Emission Sources - Maximum Allowable Emission Rates

Permit Number 171518

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)
BOILER1	Boiler #1	PM	0.18	0.77
		PM_{10}	0.16	0.68
		$PM_{2.5}$	0.13	0.56
		NO_x	2.97	12.93
		NO_x (MSS) (6)	18.57	-
		SO_2	0.18	0.78
		CO	6.79	29.52
		CO (MSS) (6)	11.31	-
		VOC (7)	1.64	7.18
		NH_3	1.38	6.02
TURBINE	Turbine	PM	5.68	23.70
		PM_{10}	5.68	23.70
		$PM_{2.5}$	5.68	23.70
		NO_x	3.26	13.58
		SO_2	7.43	30.98
		CO	3.97	16.54
		VOC (7)	1.41	5.88
		NH_3	7.27	30.33
BYPASS	Turbine Bypass	PM	5.00	1.05
		PM_{10}	5.00	1.05
		$PM_{2.5}$	5.00	1.05
		NOx	9.75	2.05
		SO2	6.14	1.29
		CO	24.74	5.19

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		VOC (7)	8.82	1.85
MISTVENT	Lube Oil Circulation Turbine Mist Eliminator Vent (5)	PM	0.09	0.40
		PM_{10}	0.09	0.40
		$PM_{2.5}$	0.09	0.40
PM01, PM02, PM03, PM04, PM05, PM06, PMWET1, PMWET2, PMWET3, PMWET4, PM11, PM12, PM13, PM14, PM15, PM16, PM31, PM32	Paper Machine	PM	3.68	16.12
		PM_{10}	2.81	12.31
		$PM_{2.5}$	2.23	9.76
		VOC (7)	8.54	37.40
HEATER1	Precoat Calendar Heater No. 1	PM	<0.01	0.01
		PM_{10}	<0.01	0.01
		$PM_{2.5}$	<0.01	0.01
		NO_x	0.20	0.86
		SO_2	<0.01	0.01
		CO	<0.01	<0.01
		VOC (7)	0.03	0.13
HEATER2	Precoat Calendar Heater No. 2	PM	<0.01	0.01
		PM_{10}	<0.01	0.01
		$PM_{2.5}$	<0.01	0.01
		NO_x	0.10	0.44
		SO_2	<0.01	0.01
		CO	<0.01	<0.01
		VOC (7)	0.02	0.07
DRYER1A, DRYER1B	Dryer No. 1	PM	0.02	0.07
		PM_{10}	0.01	0.06
		$PM_{2.5}$	0.01	0.05
		NO_x	2.45	10.73
		SO_2	0.02	0.07
		CO	2.26	9.90
		VOC (7)	0.15	0.65

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DRYER2	Dryer No. 2	PM	<0.01	0.02
		PM_{10}	<0.01	0.01
		$PM_{2.5}$	<0.01	0.01
		NO_x	0.20	0.88
		SO_2	<0.01	0.02
		CO	0.50	2.19
		VOC (7)	0.03	0.14
DRYER3	Dryer No. 3	PM	<0.01	0.02
		PM_{10}	<0.01	0.02
		$PM_{2.5}$	<0.01	0.01
		NO_x	0.25	1.10
		SO_2	<0.01	0.02
		CO	0.62	2.73
		VOC (7)	0.04	0.18
DRYER4	Dryer No. 4	PM	<0.01	0.02
		PM_{10}	<0.01	0.02
		$PM_{2.5}$	<0.01	0.01
		NO_x	0.01	0.03
		SO_2	<0.01	0.02
		CO	0.61	2.69
		VOC (7)	0.04	0.18
DRYER5	Dryer No. 5	PM	<0.01	0.02
		PM_{10}	<0.01	0.02
		$PM_{2.5}$	<0.01	0.01
		NO_x	0.24	1.05
		SO_2	<0.01	0.02
		CO	0.62	2.73
		VOC (7)	0.04	0.18
DRYER6	Dryer No. 6	PM	<0.01	0.02

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		PM_{10}	<0.01	0.02
		$PM_{2.5}$	<0.01	0.01
		NO_x	0.24	1.05
		SO_2	<0.01	0.02
		CO	0.62	2.73
		VOC (7)	0.04	0.18
DRYER7	Dryer No. 7	PM	<0.01	0.02
		PM_{10}	<0.01	0.02
		$PM_{2.5}$	<0.01	0.01
		NO_x	0.22	0.96
		SO_2	<0.01	0.02
		CO	0.62	2.73
		VOC (7)	0.04	0.18
COMFHEAT1, COMFHEAT2, COMFHEAT3, COMFHEAT4	Comfort Heating System	PM	0.50	2.19
		PM_{10}	0.50	2.19
		$PM_{2.5}$	0.50	2.19
		NO_x	1.20	5.26
		SO_2	0.05	0.22
		CO	1.80	7.88
		VOC (7)	0.20	0.88
FIREPUMP	Fire Pump (Diesel)	PM	0.06	<0.01
		PM_{10}	0.06	<0.01
		$PM_{2.5}$	0.06	<0.01
		NO_x	1.13	0.06
		SO_2	0.38	0.02
		CO	1.06	0.05
		VOC (7)	0.09	<0.01
CT1, CT2, CT3	Cooling Tower	PM	0.23	0.99
		PM_{10}	0.23	0.99

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		$PM_{2.5}$	0.23	0.99
STARCH	Starch Silo	PM	0.18	0.78
		PM_{10}	0.18	0.78
		$PM_{2.5}$	0.18	0.78
FL4, FL5	WWTS	VOC	0.11	0.49
FL1, FL2, FL3	Pulp/OCC Processing	VOC (7)	0.28	1.21
NH3P FUG	Ammonia Tank Piping (5)	NH_3	<0.01	0.01
DIEP FUG	Diesel Tank Piping (5)	VOC	0.02	0.07

(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
NH_3 - ammonia
(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) Annual allowable emission rates for CO and NO_x during MSS operation are included in the annual routine emission rates.
(7) HAPs are included in VOC or all particulate matter emissions, as appropriate

Date: DRAFT