Emission Sources - Maximum Allowable Emission Rates

Permit Numbers 26002 and PSDTX888M2

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)
RTOWEST	West Dryer WESP/RTO Stack (3 Dryers, 3 WESPs, and 1 RTO)	VOC (as C_3H_8)	5.25	24.60
		NO_X	43.22	202.52
		SO_2	1.34	5.87
		PM	11.10	52.00
		PM_{10}	11.10	52.00
		$PM_{2.5}$	11.10	52.00
		CO	112.88	528.94
		HCHO	1.00	4.71
RTOEAST	East Dryer WESP/RTO Stack (3 Dryers, 3 WESPs, and 1 RTO)	VOC (as C_3H_8)	5.25	24.60
		NO_X	43.22	202.52
		SO_2	1.34	11.74
		PM	11.10	52.00
		PM_{10}	11.10	52.00
		$PM_{2.5}$	11.10	52.00
		CO	112.88	528.94
		HCHO	1.00	4.71
RTOWEST & RTOEAST (7)	Combined Dryer WESP/RTO Stacks (4 Dryers, 4 WESPs, and 2 RTOs)	VOC (as C_3H_8)	7.00	24.60
		NO_X	57.62	202.52
		SO_2	2.68	11.74
		PM	14.80	52.00

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		PM_{10}	14.80	52.00
		$PM_{2.5}$	14.80	52.00
		CO	150.50	528.94
		HCHO	1.34	4.71
DRYER MSS1	Dryer 1 Bypass Stack	VOC (as C_3H_8)	33.75	3.38
		NO_X	2.92	0.29
		PM	3.71	0.37
		PM_{10}	3.71	0.37
		$PM_{2.5}$	3.71	0.37
		CO	22.08	2.21
		HCHO	1.89	0.19
DRYER MSS2	Dryer 2 Bypass Stack	VOC (as C_3H_8)	33.75	3.38
		NO_X	2.92	0.29
		PM	3.71	0.37
		PM_{10}	3.71	0.37
		$PM_{2.5}$	3.71	0.37
		CO	22.08	2.21
		HCHO	1.89	0.19
RCOPRESS/RTOPRESS	Press RCO/RTO Stack	VOC (as C_3H_8)	4.90	17.68
		NO_X	22.18	80.10
		SO_2	0.01	0.04
		PM	3.83	13.84
		PM_{10}	3.83	13.84
		$PM_{2.5}$	3.83	13.84
		CO	34.24	123.64

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		HCHO	1.73	6.24
		MDI	0.10	0.44
		C_6H_5OH	1.44	5.19
PRESSVENT MSS	Press Bypass Stack	VOC (as C_3H_8)	25.27	0.63
		NO_X	0.37	0.01
		SO_2	0.33	0.01
		PM	4.66	0.12
		PM_{10}	2.33	0.06
		$PM_{2.5}$	2.33	0.06
		CO	0.90	0.02
		HCHO	0.68	0.02
		MDI	0.12	<0.01
		C_6H_5OH	0.34	0.01
S-1	Saw Line Baghouse Stack	VOC	3.45	12.45
		PM	1.15	5.02
		PM_{10}	1.15	5.02
		$PM_{2.5}$	1.15	5.02
		Wood Dust	1.15	5.02
S-1 MSS (8)	Saw Line Bypass (5)	PM	8.06	0.40
		PM_{10}	8.06	0.40
		$PM_{2.5}$	8.06	0.40
		Wood Dust	8.06	0.40
S-2	Aspiration System Baghouse Stack	VOC (C_3H_8)	15.28	55.17
		PM	0.50	2.17
		PM_{10}	0.50	2.17

Emission Sources - Maximum Allowable Emission Rates

		$PM_{2.5}$	0.50	2.17
		Wood Dust	0.50	2.17
		HCHO	0.44	1.60
		MDI	<0.01	0.02
		MeOH	7.27	26.25
		C_6H_5OH	0.01	0.02
S-3/4	Raw Fuel Bin Baghouse Stack	VOC (C_3H_8)	7.70	27.79
		PM	0.46	2.02
		PM_{10}	0.46	2.02
		$PM_{2.5}$	0.46	2.02
		Wood Dust	0.46	2.02
		HCHO	0.06	0.20
		MeOH	0.13	0.46
S-3/4 MSS (8)	Raw Fuel Bin Bypass Stack	PM	3.46	0.35
		PM_{10}	3.46	0.35
		$PM_{2.5}$	3.46	0.35
		Wood Dust	3.46	0.35
S-5	Material Reject Baghouse Stack	VOC (C_3H_8)	2.68	9.67
		PM	1.15	5.02
		PM_{10}	1.15	5.02
		$PM_{2.5}$	1.15	5.02
		Wood Dust	1.15	5.02
		HCHO	0.07	0.26
		MDI	<0.01	<0.01
		MeOH	0.36	1.30

