		SO_2	0.01	0.06
		CH_3CHO	<0.01	<0.01
		CH_2O	<0.01	<0.01
		CH_2CHCHO	<0.01	<0.01
		CH_3COOH	0.01	0.02
RE-05	Roaster Afterburner Stack	PM	0.05	0.16
		PM_{10}	0.05	0.16
		$PM_{2.5}$	0.05	0.16
		NO_x	0.05	0.14
		VOC	0.02	0.06
		CO	0.25	0.74
		SO_2	0.01	0.06

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (6)	
			lbs/hour	TPY (4)
		CH_3CHO	<0.01	<0.01
		CH_2O	<0.01	<0.01
		CH_2CHCHO	<0.01	<0.01
		CH_3COOH	0.01	0.02
CE-01	Cooler Cyclone Stack	PM	0.01	0.04
		PM_{10}	0.01	0.02
		$PM_{2.5}$	<0.01	0.01
CE-02	Cooler Cyclone Stack	PM	0.01	0.04
		PM_{10}	0.01	0.02
		$PM_{2.5}$	<0.01	0.01
CE-03	Cooler Cyclone Stack	PM	0.01	0.04
		PM_{10}	0.01	0.02
		$PM_{2.5}$	<0.01	0.01
CE-04	Cooler Cyclone Stack	PM	0.01	0.04
		PM_{10}	0.01	0.02
		$PM_{2.5}$	<0.01	0.01
CE-05	Cooler Cyclone Stack	PM	0.01	0.04
		PM_{10}	0.01	0.02
		$PM_{2.5}$	<0.01	0.01
NR-01	Roaster Afterburner Stack	PM	0.11	0.24
		PM_{10}	0.11	0.24
		$PM_{2.5}$	0.11	0.24
		NO_x	0.09	0.20
		VOC	0.04	0.09
		CO	0.48	1.08
		SO_2	0.01	0.06
		CH_3CHO	<0.01	<0.01

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (6)	
			lbs/hour	TPY (4)
		CH_2O	<0.01	<0.01
		CH_2CHCHO	<0.01	<0.01
		CH_3COOH	0.02	0.04
NR-02	Roaster Afterburner Stack	PM	0.11	0.24
		PM_{10}	0.11	0.24
		$PM_{2.5}$	0.11	0.24
		NO_x	0.09	0.20
		VOC	0.04	0.09
		CO	0.48	1.08
		SO_2	0.01	0.06
		CH_3CHO	<0.01	<0.01
		CH_2O	<0.01	<0.01
		CH_2CHCHO	<0.01	<0.01
		CH_3COOH	0.02	0.04
NR-03	Roaster Afterburner Stack	PM	0.11	0.24
		PM_{10}	0.11	0.24
		$PM_{2.5}$	0.11	0.24
		NO_x	0.09	0.20
		VOC	0.04	0.09
		CO	0.48	1.08
		SO_2	0.01	0.06
		CH_3CHO	<0.01	<0.01
		CH_2O	<0.01	<0.01
		CH_2CHCHO	<0.01	<0.01
		CH_3COOH	0.02	0.04
NR-04	Roaster Afterburner Stack	PM	0.11	0.24
		PM_{10}	0.11	0.24

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (6)	
			lbs/hour	TPY (4)
		$PM_{2.5}$	0.11	0.24
		NO_x	0.09	0.20
		VOC	0.04	0.09
		CO	0.48	1.08
		SO_2	0.01	0.06
		CH_3CHO	<0.01	<0.01
		CH_2O	<0.01	<0.01
		CH_2CHCHO	<0.01	<0.01
		CH_3COOH	0.02	0.04
NC-01	Cooler Filter Vent	PM	0.02	0.06
		PM_{10}	0.01	0.03
		$PM_{2.5}$	0.01	0.01
NC-02	Cooler Filter Vent	PM	0.02	0.06
		PM_{10}	0.01	0.03
		$PM_{2.5}$	0.01	0.01
NC-03	Cooler Filter Vent	PM	0.02	0.06
		PM_{10}	0.01	0.03
		$PM_{2.5}$	0.01	0.01
NC-04	Cooler Filter Vent	PM	0.02	0.06
		PM_{10}	0.01	0.03
		$PM_{2.5}$	0.01	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
CH_3CHO - acetaldehyde

Emission Sources - Maximum Allowable Emission Rates

CH_2O - formaldehyde
CH_2CHCHO - acrolein
CH_3COOH - acetic acid

(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) Planned startup and shutdown emissions are included. Maintenance activities are not authorized by this permit.

Date: March 24, 2020