Emission Sources - Maximum Allowable Emission Rates

Permit Number 3908B

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)
EF-206	Train 5 & 6 Cooling Tower (6)	VOC	0.59	2.58
		Propylene	0.46	2.01
		PM	0.21	0.92
		PM_{10}	0.08	0.37
		$PM_{2.5}$	<0.01	<0.01
ES-201	Package Boiler Number 1 (7)	VOC	0.31	0.98
		NO_x	2.16	6.62
		SO_2	0.01	0.03
		PM	0.43	1.35
		PM_{10}	0.43	1.35
		$PM_{2.5}$	0.43	1.35
		CO	1.09	3.33
ES-202	Standby Incinerator (7)	VOC	0.36	-
		NO_x	7.25	-
		SO_2	0.03	-
		PM	2.46	-
		PM_{10}	2.46	-
		$PM_{2.5}$	2.46	-
		CO	14.81	-
		HCl	0.03	-

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ES-203	Waste Heat Boiler (7)	VOC	0.36	-
		NO_x	7.25	-
		SO_2	0.03	-
		PM	2.46	-
		PM_{10}	2.46	-
		$PM_{2.5}$	2.46	-
		CO	14.81	-
		HCl	0.03	-
ES-202 and ES-203	Waste Heat Boiler and Standby Incinerator (7)	VOC	-	1.75
		NO_x	-	19.71
		SO_2	-	0.08
		PM	-	9.47
		PM_{10}	-	9.47
		$PM_{2.5}$	-	9.47
		CO	-	11.43
		HCl	-	0.10
ES-205	North Flare (6) (8)	VOC	27.12	8.36
		NO_x	4.68	3.55
		SO_2	0.01	0.01
		CO	23.85	18.08
		Propylene	25.76	8.23
		Ethylene	6.78	1.19
	North Flare (MSS)	VOC	78.51	-
		NO_x	12.83	-
		SO_2	0.01	-

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		CO	65.35	-
		Propylene	73.28	-
		Ethylene	8.90	-
ES-215	North Thermal Oxidizer (6)	VOC	0.17	0.36
		NO_x	5.10	10.98
		SO_2	0.01	0.01
		CO	2.84	6.11
		PM	0.34	0.74
		PM_{10}	0.34	0.74
		$PM_{2.5}$	0.34	0.74
		Propylene	0.17	0.36
		Ethylene	0.17	0.36
ES-206	Package Boiler BO-4 (60 MMBtu/hr Gas Fired Boiler) (7)	VOC	0.35	1.38
		NO_x	1.20	4.73
		SO_2	0.01	0.04
		PM	0.48	1.90
		PM_{10}	0.48	1.90
		$PM_{2.5}$	0.48	1.90
		CO	4.72	18.61
EV-201A	Carlot Silo Blender Bag Filter (6)	VOC	1.17	0.84
		Propylene	0.91	0.66
		PM	0.29	0.51
		PM_{10}	0.29	0.51
		$PM_{2.5}$	0.29	0.51
EV-201B	Carlot Silo Blender Bag Filter (6)	VOC	1.17	0.84

Emission Sources - Maximum Allowable Emission Rates

		Propylene	0.91	0.66
		PM	0.29	0.51
		PM_{10}	0.29	0.51
		$PM_{2.5}$	0.29	0.51
EV-201C	Carlot Silo Blender Bag Filter (6)	VOC	1.17	0.84
		Propylene	0.91	0.66
		PM	0.29	0.51
		PM_{10}	0.29	0.51
		$PM_{2.5}$	0.29	0.51
EV-201D	Carlot Silo Blender Bag Filter (6)	VOC	1.17	0.84
		Propylene	0.91	0.66
		PM	0.29	0.51
		PM_{10}	0.29	0.51
		$PM_{2.5}$	0.29	0.51
EV-208	Additive Feed Hopper Vent Filter	PM	0.01	0.01
		PM_{10}	0.01	0.01
		$PM_{2.5}$	0.01	0.01
EV-209A	Pellet Dryer Exhaust (6)	VOC	0.77	1.69
		Propylene	0.60	1.32
EV-209B	Pellet Dryer Exhaust (6)	VOC	0.77	1.69
		Propylene	0.60	1.32
EV-211	Cooling Water Additive Tanks	VOC	0.68	<0.01
EV-212	Boiler Water Additive Tanks	VOC	0.37	<0.01
F2	Fugitives (5) (6)	VOC	2.61	11.44
		Propylene	1.88	8.24

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EV-276-BP5	Train 5 Fluff Handling Collection System Bypass (MSS Operations) (6)	VOC	1.13	0.25
		Propylene	0.85	0.19
		PM	0.02	0.09
		PM_{10}	0.01	0.01
		$PM_{2.5}$	0.01	0.01
EV-276-BP6	Train 6 Fluff Handling Collection System Bypass (MSS Operations) (6)	VOC	1.13	0.25
		Propylene	0.85	0.19
		PM	0.02	0.09
		PM_{10}	0.01	0.01
		$PM_{2.5}$	0.01	0.01
MSS-TR5/6	Trains 5 and 6 MSS	VOC	24.32	0.08
EV-V175	Peroxide Tank	VOC	<0.01	<0.01
EV-V18	Mineral Oil Tank	VOC	<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
HCl - hydrogen chloride

(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) Propylene and ethylene are included in VOC allowables.

(7) Emission limits include normal and MSS operations.

(8) The hourly emission rates apply to routine (non-MSS) operation. The hourly emission rate limits during MSS are designated (MSS). The annual emission rate limits apply to all operations (routine and MSS).

Date: October 24, 2019