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		C_6H_5OH	<0.01	0.01
S-6B	Tongue And Groove Sander Dust Baghouse Stack	VOC (C_3H_8)	1.56	5.62
		PM	0.90	3.94
		PM_{10}	0.90	3.94
		$PM_{2.5}$	0.90	3.94
		Wood Dust	0.90	3.94
S-7	Sander Dust Receiving Bin Baghouse Stack	VOC (C_3H_8)	1.56	5.62
		PM	0.02	0.07
		PM_{10}	0.02	0.07
		$PM_{2.5}$	0.02	0.07
		Wood Dust	0.02	0.07
S-8	Finish Fuel System Baghouse Stack	VOC (C_3H_8)	6.04	21.81
		PM	0.57	2.48
		PM_{10}	0.57	2.48
		$PM_{2.5}$	0.57	2.48
		Wood Dust	0.57	2.48
		MeOH	0.12	0.42
S-9	Thermal Oil Heater Fuel System Baghouse Stack	VOC (C_3H_8)	1.01	3.64
		PM	0.31	1.35
		PM_{10}	0.31	1.35
		$PM_{2.5}$	0.31	1.35
		Wood Dust	0.31	1.35
		MeOH	0.12	0.07
R-1	PF Tank 1	HCHO	0.02	0.01
R-2	PF Tank 2	HCHO	0.02	0.01

Emission Sources - Maximum Allowable Emission Rates

R-3	MDI Tank 1	MDI	<0.01	<0.01
R-4	MDI Tank 2	MDI	<0.01	<0.01
T-1	Gasoline Tank	VOC	0.29	0.68
T-3	Diesel Tank	VOC	0.09	<0.01
F-1	Fuel Pile (5)	VOC	0.40	1.76
		PM	0.04	0.17
		PM_{10}	0.04	0.17
		$PM_{2.5}$	0.04	0.17
BARK	Bark Handling System (5)	PM	0.10	0.21
		PM_{10}	0.05	0.10
		$PM_{2.5}$	0.01	0.02
FINES	Excess Fuel System (5)	PM	0.04	0.09
		PM_{10}	0.02	0.04
		$PM_{2.5}$	<0.01	0.01
TOH-1 (9)	Thermal Oil Heater Bypass Stack	VOC (as C_3H_8)	0.17	0.76
		NO_X	3.14	13.74
		SO_2	0.02	0.08
		PM	0.24	1.04
		PM_{10}	0.24	1.04
		$PM_{2.5}$	0.24	1.04
		CO	2.64	11.54
GEN-1	Emergency Generator Stack	VOC	0.15	0.02
		NO_X	11.85	1.18
		SO_2	3.24	0.32

Emission Sources - Maximum Allowable Emission Rates

		PM	1.85	0.18
		PM_{10}	1.85	0.18
		$PM_{2.5}$	1.85	0.18
		CO	5.42	0.54
FWP-1	Fire Water Pump	VOC	0.25	0.02
		NO_X	3.51	0.35
		SO_2	1.23	0.12
		PM	0.33	0.03
		PM_{10}	0.33	0.03
		$PM_{2.5}$	0.33	0.03
		CO	1.25	0.12
PB-1	Paint Booth	VOC	1.18	2.58
		PM	1.22	2.67
		PM_{10}	1.22	2.67
		$PM_{2.5}$	1.22	2.67
PB-2	Tongue And Groove Paint Booth	VOC	1.46	3.19
		PM	0.65	1.42
		PM_{10}	0.65	1.42
		$PM_{2.5}$	0.65	1.42
ABRTSTK	Bark Burner Abort Stack	VOC	0.34	0.06
		NO_X	4.60	1.51
		SO_2	0.50	0.07
		PM	11.54	1.61
		PM_{10}	10.34	1.45
		$PM_{2.5}$	8.94	1.25
		CO	4.80	1.73

Emission Sources - Maximum Allowable Emission Rates

(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
PM2.5 - particulate matter equal to or less than 2.5 microns in diameter
CO - carbon monoxide
HCHO - formaldehyde
MDI - methylene-diphenyl-diisocyanate
MeOH - methanol
C_6H_5OH - phenol
(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, as well as planned maintenance activities identified as part of permit amendment issued on September 18, 2014.
(7) Maximum combined emissions for both RTOs.
(8) These are not additional EPNs but represent emissions from EPNs S-1 and S-3/4 during emergency shutdown.
(9) The Thermal Oil Heater vents to the atmosphere through this bypass stack only when firing natural gas. VOCs on this MAERT are quantified as propane (C_3H_8), where noted.

Date: February 23, 2016